

NOKIA

**Nokia
US Microwave Products and Services
Price Catalog - August 2022**



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**Customer: The State of Washington Department of Enterprise
behalf of NASPO ValuePoint Cooperative Purchasing Program
Public Safety Communication Support Equipment 00318**

Notes:

- 1) Prices valid until contract expiration.
- 2) Prices shown for "drop ship" only. Does not include Taxes or any other configurations.
- 3) All Products shipped FOB purchaser's specified destination
- 4) Shipping costs must be mutually agreed between purchaser and Nokia prior to shipment.
- 5) The following items are optional purchases necessary to the functionality of a microwave system (as defined by the purchasing agency), and not an accessory that is optional to the product's intended purpose.

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MICROWAVE EQUIPMENT

Wavence Microwave Solution, an evolution of the 9500 MPR Family

Part No	Description	Spare	NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price
RACKS - Table K					
694-9000-006	Standard Rack, 7' tall, 19" wide	N	\$ 1,075.00	34%	\$ 709.50
1AD014120046	Seismic Rack, 7.0'	N	\$ 2,450.00	34%	\$ 1,617.00
690-1125-003	Rack Extension Kit - 19" rack	N	\$ 1,200.00	34%	\$ 792.00
3EM13317AB	Power Distribution Panel with Fuse Alarm Card included	N	\$ 1,150.00	34%	\$ 759.00
3EM13317AC	Power Distribution Panel with Relay Alarm Card included	N	\$ 1,350.00	34%	\$ 891.00
690-4373-001	Kit AC Outlet	N	\$ 660.00	34%	\$ 435.60
695-1001-006	Aluminum Rack Screw Kit	N	\$ 50.00	34%	\$ 33.00
695-1001-007	Seismic Rack Screw Kit	N	\$ 55.00	34%	\$ 36.30
695-1001-005	Seismic Rack Grounding Kit	N	\$ 150.00	34%	\$ 99.00
694-9004-001	Adjacent Rack Attachment Assy (without rack extensions)	N	\$ 28.75	34%	\$ 18.98
694-9004-002	Adjacent Rack Attachment Assy (with rack extensions)	N	\$ 91.00	34%	\$ 60.06
3EM19148AD	Laptop Shelf Assy	N	\$ 450.00	34%	\$ 297.00
RACKS - Table K1					
695-0905-003	Standard Rack, 7' tall, 23" wide	N	\$ 1,450.00	34%	\$ 957.00
694-8873-005	Adapters for 23", 2 RU (PDU two required)	N	\$ 65.00	34%	\$ 42.90
CABINETS					
3MU00079BA	9500 MPR FLX16WS 1 MSS	N	\$ 21,000.00	34%	\$ 13,860.00
Cabinets - Wall and H-Frame Mounting					
3EM24726AA	Kit, Wall Mount, ATT FTTC	N	\$ 1,619.24	34%	\$ 1,068.70
3MV00159AB	Kit, Wall Mount, FLX16WS, Battery Base	N	\$ 3,320.66	34%	\$ 2,191.64
3MV00159AC	Kit, Wall Mtg, FTTC, 90Deg	N	\$ 4,432.05	34%	\$ 2,925.15
Cabinets - Pole Mounting Kits					
3MV00159AD	Kit, Pole Mnt, FTTC	N	\$ 5,591.92	34%	\$ 3,690.67
3MV00159AE	Kit, Pole Mnt, FTTC, 90Deg	N	\$ 5,953.50	34%	\$ 3,929.31
3MV00159AF	Kit, Banded, Pole Mnt, FTTC	N	\$ 5,075.16	34%	\$ 3,349.61
Cabinets - Pad Mount Kits					
3MV00159AH	Kit, ASSY, Plinth, 4" High, FTTC	N	\$ 2,989.48	34%	\$ 1,973.06
3MV00159AJ	Kit, ASSY, Plinth, 14" High, FTTC	N	\$ 3,242.15	34%	\$ 2,139.82
3MV00159AK	ASSY, Plate, Anchor, FLX, FTTC	N	\$ 2,276.70	34%	\$ 1,502.62
Cabinets - MPT-HL Flex 25					
3MU00119CC	9500 MPR FLX25 MPT-HL Cabinet with MSS	N	\$ 54,644.00	34%	\$ 36,065.04
Cabinets - MPT-HL Flex 25 Mounting Option					
3MU00127AA	Flex25 14" Plinth Base	N	\$ 4,460.85	34%	\$ 2,944.16
3MU00128AA	Flex25 Pole Mount Kit	N	\$ 5,800.00	34%	\$ 3,828.00
Cabinets - Eyebolt FRU Kit					
MSS SHELF OPTIONS - Table A					
1AB405070001	DS1 Patch Panel D1M-1C2036	N	\$ 3,300.00	34%	\$ 2,178.00
MSS SHELF OPTIONS - Table A					
3EM22715AH	9500 MPR Shelf Kit w/FanEvo - HSv2	N	\$ 2,150.00	68%	\$ 688.00
3EM24463AB	9500 MPR Shelf Kit (MSS-4 10G)	N	\$ 750.00	68%	\$ 240.00
3DB18163AB	MSS Slot Cover - Blank Plate 1/2H	N	\$ 40.60	68%	\$ 12.99
3CC52216AA	Fan Alarm Cable 7.5m	N	\$ 90.00	68%	\$ 28.80
3CC52216AB	Fan Alarm Cable 15m	N	\$ 150.00	68%	\$ 48.00
3DB05594AA	AUX Cable for Housekeeping	N	\$ 125.00	68%	\$ 40.00
MSS SHELF OPTION SPARES - Table A					
3DB18485EA	Wavence MSS-8 Shelf HSv3	N	\$ 1,430.00	68%	\$ 457.60
3DB18219DA	MSS-4 10G Shelf	N	\$ 525.00	68%	\$ 168.00
3EM23911BB	MSS Fan Alarm Evo	Y	\$ 500.00	68%	\$ 160.00



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3DB19506AA	MSS-4 10G FAN	Y	\$ 330.00	68%	\$ 105.60
3MU00153AA	MSS Power Supply Cable Kit	N	\$ 121.00	68%	\$ 38.72
3EM24095AC	MPT-HL & HLC Power Cable	N	\$ 216.00	34%	\$ 142.56
3EM24040AA	MPT-HL Air Filter (Spare)	N	\$ 55.00	34%	\$ 36.30
3DB76288AA	MPT-HLC Air Filter Kit (Spare)	Y	\$ 112.00	34%	\$ 73.92
3DB19325AA	MSS-8 Side Filter	N	\$ 60.00	34%	\$ 39.60
3DB19580AA	MSS-8 Side Filter - Mid Mount	N	\$ 80.00	34%	\$ 52.80
3DB19325AB	MSS-8 Side Filter Screen	N	\$ 60.00	34%	\$ 39.60
3DB19580AB	MSS-8 Side Filter Sreen - Mid Mount	N	\$ 80.00	34%	\$ 52.80
MSS1 - Table A1					
3DB19015CA	MSS1 Spare ONLY	Y	\$ 3,200.00	68%	\$ 1,024.00
3MU00109AC	MSS1 Kit	Y	\$ 3,250.00	68%	\$ 1,040.00
1AC007800068	cable to power MSS-1c (2 conductors, 1mm sq) GLP is per foot	N	\$ 0.77	34%	\$ 0.51
MSS1 - Table A1					
3DB19445AA	MSS-E	Y	\$ 1,562.50	68%	\$ 500.00
3DB19575AA	MSS-HE	Y	\$ 3,200.00	68%	\$ 1,024.00
3MU00187AA	MSS-E Rack Kit	Y	\$ 80.00	68%	\$ 25.60
3MU00187BA	MSS-HE/XE Rack Kit	Y	\$ 170.00	68%	\$ 54.40
MSS-O - Table A1					
3DB19159AA	MSS-O AC Kit, include Pole/Wall Mounting	Y	\$ 3,375.00	68%	\$ 1,080.00
3DB19281AA	MSS-O DC Kit, include Pole/Wall Mounting	Y	\$ 3,375.00	68%	\$ 1,080.00
3DB19158AA	Pole/wall IM for MSS-O, Spare ONLY	N	\$ 275.00	34%	\$ 181.50
1AB150990012	RFE protection connector MSS-O	Y	\$ 42.00	34%	\$ 27.72
1AB150990013	fiber extension tube for MSS-O	N	\$ 197.00	34%	\$ 130.02
1AC052600002	Outdoor AC Power Cable (meter)	N	\$ 9.00	34%	\$ 5.94
1AC057660001	Outdoor DC Power Cable (meter)	N	\$ 12.00	34%	\$ 7.92
3CC50271AA	Triple Grounding Kit	N	\$ 324.00	34%	\$ 213.84
3CC52210AA	MM Fiber, LC/LC for MSS-O, 5m	N	\$ 135.00	34%	\$ 89.10
3CC52210AB	MM Fiber, LC/LC for MSS-O, 10m	N	\$ 157.00	34%	\$ 103.62
3CC52210AC	MM Fiber, LC/LC for MSS-O, 25m	N	\$ 199.00	34%	\$ 131.34
MSS SHELF OPTIONS - Table A					
3DB19318BA	CorEvo-1G	Y	\$ 1,300.00	68%	\$ 416.00
3DB18788BA	CorEvo-10G	Y	\$ 3,010.00	68%	\$ 963.20
3DB18126AE	32xT1 TDM Module - TH/Clei	Y	\$ 2,030.00	68%	\$ 649.60
3DB18634AB	MPT-Access with PoE	Y	\$ 1,754.00	68%	\$ 561.28
3DB18735AA	2xOC3 Module	Y	\$ 2,200.00	68%	\$ 704.00
3DB19017AB	Ethernet Access Module Version2 with PoE	Y	\$ 2,400.00	68%	\$ 768.00
3DB78017AA	Sync In/Out SFP for MSS-1/CorEvo-10G	Y	\$ 1,200.00	68%	\$ 384.00
3DB78022AA	1588 ToD SFP	Y	\$ 1,000.00	68%	\$ 320.00
3DB19417AA	EAC 1G	Y	\$ 750.00	68%	\$ 240.00
3DB19343AA	EAC 10G	Y	\$ 1,800.00	68%	\$ 576.00
1AB380750004	DS3 SFP	Y	\$ 1,426.56	68%	\$ 456.50
3MU00192AA	DS3 SFP & Cable Adptr Kit	Y	\$ 3,200.00	68%	\$ 1,024.00
Conformal Coating					
3DB18788KA	CorEvo-10G Conformal Coating	Y	\$ 3,280.00	68%	\$ 1,049.60
3DB18126KA	32xT1 TDM Module Conformal Coating	Y	\$ 2,300.00	68%	\$ 736.00
3DB19017KA	Ethernet Access Module Version2 with PoE Conformal Coating	Y	\$ 2,700.00	68%	\$ 864.00
3DB19417KA	EAC 1G Conformal Coating	Y	\$ 1,872.00	68%	\$ 599.04
3DB19343KA	EAC 10G Conformal Coating	Y	\$ 2,072.00	68%	\$ 663.04
3EM23911BK	Fan Alarm Evo Conformal Coating	Y	\$ 1,000.00	68%	\$ 320.00
3EM22715KA	MSS-8 Shelf Kit w/FanEvo - HSv3 CC	Y	\$ 2,500.00	68%	\$ 800.00
3DB18485KA	MSS-8 10G shelf Conformal Coating	Y	\$ 1,534.00	68%	\$ 490.88
Optical Coupler for CoreE Protection					
3EM09257AA	Fiber Management Panel	N	\$ 300.00	34%	\$ 198.00
1AB432200001	Splitter/Combiner unit for 2x4 Management Panel (LC)	N	\$ 1,200.00	34%	\$ 792.00
1AB123320023	Splitter/Combiner unit for 2x4 Management Panel (SC)	N	\$ 1,000.00	34%	\$ 660.00
DC-DC Power Convertor MSS Version					
3DB18862AA	+24 /-48 Vdc Two converters with chassis (Requires 1 MSS Slot)	N	\$ 2,790.00	34%	\$ 1,841.40
SOFTWARE R19 19A - Table B					
3DB17010GCAA	Wavence 19 SW CD Kit	N	\$ 1,500.00	68%	\$ 480.00
3DB17010HCAA	Wavence 19 SW Electronic Delivery Kit	N	\$ 1,000.00	68%	\$ 320.00
3DB17020ECAA	Wavence 19 Flash Card MSS1/MSSO	N	\$ 100.00	68%	\$ 32.00
3DB17020FCAA	Wavence 19 Flash Card Core-E	N	\$ 100.00	68%	\$ 32.00
3DB17020DDAF	Wavence 19A ICS05 uSD Card for CoreEvo-10G	N	\$ 100.00	68%	\$ 32.00
3DB17010HDAF	Wavence 19A ICS05 SW Electronic Delivery Kit	N	\$ 1,000.00	68%	\$ 320.00



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3DB17020EDAA	Wavence 19A Flash Card MSS1/MSSO	N	\$ 100.00	68%	\$ 32.00
3DB17020FDAA	Wavence 19A Flash Card Core-E	N	\$ 100.00	68%	\$ 32.00
SOFTWARE R20 - Table B					
3DB17020DEAC	Wavence 20 uSD ICS03 Card for CoreEvo-10G	N	\$ 100.00	68%	\$ 32.00
3DB17010HEAC	Wavence 20 SW Electronic Delivery Kit	N	\$ 1,000.00	68%	\$ 320.00
3DB17010GEAB	Wavence 20 ICS02 SW CD Kit	N	\$ 1,500.00	68%	\$ 480.00
3DB17010HEAB	Wavence 20 ICS02 SW Electronic Delivery Kit	N	\$ 1,000.00	68%	\$ 320.00
3DB17020EEAA	Wavence 20 ICS03 Flash Card MSS1/MSSO	N	\$ 100.00	68%	\$ 32.00
SOFTWARE W20A					
3DB17021JFAA	Wavence 20A MSS-E uSD	N	\$ 100.00	68%	\$ 32.00
3DB17021KFAA	Wavence 20A MSS-HE uSD	N	\$ 1,500.00	68%	\$ 480.00
3DB17010GFAA	Wavence 20A SW CD Kit	N	\$ 1,000.00	68%	\$ 320.00
SOFTWARE W20A MP1					
3DB17020DFAB	Wavence 20A MP1 uSD Card for CoreEvo-10G	N	\$ 100.00	68%	\$ 32.00
3DB17010HFAB	Wavence 20A MP1 SW Electronic Delivery Kit	N	\$ 1,000.00	68%	\$ 320.00
SOFTWARE W20A SU1					
3DB17021TFBA	Wavence 20A SU1 Secure uSD for CorEvo-10G	N	\$ 5,000.00	68%	\$ 1,600.00
SOFTWARE W20A MP2					
3DB17020DFAC	Wavence 20A MP2 uSD Card for CoreEvo-10G	N	\$ 100.00	68%	\$ 32.00
3DB17010HFAC	Wavence 20A MP2 SW Electronic Delivery Kit	N	\$ 1,000.00	68%	\$ 320.00
SOFTWARE W20A MP3					
3DB17020DFAD	Wavence 20A MP3 uSD Card for CoreEvo-10G	N	\$ 100.00	68%	\$ 32.00
3DB17010HFAD	Wavence 20A MP3 SW Electronic Delivery Kit	N	\$ 1,000.00	68%	\$ 320.00
SOFTWARE W21 - Table B					
3DB17021JGAA	Wavence 21 MSS-E uSD	N	\$ 100.00	68%	\$ 32.00
3DB17021KGAA	Wavence 21 MSS-HE uSD	N	\$ 100.00	68%	\$ 32.00
3DB17021DGAA	Wavence 21 uSD Card for CoreEvo-10G	N	\$ 100.00	68%	\$ 32.00
3DB17010HGAA	Wavence 21 SW Electronic Delivery Kit	N	\$ 1,000.00	68%	\$ 320.00
SOFTWARE W21A - Table B					
3DB17021DHAA	Wavence 21A uSD Card for CoreEvo-10G	N	\$ 100.00	68%	\$ 32.00
3DB17010HHAA	Wavence 21A SW Electronic Delivery Kit	N	\$ 1,000.00	68%	\$ 320.00
SOFTWARE W21A SP1 - Table B					
3DB17021JJAA	Wavence 21A SP1 MSS-E uSD	N	\$ 100.00	68%	\$ 32.00
3DB17021KJAA	Wavence 21A SP1 MSS-HE uSD	N	\$ 100.00	68%	\$ 32.00
3DB17021DJAA	Wavence 21A SP1 uSD Card for CoreEvo-10G	N	\$ 100.00	68%	\$ 32.00
3DB17010HJAA	Wavence 21A SP1 SW Electronic Delivery Kit	N	\$ 1,000.00	68%	\$ 320.00
MISC RTU					
3EM24226AA	Microwave Factory Test Certificate	N	\$ 1,500.00	68%	\$ 480.00
3EM24226AF	Factory Configuration Certificate - Customer Witness Test	N	\$ 1,562.50	68%	\$ 500.00
3EM23067AAAA	9500 MPR CT License (Per PC Installed) Optional for CorEvo	N	\$ 500.00	68%	\$ 160.00
3EM24592AAAB	9500 MPR Software Subscription (Per Node)	N	\$ 500.00	68%	\$ 160.00
3EM24745AAAA	9500 MPre OS License For MPT Only	N	\$ 1,500.00	68%	\$ 480.00
3MU00147AAAA	MPT Spectrum Analyzer Tool RTU	N	\$ 3,000.00	68%	\$ 960.00
3DB19531DBAA	Wavence Spectrum Analyzer Tool	N	\$ 4,560.00	68%	\$ 1,459.20
Secure Mode					
3DB19414AA	MSS-8 Security Kit	N	\$ 350.00	68%	\$ 112.00
3DB76333AA	MPT-HLC Security Kit	N	\$ 300.00	68%	\$ 96.00
3DB19411AA	Tamper Resistant Label Kit	N	\$ 200.00	68%	\$ 64.00
3EM24226AHAA	FIPS Configuration Certification - Must Have 20A SU1 & AES 256 RTU	N	\$ 1,910.00	68%	\$ 611.20
Factory RTU's - per ODU or RF Transceiver - Table B1					
3EM23068AAAA	RTU 40Mbps TRX Capacity	N	\$ 75.00	68%	\$ 24.00
3EM23068ABAA	RTU 80Mbps TRX Capacity	N	\$ 500.00	68%	\$ 160.00
3EM23068ACAA	RTU 120Mbps TRX Capacity	N	\$ 2,000.00	68%	\$ 640.00
3EM23068ADAA	RTU 160Mbps TRX Capacity	N	\$ 3,500.00	68%	\$ 1,120.00
3EM23068AFAA	RTU 220Mbps TRX Capacity	N	\$ 4,250.00	68%	\$ 1,360.00
3EM23068AEAA	RTU 320Mbps TRX Capacity	N	\$ 5,000.00	68%	\$ 1,600.00
3EM23068AGAA	RTU 450Mbps TRX Capacity	N	\$ 6,500.00	68%	\$ 2,080.00
3EM23068AHAA	RTU 500Mbps TRX Capacity	N	\$ 7,000.00	68%	\$ 2,240.00
3EM23261AAAA	9500 MPR 5.8GHz Unlicensed RTU (MPT-HL only)	N	\$ 1,500.00	68%	\$ 480.00
3EM23073AAAA	9500 MPR Adaptive Modulation RTU	N	\$ 1,500.00	68%	\$ 480.00
3MU00086AAAA	9500 MPR MSP Ring RTU	N	\$ 1,500.00	68%	\$ 480.00



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3MU00092AAAA	9500 MPR Packet Throughput Booster RTU	N	\$ 4,000.00	68%	\$ 1,280.00
3MU00122AAAA	9500 MPR XPIC RTU	N	\$ 1,200.00	68%	\$ 384.00
3MU00121AAAA	9500 MPR AES RTU	N	\$ 5,000.00	68%	\$ 1,600.00
3MU00148AAAA	1588 TC RTU	N	\$ 1,500.00	68%	\$ 480.00
3MU00149AAAA	1588 BC RTU	N	\$ 2,000.00	68%	\$ 640.00
3MU00154AAAA	9500 MPR RTU 10G Interface	N	\$ 2,500.00	68%	\$ 800.00
3MU00155AAAA	9500 MPR RTU MSS-O L1 LAG	N	\$ 1,000.00	68%	\$ 320.00
3MU00156AAAA	9500 MPR RTU 5+ L1 LAG	N	\$ 5,500.00	68%	\$ 1,760.00
3MU00175AAAA	Bandwidth Notifications RTU	N	\$ 1,500.00	68%	\$ 480.00
3MU00180DFAA	RTU MSS-HE 10G	N	\$ 2,500.00	68%	\$ 800.00
Upgrade (ASLM) RTU's - Table B2					
3EM23577AAAA	RTU 40Mbps TRX Capacity Upgrade	N	\$ 80.00	68%	\$ 25.60
3EM23577ABAA	RTU 80Mbps TRX Capacity Upgrade	N	\$ 500.00	68%	\$ 160.00
3EM23577ACAA	RTU 120Mbps TRX Capacity Upgrade	N	\$ 2,000.00	68%	\$ 640.00
3EM23577ADAA	RTU 160Mbps TRX Capacity Upgrade	N	\$ 3,500.00	68%	\$ 1,120.00
3EM23577BBAA	RTU 220Mbps TRX Capacity Upgrade	N	\$ 4,250.00	68%	\$ 1,360.00
3EM23577AEAA	RTU 320Mbps TRX Capacity Upgrade	N	\$ 5,000.00	68%	\$ 1,600.00
3EM23577BCAA	RTU 450Mbps TRX Capacity Upgrade	N	\$ 6,500.00	68%	\$ 2,080.00
3EM23577BTAA	RTU 500Mbps TRX Capacity Upgrade	N	\$ 7,000.00	68%	\$ 2,240.00
3EM23577AFAA	9500 MPR Adaptive Modulation RTU Upgrade	N	\$ 1,500.00	68%	\$ 480.00
3EM23577AGAA	9500 MPR 5.8GHz Unlicensed RTU Upgrade	N	\$ 1,500.00	68%	\$ 480.00
3EM23577AUA	9500 MPR MSP Ring RTU Upgrade	N	\$ 1,500.00	68%	\$ 480.00
3EM23577AVAA	9500 MPR Packet Throughput Booster RTU Upgrade	N	\$ 4,000.00	68%	\$ 1,280.00
3EM23577AYAA	9500 MPR XPIC RTU Upgrade	N	\$ 1,200.00	68%	\$ 384.00
3EM23577AZAA	9500 MPR AES RTU Upgrade	N	\$ 5,000.00	68%	\$ 1,600.00
3EM23577BPAA	1588 TC Upgrade	N	\$ 1,500.00	68%	\$ 480.00
3EM23577BQAA	1588 BC Upgrade	N	\$ 2,000.00	68%	\$ 640.00
3EM23577BUAA	9500 MPR RTU 10G Interface Upgrade	N	\$ 2,500.00	68%	\$ 800.00
3EM23577BVAA	9500 MPR RTU MSS-O L1 LAG Upgrade	N	\$ 1,000.00	68%	\$ 320.00
3EM23577BWAA	9500 MPR RTU 5+ L1 LAG Upgrade	N	\$ 5,500.00	68%	\$ 1,760.00
3EM23577DAAA	Bandwidth Notifications RTU Upgrade	N	\$ 1,500.00	68%	\$ 480.00
3MU00177DFAA	RTU MSS-HE 10G	N	\$ 2,500.00	68%	\$ 800.00
ASLM Capacity Upgrades - Table B3					
3EM23577AHAA	Capacity Upgrade MPR-TR-40T80	N	\$ 420.00	68%	\$ 134.40
3EM23577AJAA	Capacity Upgrade MPR-TR-40T120	N	\$ 1,920.00	68%	\$ 614.40
3EM23577AKAA	Capacity Upgrade MPR-TR-40T160	N	\$ 3,420.00	68%	\$ 1,094.40
3EM23577ALAA	Capacity Upgrade MPR-TR-40T320	N	\$ 4,920.00	68%	\$ 1,574.40
3EM23577AMAA	Capacity Upgrade MPR-TR-80T120	N	\$ 1,500.00	68%	\$ 480.00
3EM23577ANAA	Capacity Upgrade MPR-TR-80T160	N	\$ 3,000.00	68%	\$ 960.00
3EM23577APAA	Capacity Upgrade MPR-TR-80T320	N	\$ 4,500.00	68%	\$ 1,440.00
3EM23577AQAA	Capacity Upgrade MPR-TR120T160	N	\$ 1,500.00	68%	\$ 480.00
3EM23577ARAA	Capacity Upgrade MPR-TR120T320	N	\$ 3,000.00	68%	\$ 960.00
3EM23577ASAA	Capacity Upgrade MPT-TR160T320	N	\$ 1,500.00	68%	\$ 480.00
3EM23577BDAA	Capacity Upgrade MPR-TR-40T220	N	\$ 4,170.00	68%	\$ 1,334.40
3EM23577BEAA	Capacity Upgrade MPR-TR-80T220	N	\$ 3,750.00	68%	\$ 1,200.00
3EM23577BFAA	Capacity Upgrade MPR-TR-120T220	N	\$ 2,250.00	68%	\$ 720.00
3EM23577BGAA	Capacity Upgrade MPR-TR-160T220	N	\$ 750.00	68%	\$ 240.00
3EM23577BHAA	Capacity Upgrade MPR-TR-40T450	N	\$ 6,420.00	68%	\$ 2,054.40
3EM23577BJAA	Capacity Upgrade MPR-TR-80T450	N	\$ 6,000.00	68%	\$ 1,920.00
3EM23577BKAA	Capacity Upgrade MPR-TR-120T450	N	\$ 4,500.00	68%	\$ 1,440.00
3EM23577BLAA	Capacity Upgrade MPR-TR-160T450	N	\$ 3,000.00	68%	\$ 960.00
3EM23577BMAA	Capacity Upgrade MPR-TR-220T450	N	\$ 2,250.00	68%	\$ 720.00
3EM23577BNAA	Capacity Upgrade MPR-TR-320T450	N	\$ 1,500.00	68%	\$ 480.00
3EM23577BYAA	Capacity Upgrade MPR-TR-40T500	N	\$ 6,920.00	68%	\$ 2,214.40
3EM23577BZAA	Capacity Upgrade MPR-TR-80T500	N	\$ 6,500.00	68%	\$ 2,080.00
3EM23577CAAA	Capacity Upgrade MPR-TR-120T500	N	\$ 5,000.00	68%	\$ 1,600.00
3EM23577CBAA	Capacity Upgrade MPR-TR-160T500	N	\$ 3,500.00	68%	\$ 1,120.00
3EM23577CCAA	Capacity Upgrade MPR-TR-220T500	N	\$ 2,750.00	68%	\$ 880.00
3EM23577CDAA	Capacity Upgrade MPR-TR-320T500	N	\$ 2,000.00	68%	\$ 640.00
3EM23577CEAA	Capacity Upgrade MPR-TR-450T500	N	\$ 500.00	68%	\$ 160.00
DOCUMENTATION (1 Per NE) - Table K3					
3DB19275AFAA	Wavence 18 O&M Manual Electronic Delivery OLCS	N	\$ 90.00	68%	\$ 28.80
3DB19275AGAA	Wavence 18A O&M Manual Electronic Delivery OLCS	N	\$ 90.00	68%	\$ 28.80
3DB19275AHAA	Wavence 19 O&M Manual Electronic Delivery OLCS	N	\$ 90.00	68%	\$ 28.80
3DB19275AJAA	Wavence 19A O&M Manual Electronic Delivery OLCS	N	\$ 90.00	68%	\$ 28.80
3DB19275AKAA	Wavence 20 O&M Manual Electronic Delivery OLCS	N	\$ 90.00	68%	\$ 28.80
3DB19275ALAA	Wavence 20A O&M Manual Electronic Delivery OLCS	N	\$ 90.00	68%	\$ 28.80
3DB19275AMAA	Wavence 21 O&M Manual Electronic Delivery OLCS	N	\$ 90.00	68%	\$ 28.80
3DB19275ANAA	Wavence 21A O&M Manual Electronic Delivery OLCS	N	\$ 90.00	68%	\$ 28.80



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Tributary Options OPTICS - Table A1					
3EM20277AA	Optics SFP GigE 850 NM Multimode 550 Meter	Y	\$ 225.00	68%	\$ 72.00
3EM20277AB	Optics SFP GigE 1310 NM Singlemode 10 Kilometer	Y	\$ 225.00	68%	\$ 72.00
3CC50204AA	Optics SFP GigE 1310 NM Singlemode 40 Kilometer	Y	\$ 125.00	68%	\$ 40.00
3CC50170AA	Optics SFP GigE 1550 NM Singlemode 80 Kilometer	Y	\$ 148.50	68%	\$ 47.52
3DB80628AA	SFP Copper Cable, 1.5 M	N	\$ 215.00	68%	\$ 68.80
3DB80628AB	SFP Copper Cable, 2.0 M	N	\$ 220.00	68%	\$ 70.40
3DB80628AC	SFP Copper Cable, 3.0 M	N	\$ 225.00	68%	\$ 72.00
3CC50167AA	Optical SFP (850 MM) for use in ODU - MPT-HC	Y	\$ 70.00	68%	\$ 22.40
3CC50168AA	Opt SFP 1000Base-LX for use in ODU - MPT-HC	Y	\$ 225.00	68%	\$ 72.00
3CC50169AA	Copper SFP (Finisar) - not for use on ODU	Y	\$ 126.00	68%	\$ 40.32
3CC50166AA	OC3 optical SFP, L.1.1	Y	\$ 100.00	68%	\$ 32.00
3CC50165AA	OC3 optical SFP, S.1.1	Y	\$ 55.00	68%	\$ 17.60
3CC50386AA	1000BASE-SX 2.5 Gbps	Y	\$ 225.00	68%	\$ 72.00
3CC50396AA	1000BASE-LX 1/2.5 Gbps	Y	\$ 225.00	68%	\$ 72.00
3CC50387AA	SFP+ 10GBASE-SR	Y	\$ 638.00	68%	\$ 204.16
3CC50388AA	SFP+ 10GBASE-LR	Y	\$ 1,450.00	68%	\$ 464.00
3CC50322AA	SFP+ 10GBASE-ER	Y	\$ 2,250.00	68%	\$ 720.00
3CC50183AA	SFP 1000Base-BX20-U	Y	\$ 232.00	68%	\$ 74.24
3CC50184AA	SFP 1000Base-BX20-D	Y	\$ 275.00	68%	\$ 88.00
3CC50198AB	SFP 1000Base-BX40-U	Y	\$ 310.00	68%	\$ 99.20
3CC50199AB	SFP 1000Base-BX40-D	Y	\$ 340.00	68%	\$ 108.80
3CC50200AA	SFP multi-rate CWDM 1490nm 40 km	Y	\$ 500.00	68%	\$ 160.00
3CC50201AA	SFP multi-rate CWDM 1550nm 40 km	Y	\$ 500.00	68%	\$ 160.00
3CC50201AB	SFP multi-rate CWDM 1510nm 40 km	Y	\$ 500.00	68%	\$ 160.00
3CC50201AC	SFP multi-rate CWDM 1530nm 40 km	Y	\$ 500.00	68%	\$ 160.00
3CC50201AD	SFP multi-rate CWDM 1570nm 40 km	Y	\$ 500.00	68%	\$ 160.00
3CC50201AE	SFP multi-rate CWDM 1590nm 40 km	Y	\$ 500.00	68%	\$ 160.00
3CC50201AF	SFP multi-rate CWDM 1610nm 40 km	Y	\$ 500.00	68%	\$ 160.00
3CC50201AG	SFP multi-rate CWDM 1470nm 40 km	Y	\$ 500.00	68%	\$ 160.00
Tributary Options DS1 Cables/Supplies - Table A1					
1AF15245AB	32 E1/T1 Protection Panel - RJ45	N	\$ 825.00	34%	\$ 544.50
3MU00173AA	DS1 Protection Panel 68 SCSI to 37 D-Sub	N	\$ 647.00	34%	\$ 427.02
3CC52118AA	E1/T1 SCSI-SCSI Interface Cable (16 T1/E1 per Cable)	N	\$ 133.07	34%	\$ 87.83
3EM21339AA	16 DS1 Cable Stub (SCSI-Open) 25' Main Side	N	\$ 268.00	34%	\$ 176.88
3EM21339AB	16 DS1 Cable Stub (SCSI-Open) 25' Spare Side	N	\$ 268.00	34%	\$ 176.88
3EM21339AC	16 DS1 Cable Stub (SCSI-Open) 50' Main Side	N	\$ 482.00	34%	\$ 318.12
3EM21339AD	16 DS1 Cable Stub (SCSI-Open) 50' Spare Side	N	\$ 482.00	34%	\$ 318.12
3EM23110AA	8 DS1 Cable Assembly (D-Open) 15'	N	\$ 200.00	34%	\$ 132.00
3EM23110AB	8 DS1 Cable Assembly (D-Open) 30'	N	\$ 303.00	34%	\$ 199.98
3EM23110AC	8 DS1 Cable Assembly (D-Open) 50'	N	\$ 385.00	34%	\$ 254.10
3EM23110AD	8 DS1 Cable Assembly (D-Open) 100'	N	\$ 1,350.00	34%	\$ 891.00
3DB16109AA	D-Connector Rack Mount Bracket	N	\$ 37.00	34%	\$ 24.42
Tributary Options DS3 Cables/Supplies - Table A1					
3EM22900AA	DS3 Protection Splitter Cable	N	\$ 181.00	34%	\$ 119.46
3EM22687AA	DS3 BNC to Mini-BNC Cable - 2 Meter	N	\$ 85.00	34%	\$ 56.10
3EM22687AB	DS3 BNC to Mini-BNC Cable - 5 Meter	N	\$ 109.00	34%	\$ 71.94
3MU00190AA	DS3 DIN to BNC - 3 Meter	N	\$ 65.00	34%	\$ 42.90
3MU00191AA	DS3 DIN Connector	N	\$ 15.00	34%	\$ 9.90
3EM24462AA	DS3 Grooming Panel Kit	N	\$ 75.00	34%	\$ 49.50
Tributary Options Sync Cables - Table A1					
3DB05850AA	9500 MPR Sync Cable	N	\$ 17.00	34%	\$ 11.22
3DB18204AA	9500 MPR Sync Y-Cable	N	\$ 100.00	34%	\$ 66.00
3DB04295AA	9500 MPR Sync Cable (1.0/2.3 - 1.0/2.3) 1.1m	N	\$ 40.00	34%	\$ 26.40
3DB02901AA	9500 MPR Sync Cable (1.0/2.3 - 1.0/2.3) 6.0m	N	\$ 70.00	34%	\$ 46.20
3CC52203AA	9500 MPR Sync Cable for Sync SFP	N	\$ 33.00	34%	\$ 21.78
Tributary Options Ethernet Cables/Supplies - Table A1					
3MU00085AA	1 ft RJ45 Cat5e Cable	N	\$ 30.00	34%	\$ 19.80
3MU00085AB	2 ft RJ45 Cat5e Cable	N	\$ 35.00	34%	\$ 23.10
3MU00085AC	3 ft RJ45 Cat5e Cable	N	\$ 40.00	34%	\$ 26.40
3MU00085AD	6 ft RJ45 Cat5e Cable	N	\$ 45.00	34%	\$ 29.70
3MU00085AE	10 ft RJ45 Cat5e Cable	N	\$ 50.00	34%	\$ 33.00
3MU00085AF	20 ft RJ45 Cat5e Cable	N	\$ 55.00	34%	\$ 36.30
3MU00085AG	30 ft RJ45 Cat5e Cable	N	\$ 60.00	34%	\$ 39.60
3MU00085AH	50 ft RJ45 Cat5e Cable	N	\$ 90.00	34%	\$ 59.40
3MU00085AJ	70 ft RJ45 Cat5e Cable	N	\$ 120.00	34%	\$ 79.20
3MU00085AK	100 ft RJ45 Cat5e Cable	N	\$ 150.00	34%	\$ 99.00
3MU00085AL	200 ft RJ45 Cat5e Cable	N	\$ 250.00	34%	\$ 165.00
3MU00085AM	300 ft RJ45 Cat5e Cable	N	\$ 350.00	34%	\$ 231.00



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ODU Coax Supplies - Table E2					
1AF02957ABAA	11 GHz FlexTwist	N	\$ 275.00	34%	\$ 181.50
Fiber Optic Jumpers - Table A1					
3EM07641AC	Fiber Optic Jumper Cable, LC to LC, 3 meter, multi mode	N	\$ 200.00	34%	\$ 132.00
3EM07641AD	Fiber Optic Jumper Cable, LC to LC, 5 meter, multi mode	N	\$ 200.00	34%	\$ 132.00
3EM07641AE	Fiber Optic Jumper Cable, LC to LC, 10 meter, multi mode	N	\$ 200.00	34%	\$ 132.00
3EM07646AC	Fiber Optic Jumper Cable, LC to SC, 3 meter, multi mode	N	\$ 200.00	34%	\$ 132.00
3EM07646AD	Fiber Optic Jumper Cable, LC to SC, 5 meter, multi mode	N	\$ 200.00	34%	\$ 132.00
3EM07646AE	Fiber Optic Jumper Cable, LC to SC, 10 meter, multi mode	N	\$ 200.00	34%	\$ 132.00
3EM07651AC	Fiber Optic Jumper Cable, LC to FC, 3 meter, multi mode	N	\$ 200.00	34%	\$ 132.00
3EM07651AD	Fiber Optic Jumper Cable, LC to FC, 5 meter, multi mode	N	\$ 253.00	34%	\$ 166.98
3EM07651AE	Fiber Optic Jumper Cable, LC to FC, 10 meter, multi mode	N	\$ 200.00	34%	\$ 132.00
3EM07641AH	Fiber Optic Jumper Cable, LC to LC, 3 meter, single mode	N	\$ 200.00	34%	\$ 132.00
3EM07641AJ	Fiber Optic Jumper Cable, LC to LC, 5 meter, single mode	N	\$ 200.00	34%	\$ 132.00
3EM07641AK	Fiber Optic Jumper Cable, LC to LC, 10 meter, single mode	N	\$ 200.00	34%	\$ 132.00
3EM07646AH	Fiber Optic Jumper Cable, LC to SC, 3 meter, single mode	N	\$ 200.00	34%	\$ 132.00
3EM07646AJ	Fiber Optic Jumper Cable, LC to SC, 5 meter, single mode	N	\$ 200.00	34%	\$ 132.00
3EM07646AK	Fiber Optic Jumper Cable, LC to SC, 10 meter, single mode	N	\$ 200.00	34%	\$ 132.00
3EM07651AH	Fiber Optic Jumper Cable, LC to FC, 3 meter, single mode	N	\$ 200.00	34%	\$ 132.00
3EM07651AJ	Fiber Optic Jumper Cable, LC to FC, 5 meter, single mode	N	\$ 200.00	34%	\$ 132.00
3EM07651AK	Fiber Optic Jumper Cable, LC to FC, 10 meter, single mode	N	\$ 200.00	34%	\$ 132.00
R56 Grounding					
1AD174570001	SBHB119K Horizontal Rack Ground Bar Kit	N	\$ 200.00	34%	\$ 132.00
1AD214220001	Universal grd bar kit SB57903/19" rack	N	\$ 200.00	34%	\$ 132.00
406645671	#6 Ground cable-KS22641L1, Per FT	N	\$ 1.95	34%	\$ 1.29
408406536	KIT-YA6C-L BOX PWR COMMO*	N	\$ 1.89	34%	\$ 1.25
901350322	SCR M-.25 IN 20 TPI 1 IN*	N	\$ 0.33	34%	\$ 0.22
407305549	WSHR LK-92147A029 SPLT 1*	N	\$ 0.15	34%	\$ 0.10
900327453	FLAT WASHER, STAINLESS STEEL, 1/4 INCH	N	\$ 0.65	34%	\$ 0.43
900329830	NUT-300 HEX SST .250-20	N	\$ 0.22	34%	\$ 0.15
Accessories					
3EM16790RA	VoIP OrderWire,-48Vdc	N	\$ 5,558.00	34%	\$ 3,668.28
MPT-HL Shelf Kit - Table F					
3EM24238AA	MPT-HL Shelf Kit Single T-R	N	\$ 2,420.00	68%	\$ 774.40
3EM24238AB	MPT-HL Shelf Kit Dual T-R	N	\$ 2,475.00	68%	\$ 792.00
MPT-HLC MODULES - Table F1					
3DB19060AA	MPT-HLC XCVR L6 GHZ	Y	\$ 12,000.00	68%	\$ 3,840.00
3DB19060BA	MPT-HLC XCVR L6 GHZ WITH COMBINER	Y	\$ 15,000.00	68%	\$ 4,800.00
3DB19060CA	MPT-HLC XCVR L6 GHZ HP	Y	\$ 16,500.00	68%	\$ 5,280.00
3DB19060DA	MPT-HLC XCVR L6 GHZ HP WITH COMBINER	Y	\$ 19,500.00	68%	\$ 6,240.00
3DB19060EA	MPT-HLC Plus XCVR L6	Y	\$ 21,000.00	68%	\$ 6,720.00
3DB19060FA	MPT-HLC Plus XCVR L6 WITH COMBINER	Y	\$ 24,000.00	68%	\$ 7,680.00
3DB19060GA	MPT-HLC Plus Std XCVR L6	Y	\$ 21,000.00	68%	\$ 6,720.00
3DB19060HA	MPT-HLC Plus Std XCVR L6 WITH COMBINER	Y	\$ 24,000.00	68%	\$ 7,680.00
3DB76047AA	MPT-HLC XCVR U6 GHZ	Y	\$ 12,000.00	68%	\$ 3,840.00
3DB76047BA	MPT-HLC XCVR U6 GHZ WITH COMBINER	Y	\$ 15,000.00	68%	\$ 4,800.00
3DB76047CA	MPT-HLC XCVR U6 GHZ HP	Y	\$ 16,500.00	68%	\$ 5,280.00
3DB76047DA	MPT-HLC XCVR U6 GHZ HP WITH COMBINER	Y	\$ 19,500.00	68%	\$ 6,240.00
3DB76047EA	MPT-HLC Plus XCVR U6	Y	\$ 21,000.00	68%	\$ 6,720.00
3DB76047FA	MPT-HLC Plus XCVR U6 WITH COMBINER	Y	\$ 24,000.00	68%	\$ 7,680.00
3DB76047GA	MPT-HLC Plus Std XCVR U6	Y	\$ 21,000.00	68%	\$ 6,720.00
3DB76047HA	MPT-HLC Plus Std XCVR U6 WITH COMBINER	Y	\$ 24,000.00	68%	\$ 7,680.00
3DB76078AA	MPT-HLC XCVR 10.5 GHZ	Y	\$ 13,000.00	68%	\$ 4,160.00
3DB76078BA	MPT-HLC XCVR 10.5 GHZ WITH COMBINER	Y	\$ 16,000.00	68%	\$ 5,120.00
3DB76050AA	MPT-HLC XCVR 11 GHZ	Y	\$ 13,000.00	68%	\$ 4,160.00
3DB76050BA	MPT-HLC XCVR 11 GHZ WITH COMBINER	Y	\$ 16,000.00	68%	\$ 5,120.00
3DB76050CB	MPT-HLC XCVR 11 GHZ HP	Y	\$ 17,500.00	68%	\$ 5,600.00
3DB76050DB	MPT-HLC XCVR 11 GHZ HP W/COMBINER	Y	\$ 20,500.00	68%	\$ 6,560.00
3DB76050GA	MPT-HLC Plus XCVR 11GHz	Y	\$ 22,000.00	68%	\$ 7,040.00
3DB76050HA	MPT-HLC Plus XCVR 11GHz WITH COMBINER	Y	\$ 15,000.00	68%	\$ 4,800.00
3CC50210AA	MPT-HLC Antenna Alignment Cable	N	\$ 55.00	68%	\$ 17.60
MPT-HLC XPIC Cables					
3CC52204AA	XPIC cable RJ45-RJ45, 3 m	N	\$ 150.00	34%	\$ 99.00
3CC52204AB	XPIC cable RJ45-RJ45, 5 m	N	\$ 220.00	34%	\$ 145.20
3CC52204AC	XPIC cable RJ45-RJ45, 10 m	N	\$ 300.00	34%	\$ 198.00



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3CC52204AD	XPIC cable RJ45-RJ45, 0.5 m	N	\$ 75.00	34%	\$ 49.50
3CC52204AE	XPIC cable RJ45-RJ45, 1 m	N	\$ 100.00	34%	\$ 66.00
MPT-HL Transmit Monitor Port Kit					
3EM24447AA	6 GHz Transmit Monitor Port Kit	Y	\$ 2,000.00	34%	\$ 1,320.00
3EM24447AB	11 GHz Transmit Monitor Port Kit	Y	\$ 2,500.00	34%	\$ 1,650.00
Diplexer Bracket Kits - Table F2					
3EM23465AA	6/11 GHz Hot Standby 1:10 Coupler Diplexer Bracket	N	\$ 1,229.00	68%	\$ 393.28
3EM23465AB	6/11 GHz Hot Standby Space Diversity Diplexer Bracket	N	\$ 1,250.00	68%	\$ 400.00
3EM23465AC	6/11 GHz 1+0 (Non-Standby) Diplexer Bracket	N	\$ 350.00	68%	\$ 112.00
3EM23465AD	6/11 GHz Single Shelf Repeater Diplexer Bracket	N	\$ 451.00	68%	\$ 144.32
3EM23465AE	1+1 HSB, SD w/ Combiner	N	\$ 1,425.00	68%	\$ 456.00
3EM23465AF	2x(1+0), SD w/ Combiner	N	\$ 825.00	68%	\$ 264.00
3EM23465AG	1+0, SD w/ Combiner	N	\$ 400.00	68%	\$ 128.00
3EM23465AH	Expansion to 2x(1+0), SD w/ Combiner	N	\$ 345.00	68%	\$ 110.40
3EM23465AJ	Hot-Standby w/ Antenna Protection	N	\$ 2,890.00	68%	\$ 924.80
3MU00117AA	UU6 GHz, HSB, 1:10 Coupler Diplexer Bracket Kit	N	\$ 5,875.00	68%	\$ 1,880.00
3MU00117AB	UU6 GHz, 1+0 (Non-Stby) Diplexer Bracket Kit	N	\$ 4,750.00	68%	\$ 1,520.00
3MU00117AC	UU6 GHz, HSB, HSB w/ SD Diplexer Bracket Kit	N	\$ 8,200.00	68%	\$ 2,624.00
3MU00117AD	UU6 GHz, HSB, Single Shelf Repeater Diplexer Bracket Kit	N	\$ 8,775.00	68%	\$ 2,808.00
3DB76236AA	BRANCHING COMPACT 4GHZ 1+1 HSB1:10 COUP	N	\$ 3,250.00	68%	\$ 1,040.00
3DB76237AA	BRANCHING COMP. 4GHZ 1+1 HSB SD RPS	N	\$ 3,900.00	68%	\$ 1,248.00
3DB76232AA	BRANCHING COMPACT 4GHZ 1 0	N	\$ 1,940.00	68%	\$ 620.80
3DB76234AA	BRANCHING COMPACT 4GHZ 2x (1+0)	N	\$ 3,950.00	68%	\$ 1,264.00
3DB76238AA	BRANCHING COMP. 4GHZ1X(1+1 HSB SD COMBI	N	\$ 5,575.00	68%	\$ 1,784.00
3DB76235AA	BRANCHING COMPACT 4GHZ 2x (1+0) SD	N	\$ 6,175.00	68%	\$ 1,976.00
3DB76233AA	BRANCHING COMPACT 4GHZ 1+0 SD	N	\$ 3,050.00	68%	\$ 976.00
Diplexer Clamp and Isolator Kits -Lower 6Ghz - Table F3					
3EM23466AA	L6 GHz Hot Standby 1:10 Coupler Diplexer Clamp and Isolator Kits	N	\$ 760.00	68%	\$ 243.20
3EM23466AB	L6 GHz Hot Standby Space Diversity Diplexer Clamp and Isolator Kits	N	\$ 650.00	68%	\$ 208.00
3EM23466AC	L6 GHz 1+0 (Non-Standby) Diplexer Clamp and Isolator Kits	N	\$ 475.00	68%	\$ 152.00
3EM23466AD	L6 GHz Single Shelf Repeater Diplexer Clamp and Isolator Kits	N	\$ 1,275.00	68%	\$ 408.00
3EM23466AN	L6 GHz 1+1 HSB, SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 1,230.00	68%	\$ 393.60
3EM23466AP	L6 GHz 2x(1+0), SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 1,300.00	68%	\$ 416.00
3EM23466AQ	L6 GHz 1+0, SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 650.00	68%	\$ 208.00
3EM23466AR	L6 GHz Expansion to 2x(1+0), SD w/ Combiner Dplxr Clamp & Iso Kit	N	\$ 700.00	68%	\$ 224.00
3EM23466BB	L6 GHz Diplexer Clamp Kit Antenna Protection	N	\$ 950.00	68%	\$ 304.00
Dplxr Clamp, Isolr & Cable Kits -L6Ghz 60 MHz Channels - Table F3					
3DB76116AA	L6 GHz, 60 MHz Hot Standby 1:10 Coupler	N	\$ 3,200.00	68%	\$ 1,024.00
3DB76119AA	L6 GHz, 60 MHz Hot Standby Space Diversity	N	\$ 1,650.00	68%	\$ 528.00
3DB76117AA	L6 GHz, 60 MHz 1+0 (Non-Standby)	N	\$ 750.00	68%	\$ 240.00
3DB76120AA	L6 GHz, 60 MHz Single Shelf Repeater	N	\$ 1,175.00	68%	\$ 376.00
3DB76115AA	L6 GHz, 60 MHz 1+1 HSB, SD w/ Combiner	N	\$ 7,500.00	68%	\$ 2,400.00
3DB76121AA	L6 GHz, 60 MHz 2x(1+0), SD w/ Combiner	N	\$ 1,225.00	68%	\$ 392.00
3DB76118AA	L6 GHz, 60 MHz 1+0, SD w/ Combiner	N	\$ 750.00	68%	\$ 240.00
3DB76195AA	Diplexer Kit 60 Mhz L6 w/ ant prot	N	\$ 3,515.00	68%	\$ 1,124.80
Diplexer Clamp and Isolator Kits -Upper 6Ghz - Table F3					
3EM23466AE	U6 GHz Hot Standby 1:10 Coupler Diplexer Clamp and Isolator Kits	N	\$ 825.00	68%	\$ 264.00
3EM23466AF	U6 GHz Hot Standby Space Diversity Diplexer Clamp and Isolator Kits	N	\$ 710.00	68%	\$ 227.20
3EM23466AG	U6 GHz 1+0 (Non-Standby) Diplexer Clamp and Isolator Kits	N	\$ 508.00	68%	\$ 162.56
3EM23466AH	U6 GHz Single Shelf Repeater Diplexer Clamp and Isolator Kits	N	\$ 1,350.00	68%	\$ 432.00
3EM23466AS	U6 GHz 1+1 HSB, SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 5,200.00	68%	\$ 1,664.00
3EM23466AT	U6 GHz 2x(1+0), SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 1,425.00	68%	\$ 456.00
3EM23466AU	U6 GHz 1+0, SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 715.00	68%	\$ 228.80
3EM23466AV	U6 GHz Expansion to 2x(1+0), SD w/ Combiner Dplxr Clamp & Iso Kit	N	\$ 710.00	68%	\$ 227.20
3EM23466BC	U6 GHz Diplexer Clamp Kit Antenna Protection	N	\$ 1,350.00	68%	\$ 432.00
Diplexer Clamp and Isolator Kits -Upper 5.8Ghz - Table F3					
3EM23466AJ	5.8 GHz Hot Standby 1:10 Coupler Diplexer Clamp and Isolator Kits	N	\$ 2,575.00	68%	\$ 824.00
3EM23466AK	5.8 GHz Hot Standby Space Diversity Diplexer Clamp and Isolator Kits	N	\$ 680.00	68%	\$ 217.60
3EM23466AL	5.8 GHz 1+0 (Non-Standby) Diplexer Clamp and Isolator Kits	N	\$ 505.00	68%	\$ 161.60
3EM23466AM	5.8 GHz Single Shelf Repeater Diplexer Clamp and Isolator Kits	N	\$ 1,010.00	68%	\$ 323.20
3EM23466AW	5.8 GHz 1+1 HSB, SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 4,640.00	68%	\$ 1,484.80
3EM23466AY	5.8 GHz 2x(1+0), SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 1,010.00	68%	\$ 323.20
3EM23466AZ	5.8 GHz 1+0, SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 501.00	68%	\$ 160.32
3EM23466BA	5.8 GHz Expansion to 2x(1+0), SD w/ Combiner Dplxr Clamp & Iso Kit	N	\$ 501.00	68%	\$ 160.32
Diplexer Clamp and Isolator Kits - 10.5 Ghz - Table F3					
3EM24188CA	10.5 GHz Hot Standby 1:10 Coupler Diplexer Clamp and Isolator Kits	N	\$ 915.00	68%	\$ 292.80



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3EM24188CB	10.5 GHz Hot Standby Space Diversity Diplexer Clamp and Isolator Kits	N	\$ 875.00	68%	\$ 280.00
3EM24188CC	10.5 GHz 1+0 (Non-Standby) Diplexer Clamp and Isolator Kits	N	\$ 615.00	68%	\$ 196.80
3EM24188CD	10.5 GHz Single Shelf Repeater Diplexer Clamp and Isolator Kits	N	\$ 1,400.00	68%	\$ 448.00
3EM24188CE	10.5 GHz 1+1 HSB, SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 1,915.00	68%	\$ 612.80
3EM24188CF	10.5 GHz 2x(1+0), SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 2,075.00	68%	\$ 664.00
3EM24188CG	10.5 GHz 1+0, SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 1,045.00	68%	\$ 334.40
3EM24188CH	10.5 GHz Expansion to 2x(1+0), SD w/ Combiner Dplxr Clamp & Iso Kit	N	\$ 1,045.00	68%	\$ 334.40
3EM24188CJ	10.5 GHz Diplexer Clamp Kit Antenna Prot9500 MPR	N	\$ 1,785.00	68%	\$ 571.20
Diplexer Clamp and Isolator Kits - 11 Ghz - Table F3					
3EM24188BA	11 GHz Hot Standby 1:10 Coupler Diplexer Clamp and Isolator Kits	N	\$ 860.00	68%	\$ 275.20
3EM24188BB	11 GHz Hot Standby Space Diversity Diplexer Clamp and Isolator Kits	N	\$ 750.00	68%	\$ 240.00
3EM24188BC	11 GHz 1+0 (Non-Standby) Diplexer Clamp and Isolator Kits	N	\$ 565.00	68%	\$ 180.80
3EM24188BD	11 GHz Single Shelf Repeater Diplexer Clamp and Isolator Kits	N	\$ 1,125.00	68%	\$ 360.00
3EM24188BE	11 GHz 1+1 HSB, SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 2,625.00	68%	\$ 840.00
3EM24188BF	11 GHz 2x(1+0), SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 1,500.00	68%	\$ 480.00
3EM24188BG	11 GHz 1+0, SD w/ Combiner Diplexer Clamp and Isolator Kit	N	\$ 755.00	68%	\$ 241.60
3EM24188BH	11 GHz Expansion to 2x(1+0), SD w/ Combiner Dplxr Clamp & Iso Kit	N	\$ 755.00	68%	\$ 241.60
3EM24188BJ	11 GHz Diplexer Clamp Kit Antenna Prot9500 MPR	N	\$ 1,125.00	68%	\$ 360.00
RF Diplexer Filters - Table G					
3EM24458AA	RF Diplexer Filter Xmt 5725-5755, Rcv 5790-5820, 30MHz	N	\$ 1,100.00	68%	\$ 352.00
3EM24458AB	RF Diplexer Filter Xmt 5755-5785, Rcv 5820-5850, 30MHz	N	\$ 1,100.00	68%	\$ 352.00
3EM24458AC	RF Diplexer Filter Xmt 5725-5755, Rcv 5820-5850, 30MHz	N	\$ 1,650.00	68%	\$ 528.00
3EM16710AB	RF Diplexer Filter Xmt 5925-6175, Rcv 6175-6425, 10 MHz BW	N	\$ 1,825.00	68%	\$ 584.00
3EM16710AC	RF Diplexer Filter Xmt 6175-6425, Rcv 5925-6175, 10 MHz BW	N	\$ 1,825.00	68%	\$ 584.00
3EM24335AA	RF Diplexer Filter 5925-6425, 30MHz, Symmetrical	N	\$ 1,500.00	68%	\$ 480.00
3DB76188AA	RF Diplexer Filter Xmt 5925-6175, Rcv 6175-6425, 60 MHz BW	N	\$ 2,500.00	68%	\$ 800.00
3DB76189AA	RF Diplexer Filter Xmt 6175-6425, Rcv 5925-6175, 60 MHz BW	N	\$ 2,500.00	68%	\$ 800.00
3EM09730AA	RF Diplexer Filter Xmt 6525-6875, Rcv 6525-6875, 10 MHz BW	N	\$ 950.00	68%	\$ 304.00
3EM24333AA	RF Diplexer Filter Xmt 6525-6875, 30MHz, Symmetrical	N	\$ 1,100.00	68%	\$ 352.00
967-1585-002	RF Diplexer Filter Xmt 6440-6750, Rcv 6440-6750, 10 MHz BW	N	\$ 2,650.00	68%	\$ 848.00
967-1585-003	RF Diplexer Filter Xmt 6440-6750, Rcv 6750-7080, 10 MHz BW	N	\$ 3,850.00	68%	\$ 1,232.00
967-1585-004	RF Diplexer Filter Xmt 6750-7080, Rcv 6440-6750, 10 MHz BW	N	\$ 3,850.00	68%	\$ 1,232.00
967-1585-005	RF Diplexer Filter Xmt 6750-7080, Rcv 6750-7080, 10 MHz BW	N	\$ 5,300.00	68%	\$ 1,696.00
3EM04024AC	RF Diplexer Filter Xmt 6440-6580, Rcv 6740-6920, 30MHz	N	\$ 1,500.00	68%	\$ 480.00
3EM04024AD	RF Diplexer Filter Xmt 6581-6740, Rcv 6921-7080, 30MHz	N	\$ 850.00	68%	\$ 272.00
3EM04024AE	RF Diplexer Filter Xmt 6740-6920, Rcv 6440-6580, 30MHz	N	\$ 1,500.00	68%	\$ 480.00
3EM04024AF	RF Diplexer Filter Xmt 6921-7080, Rcv 6581-6740, 30MHz	N	\$ 850.00	68%	\$ 272.00
3EM24078AA	RF Diplexer Filter 10550-10680, 10 MHz BW, Symmetrical	N	\$ 1,600.00	68%	\$ 512.00
3EM24081AA	RF Diplexer Filter 10700-11700, 30 MHz, Symmetrical	N	\$ 1,500.00	68%	\$ 480.00
RF Space Filters - Table G1					
3EM11649AA	RF Diplexer Space Diversity Filter 5725-5755/30MHz	N	\$ 1,850.00	68%	\$ 592.00
3EM11649AB	RF Diplexer Space Diversity Filter 5755-5785/30MHz	N	\$ 1,850.00	68%	\$ 592.00
3EM11649AC	RF Diplexer Space Diversity Filter 5790-5820/30MHz	N	\$ 1,850.00	68%	\$ 592.00
3EM11649AD	RF Diplexer Space Diversity Filter 5820-5850/30MHz	N	\$ 1,850.00	68%	\$ 592.00
967-0506-002	RF Diplexer Space Diversity Filter 5925-6175 /10MHz BW	N	\$ 2,900.00	68%	\$ 928.00
967-0506-003	RF Diplexer Space Diversity Filter 6175-6425 /10MHz BW	N	\$ 2,700.00	68%	\$ 864.00
3EM04182AA	RF Diplexer Space Diversity Filter 5925-6050/30MHz	N	\$ 1,245.00	68%	\$ 398.40
3EM04182AB	RF Diplexer Space Diversity Filter 6050-6175/30MHz	N	\$ 2,000.00	68%	\$ 640.00
3EM04182AC	RF Diplexer Space Diversity Filter 6175-6300/30MHz	N	\$ 1,500.00	68%	\$ 480.00
3EM04182AD	RF Diplexer Space Diversity Filter 6300-6425/30MHz	N	\$ 1,500.00	68%	\$ 480.00
3DB76190AA	RF Diplexer Space Diversity Filter 5925-6175 /60MHz BW	N	\$ 1,800.00	68%	\$ 576.00
3DB76191AA	RF Diplexer Space Diversity Filter 6175-6425 /60MHz BW	N	\$ 1,800.00	68%	\$ 576.00
3EM19463AA	RF Diplexer Space Diversity Filter 6525-6875 / 10MHz BW	N	\$ 1,300.00	68%	\$ 416.00
3EM04235AA	RF Diplexer Space Diversity Filter 6525-6710/30MHz	N	\$ 3,650.00	68%	\$ 1,168.00
3EM04235AB	RF Diplexer Space Diversity Filter 6710-6875/30MHz	N	\$ 3,650.00	68%	\$ 1,168.00
967-0506-004	RF Diplexer Space Diversity Filter 6440-6750/10MHz	N	\$ 1,750.00	68%	\$ 560.00
967-0506-005	RF Diplexer Space Diversity Filter 67500-7080/10MHz	N	\$ 2,375.00	68%	\$ 760.00
3EM04235AC	RF Diplexer Space Diversity Filter 6440-6580/30MHz	N	\$ 1,625.00	68%	\$ 520.00
3EM04235AD	RF Diplexer Space Diversity Filter 6580-6740/30MHz	N	\$ 1,000.00	68%	\$ 320.00
3EM04235AE	RF Diplexer Space Diversity Filter 6740-6920/30MHz	N	\$ 2,900.00	68%	\$ 928.00
3EM04235AF	RF Diplexer Space Diversity Filter 6920-7080/30MHz	N	\$ 2,900.00	68%	\$ 928.00
3EM24614AA	RF Diplexer Space Diversity Filter 10550-10680 / 10 MHz	N	\$ 1,575.00	68%	\$ 504.00
3EM24310AA	RF Diplexer Space Diversity Filter 10700-11200 / 30 MHz	N	\$ 1,800.00	68%	\$ 576.00
3EM24310AB	RF Diplexer Space Diversity Filter 11200-11700 / 30 MHz	N	\$ 1,800.00	68%	\$ 576.00
Waveguide Transition Kits - Table G2					
3EM23511AA	Diplexer Transition Assy A2 (6Ghz) Position Kit	N	\$ 585.00	68%	\$ 187.20
3EM23511AB	Diplexer Transition Assy A3 (6Ghz) Position Kit	N	\$ 400.00	68%	\$ 128.00
3EM23511AC	Diplexer Transition Assy A4 (6Ghz) Position Kit	N	\$ 810.00	68%	\$ 259.20
3EM23511AD	Diplexer Transition Assy A5 (6Ghz) Position Kit	N	\$ 620.00	68%	\$ 198.40



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3EM23511AE	Flat Bracket Kit	N	\$ 116.00	68%	\$ 37.12
3EM23511AF	Diplexer Transition Assy A2 (11 Ghz) Position Kit	N	\$ 810.00	68%	\$ 259.20
3EM23511AG	Diplexer Transition Assy A3 (11 Ghz) Position Kit	N	\$ 625.00	68%	\$ 200.00
3EM23511AH	Diplexer Transition Assy A4 (11 Ghz) Position Kit	N	\$ 1,070.00	68%	\$ 342.40
3EM23511AJ	Diplexer Transition Assy A5 (11 Ghz) Position Kit	N	\$ 875.00	68%	\$ 280.00
3EM23511AP	6 GHz Trans Kit A3' Transition Kit A3'	N	\$ 925.00	68%	\$ 296.00
3EM23511AQ	6 GHz Trans Kit A3' FD Transition Kit A3' FD	N	\$ 730.00	68%	\$ 233.60
3EM23511AR	6 GHz Trans Kit A4' Transition Kit A4'	N	\$ 975.00	68%	\$ 312.00
3EM23511AS	6 GHz Trans Kit A4' FD Transition Kit A4' FD	N	\$ 790.00	68%	\$ 252.80
3EM23511AT	11 GHz Trans Kit A3' Transition Kit A3'	N	\$ 1,125.00	68%	\$ 360.00
3EM23511AU	11 GHz Trans Kit A3' FD Transition Kit A3' FD	N	\$ 925.00	68%	\$ 296.00
3EM23511AV	11 GHz Trans Kit A4' Transition Kit A4'	N	\$ 1,075.00	68%	\$ 344.00
3EM23511AW	11 GHz Trans Kit A4' FD Transition Kit A4' FD	N	\$ 1,100.00	68%	\$ 352.00
3EM23511BC	6 GHz Ext Kit Top - A8	N	\$ 690.00	68%	\$ 220.80
3EM23511BD	11 GHz Ext Kit Top - A8	N	\$ 1,200.00	68%	\$ 384.00
Waveguide Transition Kits - Table G3 (note 1007)					
1AB077940016	Diplexer to Transition Cable Assy 228.6mm	N	\$ 50.00	68%	\$ 16.00
1AB077940017	Diplexer to Transition Cable Assy 304.8mm	N	\$ 55.00	68%	\$ 17.60
1AB077940018	Diplexer to Transition Cable Assy 381mm	N	\$ 75.00	68%	\$ 24.00
Stacking Filter Waveguide Kits - Lower 6 Ghz - Table H					
3EM24123DA	Stacking Filter L6 GHz Hot Standby W/G Kit 1st MPT	N	\$ 2,372.00	68%	\$ 759.04
3EM24123DB	Stacking Filter L6 GHz Hot Standby W/G Kit 1st & 2nd MPT	N	\$ 3,124.00	68%	\$ 999.68
3EM24123DC	Stacking Filter L6 GHz Hot Stby W/G Kit 3rd MPT	N	\$ 2,369.00	68%	\$ 758.08
3EM24123DD	Stacking Filter L6 GHz Hot Stby W/G Kit 3rd & 4th MPT	N	\$ 3,084.00	68%	\$ 986.88
3EM24123DE	Stacking Filter L6 GHz Hot Stby W/G Kit Add-On 3rd MPT	N	\$ 1,575.00	68%	\$ 504.00
3EM24123DF	Stacking Filter L6 GHz Hot Stby W/G Kit Add-On 3rd & 4th MPT	N	\$ 2,000.00	68%	\$ 640.00
3EM24123DG	Stacking Filter L6 GHz Hot Stby W/G Kit Add-On 2nd or 4th MPT	N	\$ 750.00	68%	\$ 240.00
Stacking Filter Waveguide Kits - Upper 6 Ghz - Table H					
3EM24123EA	Stacking Filter U6 GHz Hot Standby W/G Kit 1st MPT	N	\$ 2,372.00	68%	\$ 759.04
3EM24123EB	Stacking Filter U6 GHz Hot Standby W/G Kit 1st & 2nd MPT	N	\$ 3,124.00	68%	\$ 999.68
3EM24123EC	Stacking Filter U6 GHz Hot Stby W/G Kit 3rd MPT	N	\$ 2,369.00	68%	\$ 758.08
3EM24123ED	Stacking Filter U6 GHz Hot Stby W/G Kit 3rd & 4th MPT	N	\$ 3,084.00	68%	\$ 986.88
3EM24123EE	Stacking Filter U6 GHz Hot Stby W/G Kit Add-On 3rd MPT	N	\$ 1,600.00	68%	\$ 512.00
3EM24123EF	Stacking Filter U6 GHz Hot Stby W/G Kit Add-On 3rd & 4th MPT	N	\$ 2,000.00	68%	\$ 640.00
3EM24123EG	Stacking Filter U6 GHz Hot Stby W/G Kit Add-On 2nd or 4th MPT	N	\$ 780.00	68%	\$ 249.60
Stacking Filter Waveguide Kits - 6 Ghz - Table H					
3EM24123AE	Stacking Filter 6 GHz Add-on Space Kit 1st MPT (HSB)	N	\$ 2,045.00	68%	\$ 654.40
3EM24123AF	Stacking Filter 6 GHz Add-on Space Kit 1st & 2nd MPT (HSB)	N	\$ 2,540.00	68%	\$ 812.80
3EM24123BF	Stacking Filter 6 GHz Add-on Space Kit 3rd MPT (HSB)	N	\$ 1,450.00	68%	\$ 464.00
3EM24123BG	Stacking Filter 6 GHz Add-on Space Kit 3rd & 4th MPT (HSB)	N	\$ 1,550.00	68%	\$ 496.00
3EM24123AG	Stacking Filter 6 GHz Add-on Space Kit 3rd MPT (HSB)	N	\$ 2,257.00	68%	\$ 722.24
3EM24123AH	Stacking Filter 6 GHz Add-on Space Kit 3rd & 4th MPT (HSB)	N	\$ 2,597.00	68%	\$ 831.04
3EM24123BR	Stacking Filter 6 GHz Add-on Space Kit 2nd or 4th MPT (HSB)	N	\$ 600.00	68%	\$ 192.00
3EM24123AJ	Stacking Filter Initial Bracket Kit	N	\$ 165.00	68%	\$ 52.80
3EM24123AK	Stacking Filter Flat Bracket Kit	N	\$ 99.00	68%	\$ 31.68
3EM24123AW	Stacking Filter Stacker Bracket Kit	N	\$ 165.00	68%	\$ 52.80
3EM24123AY	Stacking Filter 6 GHz Freq Div W/G Kit 1st MPT 1x(1+0)	N	\$ 7,025.00	68%	\$ 2,248.00
3EM24123AM	Stacking Filter 6 GHz Freq Div W/G Kit 1st MPT 2x(1+0)	N	\$ 6,200.00	68%	\$ 1,984.00
3EM24123AZ	Stacking Filter 6 GHz Freq Div W/G Kit 1st & 2nd MPT 3x(1+0)	N	\$ 7,750.00	68%	\$ 2,480.00
3EM24123AN	Stacking Filter 6 GHz Freq Div W/G Kit 1st & 2nd MPT 4x(1+0)	N	\$ 6,680.00	68%	\$ 2,137.60
3EM24123BA	Stacking Filter 6 GHz Freq Div W/G Kit 3rd MPT 2nd dir 1x(1+0)	N	\$ 7,250.00	68%	\$ 2,320.00
3EM24123AP	Stacking Filter 6 GHz Freq Div W/G Kit 3rd MPT 2nd dir 2x(1+0)	N	\$ 5,723.00	68%	\$ 1,831.36
3EM24123BB	Stacking Filter 6 GHz Freq Div W/G Kit 3rd & 4th MPT 2nd dir 3x(1+0)	N	\$ 7,975.00	68%	\$ 2,552.00
3EM24123AQ	Stacking Filter 6 GHz Freq Div W/G Kit 3rd & 4th MPT 2nd dir 4x(1+0)	N	\$ 6,947.00	68%	\$ 2,223.04
3EM24123BV	Stacking Filter 6 GHz Freq Div W/G Kit 2nd MPT 2nd Dir 2x(1+0)	N	\$ 4,875.00	68%	\$ 1,560.00
3EM24123BU	Stacking Filter 6 GHz Freq Div W/G Kit 2nd MPT 2nd Dir 1x(1+0)	N	\$ 4,700.00	68%	\$ 1,504.00
3EM24123BC	Stckg Fltr 6 GHz Freq Div W/G Kit Add-on 2nd/4th MPT Grow to 3x(1+0)	N	\$ 1,650.00	68%	\$ 528.00
3EM24123BD	Stckg Fltr 6 GHz Freq Div W/G Kit Add-on 2nd/4th MPT Grow to 4x(1+0)	N	\$ 1,725.00	68%	\$ 552.00
3EM24123BE	Stacking Filter 6 GHz Freq Div W/G Kit Add-On Kit Grow 2nd or 4th MPT	N	\$ 875.00	68%	\$ 280.00
3EM24123BH	1st MPT Add Space Div to 1x(1+0) Kit (SD FD)	N	\$ 2,950.00	68%	\$ 944.00
3EM24123BJ	1st MPT Add Space Div to 2x(1+0) Kit (SD FD)	N	\$ 2,900.00	68%	\$ 928.00
3EM24123BK	1st & 2nd MPT Add Space Div to 3x(1+0) Kit (SD FD)	N	\$ 2,850.00	68%	\$ 912.00
3EM24123BL	1st & 2nd MPT Add Space Div to 4x(1+0) Kit (SD FD)	N	\$ 2,825.00	68%	\$ 904.00
3EM24123BM	3rd MPT Add Space Div to 1x(1+0) Kit (SD FD)	N	\$ 2,350.00	68%	\$ 752.00
3EM24123BN	3rd MPT Add Space Div to 2x(1+0) Kit (SD FD)	N	\$ 2,325.00	68%	\$ 744.00
3EM24123BP	3rd & 4th MPT Add Space Div to 3x(1+0) Kit (SD FD)	N	\$ 2,750.00	68%	\$ 880.00
3EM24123BQ	3rd & 4th MPT Add Space Div to 4x(1+0) Kit (SD FD)	N	\$ 2,800.00	68%	\$ 896.00
3EM24123BS	Field Add-On 2nd MPT to 1x(1+0) Kit or 4th MPT to 3x(1+0) (SD FD)	N	\$ 435.00	68%	\$ 139.20
3EM24123BT	Field Add-On 3rd MPT to 2x(1+0) Kit (SD FD)	N	\$ 875.00	68%	\$ 280.00



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Waveguide Extention Kits - Table L					
3EM24123AR	6 GHz W/G Extension Kit Xmt/Rcv A8-A11	N	\$ 2,250.00	68%	\$ 720.00
3EM24123AS	6 GHz W/G Extension Kit Space Div A8-A11 (MPT-HL)	N	\$ 2,200.00	68%	\$ 704.00
3EM24123AV	6 GHz W/G Extension Kit Space Div A8-A11 (MPT-HLC)	N	\$ 2,885.00	68%	\$ 923.20
3EM24123AU	6 GHz W/G Extension A8 to Top (Xmt/Rcv or Space Div)	N	\$ 1,100.00	68%	\$ 352.00
3EM24123AT	6 GHz W/G Extension A3 to A8, A5 to A10 (Xmt/Rcv or Space Div)	N	\$ 670.00	68%	\$ 214.40
3EM17592AA	Bracket, WG Support (1 hole)	N	\$ 52.00	68%	\$ 16.64
3EM17592AB	Bracket, WG Support (2 hole)	N	\$ 71.00	68%	\$ 22.72
3EM23867AC	Bracket, WG Support (2 hole)	N	\$ 155.00	68%	\$ 49.60
Stacking Filter Waveguide Kits- 11 Ghz - Table H					
3EM24166EA	Stacking Filter WG Initial Comb Assy 11 GHz 1st MPT HSB	N	\$ 2,609.00	68%	\$ 834.88
3EM24166EB	Stacking Filter WG Initial Comb Assy 11 GHz 1st & 2nd MPT HSB	N	\$ 3,436.00	68%	\$ 1,099.52
3EM24166EC	Stacking Filter WG Add-on Assy 11 GHz 3rd MPT HSB	N	\$ 2,605.00	68%	\$ 833.60
3EM24166ED	Stacking Filter WG Add-on Assy 11 GHz 3rd & 4th MPT HSB	N	\$ 3,392.00	68%	\$ 1,085.44
3EM24166EE	Stacking Filter 11 GHz Hot Siby W/G Kit Add-On 3rd MPT	N	\$ 2,290.00	68%	\$ 732.80
3EM24166EF	Stacking Filter 11 GHz Hot Siby W/G Kit Add-On 3rd & 4th MPT	N	\$ 2,915.00	68%	\$ 932.80
3EM24166EG	Stacking Filter 11 GHz Hot Siby W/G Kit Add-On 2nd or 4th MPT	N	\$ 875.00	68%	\$ 280.00
3EM24166FE	Stacking Filter WG Add SD Assy 11 GHz 1st MPT (HSB)	N	\$ 2,249.00	68%	\$ 719.68
3EM24166FF	Stacking Filter WG Add SD Assy 11 GHz 1st & 2nd MPT (HSB)	N	\$ 2,794.00	68%	\$ 894.08
3EM24166GF	Stacking Filter 11 GHz Add-on Space Kit 3rd MPT (HSB)	N	\$ 1,395.00	68%	\$ 446.40
3EM24166GG	Stacking Filter 11 GHz Add-on Space Kit 3rd & 4th MPT (HSB)	N	\$ 1,995.00	68%	\$ 638.40
3EM24166FG	Stacking Filter WG Add SD Assy 11 GHz 3rd MPT (HSB)	N	\$ 2,482.00	68%	\$ 794.24
3EM24166FH	Stacking Filter WG Add SD Assy 11 GHz 3rd & 4th MPT (HSB)	N	\$ 2,856.00	68%	\$ 913.92
3EM24166GR	Stacking Filter 11 GHz Add-on Space Kit 2nd or 4th MPT (HSB)	N	\$ 950.00	68%	\$ 304.00
3EM24166AJ	Stacking Filter Initial Bracket Kit	N	\$ 165.00	68%	\$ 52.80
3EM24123AK	Stacking Filter Flat Bracket Kit	N	\$ 99.00	68%	\$ 31.68
3EM24123AW	Stacking Filter Stacker Bracket Kit	N	\$ 165.00	68%	\$ 52.80
3EM24166AK	Stacking Filter Add-on XMT & RCV Circulators	N	\$ 1,059.00	68%	\$ 338.88
3EM24166FY	Stacking Filter 11 GHz Freq Div W/G Kit 1st MPT 1x(1+0)	N	\$ 5,450.00	68%	\$ 1,744.00
3EM24166FL	Stacking Filter 11 GHz Freq Div W/G Kit 1st MPT 2x(1+0)	N	\$ 6,017.00	68%	\$ 1,925.44
3EM24166FZ	Stacking Filter 11 GHz Freq Div W/G Kit 1st & 2nd MPT 3x(1+0)	N	\$ 7,250.00	68%	\$ 2,320.00
3EM24166FM	Stacking Filter 11 GHz Freq Div W/G Kit 1st & 2nd MPT 4x(1+0)	N	\$ 6,989.00	68%	\$ 2,236.48
3EM24166GA	Stacking Filter 11 GHz Freq Div W/G Kit 3rd MPT 2nd dir 1x(1+0)	N	\$ 6,150.00	68%	\$ 1,968.00
3EM24166FN	Stacking Filter 11 GHz Freq Div W/G Kit 3rd MPT 2x(1+0)	N	\$ 6,295.00	68%	\$ 2,014.40
3EM24166GB	Stacking Filter 11 GHz Freq Div W/G Kit 3rd & 4th MPT 2nd dir 3x(1+0)	N	\$ 7,850.00	68%	\$ 2,512.00
3EM24166FP	Stacking Filter 11 GHz Freq Div W/G Kit 3rd & 4th MPT 4x(1+0)	N	\$ 7,641.00	68%	\$ 2,445.12
3EM24166GV	Stacking Filter 11 GHz Freq Div W/G Kit 2nd MPT 2nd Dir 2x(1+0)	N	\$ 5,500.00	68%	\$ 1,760.00
3EM24166GU	Stacking Filter 11 GHz Freq Div W/G Kit 2nd MPT 2nd Dir 1x(1+0)	N	\$ 4,700.00	68%	\$ 1,504.00
3EM24166GC	Stckg Fltr 11 GHz Freq Div W/G Kit Add-on 2nd/4th MPT Grow to 3x(1+0)	N	\$ 1,825.00	68%	\$ 584.00
3EM24166GD	Stckg Fltr 11 GHz Freq Div W/G Kit Add-on 2nd/4th MPT Grow to 4x(1+0)	N	\$ 1,775.00	68%	\$ 568.00
3EM24166GE	Stacking Filter 11 GHz Freq Div W/G Kit Add-On Kit Grow 2nd MPT	N	\$ 1,425.00	68%	\$ 456.00
3EM24166GW	Stacking Filter 11 GHz Freq Div W/G Kit Add-On Kit Grow 4th MPT	N	\$ 1,275.00	68%	\$ 408.00
3EM24166GH	1st MPT Add Space Div to 1x(1+0) Kit (SD FD)	N	\$ 2,145.00	68%	\$ 686.40
3EM24166GJ	1st MPT Add Space Div to 2x(1+0) Kit (SD FD)	N	\$ 2,550.00	68%	\$ 816.00
3EM24166GK	1st & 2nd MPT Add Space Div to 3x(1+0) Kit (SD FD)	N	\$ 3,000.00	68%	\$ 960.00
3EM24166GL	1st & 2nd MPT Add Space Div to 4x(1+0) Kit (SD FD)	N	\$ 3,200.00	68%	\$ 1,024.00
3EM24166GM	3rd MPT Add Space Div to 1x(1+0) Kit (SD FD)	N	\$ 1,975.00	68%	\$ 632.00
3EM24166GN	3rd MPT Add Space Div to 2x(1+0) Kit (SD FD)	N	\$ 2,375.00	68%	\$ 760.00
3EM24166GP	3rd & 4th MPT Add Space Div to 3x(1+0) Kit (SD FD)	N	\$ 2,850.00	68%	\$ 912.00
3EM24166GQ	3rd & 4th MPT Add Space Div to 4x(1+0) Kit (SD FD)	N	\$ 3,000.00	68%	\$ 960.00
3EM24166GS	Field Add-On 2nd MPT to 1x(1+0) Kit (SD FD)	N	\$ 725.00	68%	\$ 232.00
3EM24166GY	Field Add-On 4th MPT to 3x(1+0) Kit (SD FD)	N	\$ 635.00	68%	\$ 203.20
3EM24166GT	Field Add-On 3rd MPT to 2x(1+0) Kit (SD FD)	N	\$ 900.00	68%	\$ 288.00
3EM24166GZ	Add-on Space Div W/G Kit 1st MPT 1x(1+0)	N	\$ 2,250.00	68%	\$ 720.00
3EM24166HA	Add-on Space Div W/G Kit 1st MPT 2x(1+0)	N	\$ 2,625.00	68%	\$ 840.00
Waveguide Extention Kits - Table L					
3EM24166AQ	11 GHz WG Ext Xmt-Rev Kit Positions A8-A11 Left or Right	N	\$ 1,825.00	68%	\$ 584.00
3EM24166AR	11 GHz W/G Extension Kit Space Div A8-A11 (MPT-HL)	N	\$ 2,025.00	68%	\$ 648.00
3EM24166AV	11 GHz W/G Extension Kit Space Div A8-A11 (MPT-HLC)	N	\$ 2,050.00	68%	\$ 656.00
RF Stacking Filters - 6 GHz Table J					
3EM16948AG	RCV RF Stacking Filter 5725-5850 MHz	N	\$ 900.00	68%	\$ 288.00
3EM16949AG	XMT RF Stacking Filter 5725-5850 MHz	N	\$ 900.00	68%	\$ 288.00
3EM16948AA	RCV RF Stacking Filter 5925-6175 MHz	N	\$ 1,100.00	68%	\$ 352.00
3EM16949AB	XMT RF Stacking Filter 6175-6425 MHz	N	\$ 1,150.00	68%	\$ 368.00
3EM16948AB	RCV RF Stacking Filter 6175-6425 MHz	N	\$ 1,200.00	68%	\$ 384.00
3EM16949AA	XMT RF Stacking Filter 5925-6175 MHz	N	\$ 1,650.00	68%	\$ 528.00
3DB76113AA	RF Stacking Filter 5925-6175 MHz (XMT or RCV)	N	\$ 750.00	68%	\$ 240.00
3DB76114AA	RF Stacking Filter 6175-6425 MHz (XMT or RCV)	N	\$ 750.00	68%	\$ 240.00
3DB76092AA	60 MHz Filter Flange Adapter Kit	N	\$ 77.00	68%	\$ 24.64



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3EM16948AD	RCV RF Stacking Filter 6525-6875 MHz	N	\$ 950.00	68%	\$ 304.00
3EM16949AD	XMT RF Stacking Filter 6525-6875 MHz	N	\$ 950.00	68%	\$ 304.00
3EM16948AE	RCV RF Stacking Filter 6440-6740 MHz	N	\$ 1,700.00	68%	\$ 544.00
3EM16949AF	XMT RF Stacking Filter 6740-7080 MHz	N	\$ 1,250.00	68%	\$ 400.00
3EM16948AF	RCV RF Stacking Filter 6740-7080 MHz	N	\$ 1,250.00	68%	\$ 400.00
3EM16949AE	XMT RF Stacking Filter 6440-6740 MHz	N	\$ 1,220.00	68%	\$ 390.40
RF Stacking Filters - 11 GHz - Table J					
3EM24166JC	RF Filter Kit, Rcv 10.7 - 11.2, 30 MHz BW	N	\$ 1,550.00	68%	\$ 496.00
3EM24166JD	RF Filter Kit, Rev 11.2 - 11.7, 30 MHz BW	N	\$ 1,550.00	68%	\$ 496.00
3EM24166JA	RF Filter Kit, Xmt 10.7 - 11.2, 30 MHz BW	N	\$ 1,550.00	68%	\$ 496.00
3EM24166JB	RF Filter Kit, Xmt 11.2 - 11.7, 30 MHz BW	N	\$ 1,550.00	68%	\$ 496.00
3EM24166JE	RF Filter Kit, 10.7 - 11.2, 60 MHz CH	N	\$ 1,550.00	68%	\$ 496.00
3EM24166JF	RF Filter Kit, 11.2 - 11.7, 60 MHz CH	N	\$ 1,550.00	68%	\$ 496.00
Cable Kits - Table J1					
3EM23523AJ	Stacking Cable Assy Hot Standby 1:10 Coupler	N	\$ 1,145.00	68%	\$ 366.40
3EM23523AK	Stacking Cable Assy Hot Standby W/ Space Diversity	N	\$ 1,150.00	68%	\$ 368.00
3EM23523AL	Stacking Cable Assy Freq Diversity 2x(1+0)	N	\$ 450.00	68%	\$ 144.00
3EM23523AM	Stacking Cable Assy 1+0 Non-Standby Circulators Right-Rear	N	\$ 200.00	68%	\$ 64.00
3EM23523AN	Stacking Cable Assy 1+0 Non-Standby Circulators Left-Rear	N	\$ 235.00	68%	\$ 75.20
3EM23523AP	Stacking Cable Assy Expansion to 2x(1+0) Circulators Right-Rear	N	\$ 235.00	68%	\$ 75.20
3EM23523AQ	Stacking Cable Assy Expansion to 2x(1+0) Circulators Left-Rear	N	\$ 200.00	68%	\$ 64.00
3EM23523AR	Stacking Cable Assy Hot-Standby, Space Div w/ Combiner	N	\$ 1,345.00	68%	\$ 430.40
3EM23523AS	Stacking Cable Assy Freq Diversity 2x(1+0), Space Div with Combiner	N	\$ 500.00	68%	\$ 160.00
3EM23523AT	Freq Div 1x(1+0), Space Div w/Combiner Circulators Right-Rear	N	\$ 285.00	68%	\$ 91.20
3EM23523AU	Freq Div 1x(1+0), Space Div w/Combiner Circulators Left-Rear	N	\$ 350.00	68%	\$ 112.00
3EM23523AV	Expansion to 2x(1+0), SD w/ Combiner Circulators Right-Rear	N	\$ 345.00	68%	\$ 110.40
3EM23523AW	Expansion to 2x(1+0), SD w/ Combiner Circulators Left-Rear	N	\$ 290.00	68%	\$ 92.80
3EM23523AY	Hot Standby w/ Transmitter Diversity Antenna	N	\$ 2,500.00	68%	\$ 800.00
Isolator Kits - L6 - Table J2					
3EM23524AA	Isolator Assy Lower 6 GHz Hot Standby 1:10 Coupler	N	\$ 461.00	68%	\$ 147.52
3EM23524AB	Isolator Assy Lower 6 GHz Hot Standby Space Diversity or FD	N	\$ 449.00	68%	\$ 143.68
3EM23524AC	Isolator Assy Lower 6 GHz 1+0 (Non-Standby)	N	\$ 224.00	68%	\$ 71.68
3EM23524AG	Isolator Assy Lower 6 GHz 1+1 HSB, Space Div w/ Combiner	N	\$ 840.00	68%	\$ 268.80
3EM23524AH	Isolator Assy Lower 6 GHz 2x(1+0), Space Div w/ Combiner	N	\$ 720.00	68%	\$ 230.40
3EM23524AJ	Isolator Assy Lower 6 GHz 1+0, Space Div w/ Combiner	N	\$ 360.00	68%	\$ 115.20
3EM23524AK	Isolator Assy Lower 6 GHz Hot-Standby w/ Transmit Diversity Antenna	N	\$ 775.00	68%	\$ 248.00
Isolator Kits - U6 - Table J2					
3EM23524AD	Isolator Assy Upper 6 GHz Hot Standby 1:10 Coupler	N	\$ 479.00	68%	\$ 153.28
3EM23524AE	Isolator Assy Upper 6 GHz Hot Standby Space Diversity or FD	N	\$ 466.00	68%	\$ 149.12
3EM23524AF	Isolator Assy Upper 6 GHz 1+0 (Non-Standby)	N	\$ 233.00	68%	\$ 74.56
3EM23524AL	Isolator Assy Upper 6 GHz 1+1 HSB, Space Div w/ Combiner	N	\$ 925.00	68%	\$ 296.00
3EM23524AM	Isolator Assy Upper 6 GHz 2x(1+0), Space Div w/ Combiner	N	\$ 800.00	68%	\$ 256.00
3EM23524AN	Isolator Assy Upper 6 GHz 1+0, Space Div w/ Combiner	N	\$ 400.00	68%	\$ 128.00
3EM23524AP	Isolator Assy Upper 6 GHz Hot-Standby w/ Transmit Diversity Antenna	N	\$ 895.00	68%	\$ 286.40
Isolator Kits - 10.5/11 GHz - Table J2					
3EM24189AA	Isolator Assy 10.5/11 GHz Hot Standby 1:10 Coupler	N	\$ 526.00	68%	\$ 168.32
3EM24189AB	Isolator Assy 10.5/11 GHz Hot Standby Space Diversity or FD	N	\$ 512.00	68%	\$ 163.84
3EM24189AC	Isolator Assy 10.5/11 GHz 1+0 (Non-Standby)	N	\$ 256.00	68%	\$ 81.92
3EM24189AD	Isolator Assy 10.5/11 GHz 1+1 HSB, Space Div w/ Combiner	N	\$ 960.00	68%	\$ 307.20
3EM24189AE	Isolator Assy 10.5/11 GHz 2x(1+0), Space Div w/ Combiner	N	\$ 740.00	68%	\$ 236.80
3EM24189AF	Isolator Assy 10.5/11 GHz 1+0, Space Div w/ Combiner	N	\$ 370.00	68%	\$ 118.40
3EM24189AH	Isolator Assy 10.5 GHz Hot-Standby w/ Transmit Diversity Antenna	N	\$ 1,030.00	68%	\$ 329.60
3EM24189AG	Isolator Assy 11 GHz Hot-Standby w/ Transmit Diversity Antenna	N	\$ 925.00	68%	\$ 296.00
Flange Adapter Kit - Table J3					
3MU00179CA	W/G Flange CPR-137 Kit, 1 Port	N	\$ 250.00	68%	\$ 80.00
3MU00179CB	W/G Flange CPR-159 Kit, 1 Port	N	\$ 250.00	68%	\$ 80.00
3MU00179CC	W/G Flange CMR -159 Kit, 1 Port	N	\$ 250.00	68%	\$ 80.00
3MU00179CE	W/G Flange CPR-90 Kit, 1 Port	N	\$ 250.00	68%	\$ 80.00
Waveguide - Table H					
ACCP Lower 6 GHz					
3DB76151AB	KIT SUPPORT WG R70 UP/DOWN	N	\$ 540.00	68%	\$ 172.80
3DB76152AC	KIT BRANCHING CHI SIDE UP	N	\$ 1,835.00	68%	\$ 587.20
3DB76153AC	KIT BRANCHING CHI DOWN	N	\$ 2,150.00	68%	\$ 688.00
3DB76154AB	KIT EXPANSION BRACKETS CHANNELS 3-5-7 UP/DOWN	N	\$ 385.00	68%	\$ 123.20
3DB76155AB	KIT EXPANSION TX-RX CHANNELS 3-5-7	N	\$ 525.00	68%	\$ 168.00



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3DB76156AB	KIT EXPANSION TX-RX CH.2-4-6-8	N	\$ 400.00	68%	\$ 128.00
3DB76157AC	KIT BRANCHING RX-DIV CH1 UP	N	\$ 575.00	68%	\$ 184.00
3DB76158AC	KIT BRANCHING RX-DIV CH1 DOWN	N	\$ 1,175.00	68%	\$ 376.00
3DB76159AB	KIT EXTENSION RX DIV. CHANNELS 3-5-7	N	\$ 250.00	68%	\$ 80.00
3DB76161AB	KIT EXTENSION RX-DIV.CHANNELS 2-4-6-8 UP/DOWN	N	\$ 200.00	68%	\$ 64.00
3DB76285AA	5.9-6.95 GHz circulator, RX	N	\$ 320.00	68%	\$ 102.40
3DB76285BA	5.9-6.95 GHz circulator, TX	N	\$ 330.00	68%	\$ 105.60
3DB01185AA	WR137 Power Absorber 5.6-7.1 GHz	N	\$ 103.00	68%	\$ 32.96
3DB02412AA	FLANGED STUB L=47MM (x CH2)	N	\$ 65.00	68%	\$ 20.80
3DB02414AA	FLANGED STUB L=141 MM (x CH3)	N	\$ 112.00	68%	\$ 35.84
3DB02415AA	FLANGED STUB L=188 MM (x CH4)	N	\$ 114.00	68%	\$ 36.48
3DB02417AA	FLANGED STUB L=282 MM (x CH5)	N	\$ 125.00	68%	\$ 40.00
3DB02418AA	FLANGED STUB L=329 MM (x CH6)	N	\$ 125.00	68%	\$ 40.00
3DB24240AA	FLANGED STUB L=423 MM (x CH7)	N	\$ 135.00	68%	\$ 43.20
3DB76146AA	FLANGED STUB R70 L=470 MM (x CH8)	N	\$ 205.00	68%	\$ 65.60
3DB76145AA	FLANGED STUB R70 (CPR137)	N	\$ 228.00	68%	\$ 72.96
3DB76246AA	FLANGED STUB R70 (L=210mm) (CMR137)	N	\$ 228.00	68%	\$ 72.96
3DB76131AA	TUNED 6 CAV FILTER 5.90-6.20 GHz CH 30 MHz	N	\$ 925.00	68%	\$ 296.00
3DB76132AA	TUNED 6 CAV FILTER 6.15-6.45 GHz CH 30 MHz	N	\$ 925.00	68%	\$ 296.00
3DB76286AA	TUNED 6 CAV FILTER 6.4-6.75 GHz CH 30 MHz (BW 25.5MHz)	N	\$ 715.00	68%	\$ 228.80
3DB76287AA	TUNED 6 CAV FILTER 6.7-7.1 GHz CH 30 MHz (BW 25.5 MHz)	N	\$ 715.00	68%	\$ 228.80
3DB76197AA	REJECTION FILTER 3 cav. 6L INF	N	\$ 520.00	68%	\$ 166.40
3DB76198AA	REJECTION FILTER 3 cav. 6L SUP	N	\$ 520.00	68%	\$ 166.40
3DB76113AA	RF Stacking Filter 5925-6175 MHz (XMT or RCV) 60 MHz	N	\$ 750.00	68%	\$ 240.00
3DB76114AA	RF Stacking Filter 6175-6425 MHz (XMT or RCV) 60 MHz	N	\$ 750.00	68%	\$ 240.00
3DB76199AA	REJECTION FILTER 6 CAV. 6L INF (Only for Ch 60 MHz)	N	\$ 515.00	68%	\$ 164.80
3DB76200AA	REJECTION FILTER 6 CAV. 6L SUP (Only for Ch 60 MHz)	N	\$ 515.00	68%	\$ 164.80
3CC50266AB	KIT SCREW FOR DOUBLE REJECTION FILTERS	N	\$ 5.00	68%	\$ 1.60
3DB80438AA	SHORTING PLATE KIT	N	\$ 55.00	68%	\$ 17.60
3DB76258AB	KIT BRANCHING TX SPLIT ON RXD 1+0 UP	N	\$ 3,050.00	68%	\$ 976.00
3DB76259AB	KIT BRANCHING TX SPLIT ON RXD 1+0 DOWN	N	\$ 3,850.00	68%	\$ 1,232.00
3DB76261AB	KIT EXP. CONFIG. 3+0 5+0 7+0 UP/DOWN	N	\$ 935.00	68%	\$ 299.20
3DB76260AB	KIT EXP. CONFIG. 2+0 4+0 6+0 8+0 UP/DOWN	N	\$ 815.00	68%	\$ 260.80
3DB76162AA	KIT FIXING BRACKET BRANCH. CONFIG. 5+0 7+0	N	\$ 93.00	68%	\$ 29.76
3DB76262AA	KIT FIX BRACKETS TX ON RXD FOR EVEN CONFIGURATION	N	\$ 95.00	68%	\$ 30.40
1AB441920005	UW ISOLATOR COAX 5.73-6.43GHZ - 51A32-27*20dB	N	\$ 252.69	68%	\$ 80.86
1AB456210001	UW ISOLATOR COAX 5.73-6.43GHZ - 51A32-29*20dB	N	\$ 225.00	68%	\$ 72.00
1AB443880001	UW ISOLATOR COAX 6.43-7.25GHZ - 51A27-06* 20dB	N	\$ 252.69	68%	\$ 80.86
1AB470490001	UW ISOLATOR COAX 6.43-7.13GHZ - 60D294-29* 20dB	N	\$ 275.00	68%	\$ 88.00
3DB76304AA	KIT EXPANSION TX-RX CH9 6L-6U	N	\$ 1,500.00	68%	\$ 480.00
3DB76305AA	KIT EXPANSION RX DIV. CH9 6L-6U	N	\$ 750.00	68%	\$ 240.00
3DB76306AA	KIT EXPANSION CONFIG 9+0 TX-RX SPLIT ON RXD	N	\$ 1,845.00	68%	\$ 590.40
3DB76307AA	KIT BRANCHING CONFIG. 10+0 TX-RX SPLIT ON RXD	N	\$ 335.00	68%	\$ 107.20
ACCP Cable Kits Lower 6 GHz					
3EM23523CA	MPT-HLC ACCP Ch 1, 3, 5, 7 Cable Kit	N	\$ 160.00	68%	\$ 51.20
3EM23523CB	MPT-HLC ACCP Ch 2, 4, 6, 8 Cable Kit	N	\$ 160.00	68%	\$ 51.20
3EM23523CC	6 G MPT-HLC ACCP SD Ch 1,3,5,7 Cable Kit	N	\$ 80.00	68%	\$ 25.60
3EM23523CD	6 G MPT-HLC ACCP SD Ch 2,4,6,8 Cable Kit	N	\$ 80.00	68%	\$ 25.60
ACCP 11 GHz					
3DB76151AB	KIT SUPPORT WG UP/DOWN	N	\$ 540.00	68%	\$ 172.80
3DB76151AC	KIT SUPPORT WG UP/DOWN	N	\$ 415.00	68%	\$ 132.80
3DB76201AB	KIT BRANCHING TX-RX CH1 SIDE UP 11 GHz	N	\$ 1,975.00	68%	\$ 632.00
3DB76202AB	KIT BRANCHING CH1 SIDE DOWN 11 GHz	N	\$ 1,825.00	68%	\$ 584.00
3DB76203AB	KIT EXT. BRACKETS CHANNELS 3-5-7 11 GHz	N	\$ 550.00	68%	\$ 176.00
3DB76204AA	KIT EXT. TX-RX CH 3-5-7 UP/DOWN 11 GHz	N	\$ 945.00	68%	\$ 302.40
3DB76205AA	KIT EXT. TX-RX CH 2-4-6-8 UP/DOWN 11GHz	N	\$ 600.00	68%	\$ 192.00
3DB76206AB	KIT BRANCHING RX-DIV CH1 UP 11 GHz	N	\$ 915.00	68%	\$ 292.80
3DB76207AB	KIT BRANCHING RX-DIV CH1 DOWN 11 GHz	N	\$ 950.00	68%	\$ 304.00
3DB76208AA	KIT EXT RX-DIV. CH 3-5-7 UP/DOWN 11 GHz	N	\$ 475.00	68%	\$ 152.00
3DB76209AA	KIT EXT RX-DIV.CH 2-4-6-8 UP/DOWN 11 GHz	N	\$ 300.00	68%	\$ 96.00
3DB02132AA	11 GHZ CIRCULATOR	N	\$ 315.00	68%	\$ 100.80
3DB80566AA	FILTER 11.2-11.7 GHz 6 CAV.BW 40 MHz	N	\$ 1,260.00	68%	\$ 403.20
3DB80567AA	FILTER 10.7-11.2 GHz 6 CAV.BW 40 MHz	N	\$ 1,260.00	68%	\$ 403.20
3DB76228AA	FILTER 11.2-11.7 GHz 6 CAV.BW 40 MHz	N	\$ 1,420.00	68%	\$ 454.40
3DB76229AA	FILTER 10.7-11.2 GHz 6 CAV.BW 40 MHz	N	\$ 1,420.00	68%	\$ 454.40
3DB02189AA	TERMINATION 11-13GHz WR75	N	\$ 125.00	68%	\$ 40.00
3DB76215AA	FLANGED STUB R120 L=261mm (TX-RX and RXD - UP)	N	\$ 190.00	68%	\$ 60.80
3DB76223AA	DOUBLE BEND E PLANE R120 (TX-RX - DOWN)	N	\$ 540.00	68%	\$ 172.80
3DB76222AA	FLANGED STUB R120 L=39mm (2CH)	N	\$ 165.00	68%	\$ 52.80
3DB76216AA	FLANGED STUB R120 L=141mm (3CH)	N	\$ 170.00	68%	\$ 54.40
3DB76217AA	FLANGED STUB R120 L=180mm (4CH)	N	\$ 140.00	68%	\$ 44.80



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3DB76218AA	FLANGED STUB R120 L=282mm (5CH)	N	\$ 175.00	68%	\$ 56.00
3DB76219AA	FLANGED STUB R120 L=321mm (6CH)	N	\$ 175.00	68%	\$ 56.00
3DB76220AA	FLANGED STUB R120 L=423mm (7CH)	N	\$ 185.00	68%	\$ 59.20
3DB76221AA	FLANGED STUB R120 L=462mm (8CH)	N	\$ 190.00	68%	\$ 60.80
3DB80699AA	CLOSED KIT CHANNEL CIRCULATOR	N	\$ 50.00	68%	\$ 16.00
3DB76264AA	FLANGED STUB R120 L=564mm (9CH)	N	\$ 150.00	68%	\$ 48.00
3DB76265AA	FLANGED STUB R120 L=603mm (10CH)	N	\$ 188.00	68%	\$ 60.16
3DB76266AA	FLANGED STUB R120 L=705mm (11CH)	N	\$ 230.00	68%	\$ 73.60
3DB76270AA	KIT CLOSURE EMPTY SLOT	N	\$ 100.00	68%	\$ 32.00
3DB76271AA	KIT BRANCHING TX SPLIT ON RXD 1+0 UP	N	\$ 3,050.00	68%	\$ 976.00
3DB76272AA	KIT BRANCHING TX SPLIT ON RXD 1+0 DOWN	N	\$ 3,000.00	68%	\$ 960.00
3DB76281AA	KIT EXP. 2+0 TX SPLIT ON RXD UP AND DOWN	N	\$ 1,050.00	68%	\$ 336.00
3DB76273AA	KIT EXP. CONFIG. 3+0 5+0 7+0 9+0 11+0	N	\$ 1,400.00	68%	\$ 448.00
3DB76274AA	KIT EXP. CONFIG. 4+0 6+0 8+0 9+0 10+0	N	\$ 1,100.00	68%	\$ 352.00
3DB76275AA	KIT FIX. BRACK. BRANCH. CONFIG. 1+0 5+0 7+0 9+0 11+0	N	\$ 95.00	68%	\$ 30.40
3DB76276AA	KIT FIX. BRACKET TX ON RXD FOR EVEN CONFIG	N	\$ 53.00	68%	\$ 16.96
ACCP Cable Kits 11 GHz					
3EM23523CE	MPT-HLC ACCP Ch 1, 3, 5, 7 Cable Kit	N	\$ 160.00	68%	\$ 51.20
3EM23523CF	MPT-HLC ACCP Ch 2, 4, 6, 8 Cable Kit	N	\$ 160.00	68%	\$ 51.20
3EM23523CG	11 G MPT-HLC ACCP SD Ch 1,3,5,7 Cable Kit	N	\$ 80.00	68%	\$ 25.60
3EM23523CH	11 G MPT-HLC ACCP SD Ch 2,4,6,8 Cable Kit	N	\$ 80.00	68%	\$ 25.60
Outdoor PoE					
3DB19194AA	PD-9501GO/FP/AC-NA	N	\$ 1,050.00	68%	\$ 336.00
3DB19195AA	PD-OUT-MBK	N	\$ 160.00	68%	\$ 51.20
MPT-HC Cables					
3CC52191AA	Light Service alignment kit with LEMO connector	N	\$ 284.00	68%	\$ 90.88
MPT-HC CAT5e IM Table A6					
1AC016760006	Cat5e cable - GLP is per foot	N	\$ 1.15	34%	\$ 0.76
1AD040130004	Ground kit - (qty 3 per run, based on length)	N	\$ 58.52	34%	\$ 38.62
3CC50251AA	Ground kit, 2M - (qty 3 per run, based on length)	N	\$ 72.00	34%	\$ 47.52
1AB074610027	RJ-45 connector for indoor and outdoor ends of cat5e	N	\$ 8.00	34%	\$ 5.28
1AB150990002	R2CT connector protection for RJ45 outdoor	N	\$ 34.36	34%	\$ 22.68
1AD160490001	Tool HIROSE RJ45 IDU-ODU cable assembling	N	\$ 200.00	34%	\$ 132.00
MPT-HC CAT5e Cords A4					
3CC52199AE	3m Preassembled CAT5e R2TC/RJ45	N	\$ 232.00	68%	\$ 74.24
3CC52199AF	5m Preassembled CAT5e R2TC/RJ45	N	\$ 244.00	68%	\$ 78.08
3CC52199AG	10m Preassembled CAT5e R2TC/RJ45	N	\$ 272.00	68%	\$ 87.04
3CC52199AA	25m Preassembled CAT5e R2TC/RJ45	N	\$ 418.00	68%	\$ 133.76
3CC52199AJ	40m Preassembled CAT5e R2TC/RJ45	N	\$ 500.00	68%	\$ 160.00
3CC52199AB	50m Preassembled CAT5e R2TC/RJ45	N	\$ 745.00	68%	\$ 238.40
3CC52199AC	75m Preassembled CAT5e R2TC/RJ45	N	\$ 1,081.00	68%	\$ 345.92
3CC52199AD	100m Preassembled CAT5e R2TC/RJ45	N	\$ 1,408.00	68%	\$ 450.56
MPT-HC CAT5e Cords A4					
3CC50097AA	Fiber storage -pole/wall mount (100m)	N	\$ 199.26	68%	\$ 63.76
3CC50095AA	Fiber storage - rack mount (25 m)	N	\$ 325.00	68%	\$ 104.00
MPT-HC XPIC Cables Table E5					
3CC52186CA	XPIC cable 1 m	N	\$ 140.94	68%	\$ 45.10
MPT-HC Battery IM					
3CC50030AA	Single Lightning Arrest Kit	N	\$ 550.00	68%	\$ 176.00
1AB251350001	LPF for batt, 2 wire N adapter (filters 48v from ODU)	N	\$ 1,000.00	68%	\$ 320.00
1AB328430001	Lightning arrester RJ-45 router output (MPRe)	N	\$ 925.00	68%	\$ 296.00
3CC50158AA	Support for 1AB37230001 LA, max 8 LA	N	\$ 90.00	68%	\$ 28.80
3CC52188AA	N- to Free Wire	N	\$ 100.00	68%	\$ 32.00
3CC52159AA	Pig-tail, 2 wires to N-connector, 4 m (batt to N then LA, LPF...)	N	\$ 113.00	68%	\$ 36.16
3CC52167AA	N- to RJ45	N	\$ 182.00	68%	\$ 58.24
3EM23272AA	KIT SUPPORT FOR 3 CORDS N/QMA IDU	N	\$ 15.00	34%	\$ 9.90
3EM23311AA	N Jack Bulkhead to QMA Plug (14 inch)	N	\$ 69.30	34%	\$ 45.74
3EM23311AB	N Jack Bulkhead to QMA Plug (108 inch)	N	\$ 442.00	34%	\$ 291.72
1AC014320002	Coaxial Cable LMR-400 FR - price per foot	N	\$ 6.00	34%	\$ 3.96
357-9194-000	STRAIGHT MALE N MALE N COAXIAL Barrel	N	\$ 33.00	34%	\$ 21.78
1AB095530045	Connector N PPC Straight Male	N	\$ 47.00	34%	\$ 31.02
1AB095530044	Connector N PPC Right Angle Male	N	\$ 84.00	34%	\$ 55.44
1AB095530046	Connector N PPC Straight Female	N	\$ 46.60	34%	\$ 30.76
1AB383930001	Compression Tool for PPC	N	\$ 1,650.00	34%	\$ 1,089.00
1AB350440001	LMR grounding kit	N	\$ 141.75	34%	\$ 93.56



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3CC50029AA	Single Lightning Arrest Bracket	N	\$ 45.00	34%	\$ 29.70
3CC50149AA	Wall support 4 coax lightning arrestors	N	\$ 59.00	34%	\$ 38.94
UBT 5.8-6 GHz					
3DB29105AA	UBT-S 6GHz	Y	\$ 3,281.25	68%	\$ 1,050.00
3DB29106AA	UBT-S 5.8-6GHz HP	Y	\$ 8,000.00	68%	\$ 2,560.00
3DB29205AA	UBT-T 6GHz	Y	\$ 11,500.00	68%	\$ 3,680.00
3DB29206AA	UBT-T 5.8-6GHz HP	Y	\$ 13,000.00	68%	\$ 4,160.00
3DB28582AA	AIM-S 5.8GHz 63 MHz SB1	N	\$ 1,500.00	68%	\$ 480.00
3DB28582BA	AIM-S 5.8GHz 63 MHz SB2	N	\$ 1,500.00	68%	\$ 480.00
3DB28584AA	AIM-S 6GHz 150 MHz SB1	N	\$ 703.13	68%	\$ 225.00
3DB28584BA	AIM-S 6GHz 150 MHz SB2	N	\$ 1,500.00	68%	\$ 480.00
3DB28589AA	AIM-S 6GHz 160/170/180 MHz SB1	N	\$ 1,500.00	68%	\$ 480.00
3DB28589BA	AIM-S 6GHz 160/170/180 MHz SB2	N	\$ 1,500.00	68%	\$ 480.00
3DB28589CA	AIM-S 6GHz 160/170/180 MHz SB3	N	\$ 1,500.00	68%	\$ 480.00
3DB28589DA	AIM-S 6GHz 160/170/180 MHz SB4	N	\$ 1,500.00	68%	\$ 480.00
3DB28590AA	AIM-S 6GHz 252.04 MHz SB1	N	\$ 1,500.00	68%	\$ 480.00
3DB28590BA	AIM-S 6GHz 252.04 MHz SB2	N	\$ 1,500.00	68%	\$ 480.00
3DB28590CA	AIM-S 6GHz 252.04 MHz SB3	N	\$ 1,500.00	68%	\$ 480.00
3DB28591AA	AIM-S 6GHz 340 MHz SB1	N	\$ 1,500.00	68%	\$ 480.00
3DB28591BA	AIM-S 6GHz 340 MHz SB2	N	\$ 1,500.00	68%	\$ 480.00
3DB28591CA	AIM-S 6GHz 340 MHz SB3	N	\$ 1,500.00	68%	\$ 480.00
3DB28768AA	AIM-T-C L6GHz 252.04MHz SB1 SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28769AA	AIM-T-C L6GHz 252.04MHz SB2 SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28552AA	AIM-T-C 6GHz 150 MHz SB1/SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28552BA	AIM-T-C 6GHz 150 MHz SB2/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28553AA	AIM-T-C 6GHz 160/170/180 MHz SB1/SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28553BA	AIM-T-C 6GHz 160/170/180 MHz SB2/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28553CA	AIM-T-C 6GHz 160/170/180 MHz SB3/SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28553DA	AIM-T-C 6GHz 160/170/180 MHz SB4/SB4	N	\$ 2,500.00	68%	\$ 800.00
3DB28554AA	AIM-T-C 6GHz 252.04 MHz SB1/SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28554BA	AIM-T-C 6GHz 252.04 MHz SB2/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28554CA	AIM-T-C 6GHz 252.04 MHz SB3/SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28556AA	AIM-T-C 6GHz 340 MHz SB1/SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28556BA	AIM-T-C 6GHz 340 MHz SB2/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28556CA	AIM-T-C 6GHz 340 MHz SB3/SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28915AA	AIM-T-O 5.8GHz 63 MHz SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28915BA	AIM-T-O 5.8GHz 63 MHz SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28622AA	AIM-T-O 6GHz 150 MHz SB1/SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28622BA	AIM-T-O 6GHz 150 MHz SB2/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28623AA	AIM-T-O 6GHz 160/170/180 MHz SB1/SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28623BA	AIM-T-O 6GHz 160/170/180 MHz SB2/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28623CA	AIM-T-O 6GHz 160/170/180 MHz SB3/SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28623DA	AIM-T-O 6GHz 160/170/180 MHz SB4/SB4	N	\$ 2,500.00	68%	\$ 800.00
3DB28624AA	AIM-T-O 6GHz 252.04 MHz SB1/SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28624BA	AIM-T-O 6GHz 252.04 MHz SB2/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28624CA	AIM-T-O 6GHz 252.04 MHz SB3/SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB29574AA	AIM-T-O L6GHz 252.04MHz SB1/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB29579AA	AIM-T-O 6GHz 252.04MHz SB2 SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28625AA	AIM-T-O 6GHz 340 MHz SB1/SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28625BA	AIM-T-O 6GHz 340 MHz SB2/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28625CA	AIM-T-O 6GHz 340 MHz SB3/SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28507AA	AIM-T-D 5.8GHz 63 MHz SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28507BA	AIM-T-D 5.8GHz 63 MHz SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28510AA	AIM-T-D 6GHz 150 MHz SB1/SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28510BA	AIM-T-D 6GHz 150 MHz SB2/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28514AA	AIM-T-D 6GHz 160/170/180 MHz SB1/SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28514BA	AIM-T-D 6GHz 160/170/180 MHz SB2/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28514CA	AIM-T-D 6GHz 160/170/180 MHz SB3/SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28514DA	AIM-T-D 6GHz 160/170/180 MHz SB4/SB4	N	\$ 2,500.00	68%	\$ 800.00
3DB28520AA	AIM-T-D 6GHz 252.04 MHz SB1/SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28520BA	AIM-T-D 6GHz 252.04 MHz SB2/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28520CA	AIM-T-D 6GHz 252.04 MHz SB3/SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB29575AA	AIM-T-D L6GHz 252.04MHz SB1/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB29581AA	AIM-T-D 6GHz 252.04MHz SB2 SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28521AA	AIM-T-D 6GHz 340 MHz SB1/SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28521BA	AIM-T-D 6GHz 340 MHz SB2/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28521CA	AIM-T-D 6GHz 340 MHz SB3/SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB29604AA	AIM-T-D U6GHz 160MHz SB1/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB29605AA	AIM-T-D U6GHz 160MHz SB2/SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB29606AA	AIM-T-D U6GHz 160MHz SB3/SB4	N	\$ 2,500.00	68%	\$ 800.00
3DB29601AA	AIM-T-O U6GHz 160MHz SB1/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB29602AA	AIM-T-O U6GHz 160MHz SB2/SB3	N	\$ 2,500.00	68%	\$ 800.00



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3DB29603AA	AIM-T-O U6GHz 160MHz SB3/SB4	N	\$ 2,500.00	68%	\$ 800.00
3DB28765AA	AIM-T-C U6GHz 160MHz SB1/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28766AA	AIM-T-C U6GHz 160MHz SB2/SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28767AA	AIM-T-C U6GHz 160MHz SB3/SB4	N	\$ 2,500.00	68%	\$ 800.00
UBT 11 GHz					
3DB29110AC	UBT-S 10-11 GHz	Y	\$ 7,000.00	68%	\$ 2,240.00
3DB29111AC	UBT-S 10-11 GHz HP	Y	\$ 8,000.00	68%	\$ 2,560.00
3DB29210AC	UBT-T 10-11 GHz	N	\$ 11,500.00	68%	\$ 3,680.00
3DB29211AC	UBT-T 10-11 GHz HP	N	\$ 13,000.00	68%	\$ 4,160.00
3DB28210AA	AIM-S 11GHz 490-500-520-530MHz SB1	N	\$ 1,500.00	68%	\$ 480.00
3DB28210BA	AIM-S 11GHz 490-520-530MHz SB2	N	\$ 1,500.00	68%	\$ 480.00
3DB28210CA	AIM-S 11GHz 490-520-530MHz SB3	N	\$ 1,500.00	68%	\$ 480.00
3DB28210DA	AIM-S 11GHz 490-500-520-530MHz SB4	N	\$ 1,500.00	68%	\$ 480.00
3DB28211AA	AIM-T-C 11GHz 490-500-520-530MHz SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28211BA	AIM-T-C 11GHz 490-520-530MHz SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28211CA	AIM-T-C 11GHz 490-520-530MHz SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28211DA	AIM-T-C 11GHz 490-500-520-530MHz SB4	N	\$ 2,500.00	68%	\$ 800.00
3DB28212AA	AIM-T-O 11GHz 490-500-520-530MHz SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28212BA	AIM-T-O 11GHz 490-520-530MHz SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28212CA	AIM-T-O 11GHz 490-520-530MHz SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28212DA	AIM-T-O 11GHz 490-500-520-530MHz SB4	N	\$ 2,500.00	68%	\$ 800.00
3DB28227AA	AIM-T-C 11GHz 490-520-530MHz SB1 SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28228AA	AIM-T-C 11GHz 490-520-530MHz SB2 SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28229AA	AIM-T-C 11GHz 490-520-530MHz SB3 SB4	N	\$ 2,500.00	68%	\$ 800.00
3DB28289AA	AIM-T-D 11GHz 490-520-530MHz SB1	N	\$ 2,500.00	68%	\$ 800.00
3DB28289BA	AIM-T-D 11GHz 490-520-530MHz SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28289CA	AIM-T-D 11GHz 490-520-530MHz SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28289DA	AIM-T-D 11GHz 490-520-530MHz SB4	N	\$ 2,500.00	68%	\$ 800.00
3DB29607AA	AIM-T-D 11GHz 490MHz SB1/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB29608AA	AIM-T-D 11GHz 490MHz SB2/SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB29609AA	AIM-T-D 11GHz 490MHz SB3/SB4	N	\$ 2,500.00	68%	\$ 800.00
3DB29356AA	AIM-T-O 11GHz 490MHz SB1/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB29357AA	AIM-T-O 11GHz 490MHz SB2/SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB29358AA	AIM-T-O 11GHz 490MHz SB3/SB4	N	\$ 2,500.00	68%	\$ 800.00
3DB28227AA	AIM-T-C 11GHz 490MHz SB1/SB2	N	\$ 2,500.00	68%	\$ 800.00
3DB28228AA	AIM-T-C 11GHz 490MHz SB2/SB3	N	\$ 2,500.00	68%	\$ 800.00
3DB28229AA	AIM-T-O 11GHz 490MHz SB3/SB4	N	\$ 2,500.00	68%	\$ 800.00
UBT 13-15 GHz					
3DB29115AC	UBT-S 13-15 GHz	N	\$ 6,000.00	68%	\$ 1,920.00
3DB29215AC	UBT-T 13-15 GHz	N	\$ 9,750.00	68%	\$ 3,120.00
3DB28093AA	AIM-S 13GHz 225MHz SB1	N	\$ 1,200.00	68%	\$ 384.00
3DB28093BA	AIM-S 13GHz 225MHz SB2	N	\$ 1,200.00	68%	\$ 384.00
3DB28093CA	AIM-S 13GHz 225MHz SB3	N	\$ 1,200.00	68%	\$ 384.00
3DB28093DA	AIM-S 13GHz 225MHz SB4	N	\$ 1,200.00	68%	\$ 384.00
3DB28094AA	AIM-T-C 13GHz 225MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28094BA	AIM-T-C 13GHz 225MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28094CA	AIM-T-C 13GHz 225MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28094DA	AIM-T-C 13GHz 225MHz SB4	N	\$ 2,000.00	68%	\$ 640.00
3DB28095AA	AIM-T-O 13GHz 225MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28095BA	AIM-T-O 13GHz 225MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28095CA	AIM-T-O 13GHz 225MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28095DA	AIM-T-O 13GHz 225MHz SB4	N	\$ 2,000.00	68%	\$ 640.00
3DB28171AA	AIM-T-D 13GHz 225MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28171BA	AIM-T-D 13GHz 225MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28171CA	AIM-T-D 13GHz 225MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28171DA	AIM-T-D 13GHz 225MHz SB4	N	\$ 2,000.00	68%	\$ 640.00
3DB28096AA	AIM-S 13GHz 266MHz SB1	N	\$ 1,200.00	68%	\$ 384.00
3DB28096BA	AIM-S 13GHz 266MHz SB2	N	\$ 1,200.00	68%	\$ 384.00
3DB28096CA	AIM-S 13GHz 266MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28097AA	AIM-T-C 13GHz 266MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28097BA	AIM-T-C 13GHz 266MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28097CA	AIM-T-C 13GHz 266MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28098AA	AIM-T-O 13GHz 266MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28098BA	AIM-T-O 13GHz 266MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28098CA	AIM-T-O 13GHz 266MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28172AA	AIM-T-D 13GHz 266MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28172BA	AIM-T-D 13GHz 266MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28172CA	AIM-T-D 13GHz 266MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28114BA	AIM-S 15GHz 475MHz SB2	N	\$ 1,200.00	68%	\$ 384.00
3DB28114DA	AIM-S 15GHz 475MHz SB4	N	\$ 1,200.00	68%	\$ 384.00
3DB28115BA	AIM-T-C 15GHz 475MHz SB2	N	\$ 2,000.00	68%	\$ 640.00



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3DB28115DA	AIM-T-C 15GHz 475MHz SB4	N	\$ 2,000.00	68%	\$ 640.00
3DB28116BA	AIM-T-O 15GHz 475MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28116DA	AIM-T-O 15GHz 475MHz SB4	N	\$ 2,000.00	68%	\$ 640.00
3DB28123AA	AIM-S 15GHz 640MHz SB1	N	\$ 1,200.00	68%	\$ 384.00
3DB28124AA	AIM-T-C 15GHz 640MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28125AA	AIM-T-O 15GHz 640MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28177BA	AIM-T-D 15GHz 475MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28177DA	AIM-T-D 15GHz 475MHz SB4	N	\$ 2,000.00	68%	\$ 640.00
3DB28180AA	AIM-T-D 15GHz 640MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
UBT 18 GHz					
3DB29118AB	UBT-S 18 GHz	Y	\$ 6,000.00	68%	\$ 1,920.00
3DB29218AB	UBT-T 18 GHz	Y	\$ 9,750.00	68%	\$ 3,120.00
3DB28066AB	AIM-S 18GHz 1560MHz SB1 (integrated and non-integrated antenna)	N	\$ 1,200.00	68%	\$ 384.00
3DB28071AA	AIM-T-C 18GHz 1560MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28072AA	AIM-T-O 18GHz 1560MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28185AA	AIM-T-D 18GHz 1560MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
UBT 23 GHz					
3DB29123AB	UBT-S 23 GHz	N	\$ 6,000.00	68%	\$ 1,920.00
3DB29223AB	UBT-T 23 GHz	N	\$ 9,750.00	68%	\$ 3,120.00
3DB28090AA	AIM-S 23GHz 1200MHz SB1	N	\$ 1,200.00	68%	\$ 384.00
3DB28090BA	AIM-S 23GHz 1200MHz SB2	N	\$ 1,200.00	68%	\$ 384.00
3DB28090CA	AIM-S 23GHz 1200MHz SB3	N	\$ 1,200.00	68%	\$ 384.00
3DB28091AA	AIM-T-C 23GHz 1200MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28091BA	AIM-T-C 23GHz 1200MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28091CA	AIM-T-C 23GHz 1200MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28222AA	AIM-T-C 23GHz 1200MHz SB1 SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28223AA	AIM-T-C 23GHz 1200MHz SB2 SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28092AA	AIM-T-O 23GHz 1200MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28092BA	AIM-T-O 23GHz 1200MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28092CA	AIM-T-O 23GHz 1200MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28744AA	AIM-T-O 23GHz 1200MHz SB1/SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28745AA	AIM-T-O 23GHz 1200MHz SB2/SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28189AA	AIM-T-D 23GHz 1200MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28189BA	AIM-T-D 23GHz 1200MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28189CA	AIM-T-D 23GHz 1200MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB29612AA	AIM-T-D 23GHz 1200MHz SB1/SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB29613AA	AIM-T-D 23GHz 1200MHz SB2/SB3	N	\$ 2,000.00	68%	\$ 640.00
UBT 24-26 GHz					
3DB29126AA	UBT-S 24-26 GHz	Y	\$ 6,000.00	68%	\$ 1,920.00
3DB29226AA	UBT-T 24-26 GHz	Y	\$ 9,750.00	68%	\$ 3,120.00
3DB28152AA	AIM-S 24GHz 800MHz SB1	N	\$ 1,200.00	68%	\$ 384.00
3DB28153AA	AIM-T-C 24GHz 800MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28154AA	AIM-T-O 24GHz 800MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28190AA	AIM-T-D 24GHz 800MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
UBT 28-32 GHz					
3DB29132AA	UBT-S 28-32 GHz	Y	\$ 6,000.00	68%	\$ 1,920.00
3DB29232AA	UBT-T 28-32 GHz	Y	\$ 9,750.00	68%	\$ 3,120.00
3DB28666AA	AIM-S 28GHz 430-450MHz SB1	N	\$ 1,200.00	68%	\$ 384.00
3DB28666BA	AIM-S 28GHz 430-450MHz SB2	N	\$ 1,200.00	68%	\$ 384.00
3DB28666CA	AIM-S 28GHz 430-450MHz SB3	N	\$ 1,200.00	68%	\$ 384.00
3DB28666DA	AIM-S 28GHz 430-450MHz SB4	N	\$ 1,200.00	68%	\$ 384.00
3DB28669AA	AIM-T-C 28GHz 430-450MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28669BA	AIM-T-C 28GHz 430-450MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28669CA	AIM-T-C 28GHz 430-450MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28669DA	AIM-T-C 28GHz 430-450MHz SB4	N	\$ 2,000.00	68%	\$ 640.00
3DB28672AA	AIM-T-O 28GHz 430-450MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28672BA	AIM-T-O 28GHz 430-450MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28672CA	AIM-T-O 28GHz 430-450MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28672DA	AIM-T-O 28GHz 430-450MHz SB4	N	\$ 2,000.00	68%	\$ 640.00
3DB28675AA	AIM-T-D 28GHz 430-450MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28675BA	AIM-T-D 28GHz 430-450MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28675CA	AIM-T-D 28GHz 430-450MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28675DA	AIM-T-D 28GHz 430-450MHz SB4	N	\$ 2,000.00	68%	\$ 640.00
3DB28668AA	AIM-S 32GHz 812MHz SB1	N	\$ 1,200.00	68%	\$ 384.00
3DB28668BA	AIM-S 32GHz 812MHz SB2	N	\$ 1,200.00	68%	\$ 384.00
3DB28671AA	AIM-T-C 32GHz 812MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28671BA	AIM-T-C 32GHz 812MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28674AA	AIM-T-O 32GHz 812MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28674BA	AIM-T-O 32GHz 812MHz SB2	N	\$ 2,000.00	68%	\$ 640.00



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3DB28677AA	AIM-T-D 32GHz 812MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28677BA	AIM-T-D 32GHz 812MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
UBT 38 GHz					
3DB29138AB	UBT-S 38 GHz	Y	\$ 6,000.00	68%	\$ 1,920.00
3DB29238AB	UBT-T 38 GHz	Y	\$ 9,750.00	68%	\$ 3,120.00
3DB28058AA	AIM-S 38GHz 700MHz SB1	N	\$ 1,200.00	68%	\$ 384.00
3DB28058BA	AIM-S 38GHz 700MHz SB2	N	\$ 1,200.00	68%	\$ 384.00
3DB28058CA	AIM-S 38GHz 700MHz SB3	N	\$ 1,200.00	68%	\$ 384.00
3DB28058DA	AIM-S 38GHz 700MHz SB4	N	\$ 1,200.00	68%	\$ 384.00
3DB28060AA	AIM-T-C 38GHz 700MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28060BA	AIM-T-C 38GHz 700MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28060CA	AIM-T-C 38GHz 700MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28060DA	AIM-T-C 38GHz 700MHz SB4	N	\$ 2,000.00	68%	\$ 640.00
3DB28061AA	AIM-T-O 38GHz 700MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28061BA	AIM-T-O 38GHz 700MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28061CA	AIM-T-O 38GHz 700MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28061DA	AIM-T-O 38GHz 700MHz SB4	N	\$ 2,000.00	68%	\$ 640.00
3DB28193AA	AIM-T-D 38GHz 700MHz SB1	N	\$ 2,000.00	68%	\$ 640.00
3DB28193BA	AIM-T-D 38GHz 700MHz SB2	N	\$ 2,000.00	68%	\$ 640.00
3DB28193CA	AIM-T-D 38GHz 700MHz SB3	N	\$ 2,000.00	68%	\$ 640.00
3DB28193DA	AIM-T-D 38GHz 700MHz SB4	N	\$ 2,000.00	68%	\$ 640.00
UBT-m					
3DB29170AB	UBT-m 80 GHz Low	Y	\$ 10,500.00	68%	\$ 3,360.00
3DB29180AB	UBT-m 80 GHz High	Y	\$ 10,500.00	68%	\$ 3,360.00
3DB29171AA	UBT-mX 80 GHz Low	Y	\$ 11,500.00	68%	\$ 3,680.00
3DB29181AA	UBT-mX 80 GHz High	Y	\$ 11,500.00	68%	\$ 3,680.00
3DB29178AA	UBT-mU 80 GHz Low	Y	\$ 11,000.00	68%	\$ 3,520.00
3DB29188AA	UBT-mU 80 GHz High	Y	\$ 11,000.00	68%	\$ 3,520.00
Network Interface Module					
3DB28691AA	Network Interface Module (NIM)	Y	\$ 3,450.00	68%	\$ 1,104.00
UBT Ancillary Equipment					
3CC52225AA	Q-XCO to Octis optical pigtail	N	\$ 394.00	68%	\$ 126.08
3DB28411AA	UBT-m XPIC cable 0.70 m	N	\$ 731.00	68%	\$ 233.92
3DB28410AA	XPIC cable 2.5 m for UBT-S	N	\$ 475.00	68%	\$ 152.00
3DB28410AB	XPIC cable 10 m for UBT-S	N	\$ 890.00	68%	\$ 284.80
3DB28410AC	XPIC cable 15 m for UBT-S	N	\$ 990.00	68%	\$ 316.80
3DB28410AD	XPIC cable 1 m for UBT-S	N	\$ 205.00	68%	\$ 65.60
3CC50306AA	Adaptor nose 6 GHz	N	\$ 150.00	68%	\$ 48.00
3CC50318AA	Adaptor nose 11GHz	N	\$ 150.00	68%	\$ 48.00
3CC50321AA	Adaptor nose 38-42GHz	N	\$ 135.00	68%	\$ 43.20
3CC50316AA	Adaptor nose 28-32GHz	N	\$ 150.00	68%	\$ 48.00
3CC50310AA	Adaptor nose 13GHz	N	\$ 150.00	68%	\$ 48.00
3CC50312AA	Adaptor nose 15GHz	N	\$ 150.00	68%	\$ 48.00
3CC50314AA	Adaptor nose 18-26GHz	N	\$ 130.00	68%	\$ 41.60
3CC58368AA	Coupler 3 dB 6GHz UBT	N	\$ 886.00	68%	\$ 283.52
3CC58367AA	Coupler 10 dB 6GHz UBT	N	\$ 886.00	68%	\$ 283.52
3CC58351AA	Coupler 3 dB 10/11 GHz UBT	N	\$ 1,800.00	68%	\$ 576.00
3CC58350AA	Coupler 10 dB 10/11 GHz UBT	N	\$ 886.00	68%	\$ 283.52
3CC58344AA	Coupler 3 dB 13-15 GHz UBT	N	\$ 886.00	68%	\$ 283.52
3CC58348AA	Coupler 10 dB 13-15 GHz UBT	N	\$ 886.00	68%	\$ 283.52
3CC58345AA	Coupler 3 dB 18-26 GHz UBT	N	\$ 886.00	68%	\$ 283.52
3CC58341AA	Coupler 10 dB 18-26 GHz UBT	N	\$ 886.00	68%	\$ 283.52
3CC58346AA	Coupler 3 dB 28-32 GHz UBT	N	\$ 886.00	68%	\$ 283.52
3CC58342AA	Coupler 10 dB 28-32 GHz UBT	N	\$ 886.00	68%	\$ 283.52
3CC58347BA	Coupler 3 dB 38-42 GHz UBT	N	\$ 886.00	68%	\$ 283.52
3CC58343BA	Coupler 10 dB 38-42 GHz UBT	N	\$ 886.00	68%	\$ 283.52
3CC58407AA	hybrid coupler 6 GHz 10 dB	N	\$ 886.00	68%	\$ 283.52
3CC58406AA	hybrid coupler 6 GHz 3 dB	N	\$ 886.00	68%	\$ 283.52
3CC58366AA	hybrid coupler 11 GHz 10 dB	N	\$ 886.00	68%	\$ 283.52
3CC58365AA	hybrid coupler 11 GHz 3 dB	N	\$ 886.00	68%	\$ 283.52
3CC58378AA	hybrid coupler 13 GHz 10 dB	N	\$ 886.00	68%	\$ 283.52
3CC58379AA	hybrid coupler 13 GHz 3 dB	N	\$ 886.00	68%	\$ 283.52
3CC58393AA	hybrid coupler 15 GHz 10 dB	N	\$ 886.00	68%	\$ 283.52
3CC58394AA	hybrid coupler 15 GHz 3 dB	N	\$ 886.00	68%	\$ 283.52
3CC58380AA	hybrid coupler 18-26 GHz 10 dB	N	\$ 886.00	68%	\$ 283.52
3CC58381AA	hybrid coupler 18-26 GHz 3 dB	N	\$ 886.00	68%	\$ 283.52
3CC58382AA	hybrid coupler 28-32 GHz 10 dB	N	\$ 886.00	68%	\$ 283.52
3CC58383AA	hybrid coupler 28-32 GHz 3 dB	N	\$ 886.00	68%	\$ 283.52
3CC58384AA	hybrid coupler 38 GHz 10 dB	N	\$ 886.00	68%	\$ 283.52



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3CC58385AA	hybrid coupler 38 GHz 3 dB	N	\$ 886.00	68%	\$ 283.52
3CC56939AA	Ortho Mode Transducer UBT 6 GHz	N	\$ 1,984.00	68%	\$ 634.88
3CC56875AA	Ortho Mode Transducer UBT 10/11 GHz	N	\$ 1,984.00	68%	\$ 634.88
3CC56876AA	Ortho Mode Transducer UBT 13 GHz	N	\$ 1,984.00	68%	\$ 634.88
3CC56877AA	Ortho Mode Transducer UBT 15 GHz	N	\$ 1,984.00	68%	\$ 634.88
3CC56878AA	Ortho Mode Transducer UBT 18 GHz	N	\$ 1,984.00	68%	\$ 634.88
3CC56879AA	Ortho Mode Transducer UBT 23 GHz	N	\$ 1,984.00	68%	\$ 634.88
3CC56880AA	Ortho Mode Transducer UBT 26 GHz	N	\$ 1,984.00	68%	\$ 634.88
3CC56881AA	Ortho Mode Transducer UBT 28 GHz	N	\$ 1,984.00	68%	\$ 634.88
3CC56882AA	Ortho Mode Transducer UBT 32 GHz	N	\$ 1,984.00	68%	\$ 634.88
3CC56883AA	Ortho Mode Transducer UBT 38 GHz	N	\$ 1,984.00	68%	\$ 634.88
3CC56884AA	Ortho Mode Transducer UBT 42 GHz	N	\$ 1,984.00	68%	\$ 634.88
3CC57114AA	OMT UBT 6 GHz stand-alone Commscope	N	\$ 1,000.00	68%	\$ 320.00
3CC57116AA	OMT UBT 11 GHz stand-alone Commscope	N	\$ 1,000.00	68%	\$ 320.00
3CC57117AA	OMT UBT 13-15 GHz stand-alone Commscope	N	\$ 1,000.00	68%	\$ 320.00
3CC57119AA	OMT UBT 18 GHz stand-alone Commscope	N	\$ 1,000.00	68%	\$ 320.00
3CC57120AA	OMT UBT 23 GHz stand-alone Commscope	N	\$ 1,000.00	68%	\$ 320.00
3CC57121AA	OMT UBT 26 GHz stand-alone Commscope	N	\$ 1,000.00	68%	\$ 320.00
3CC57122AA	OMT UBT 28 GHz stand-alone Commscope	N	\$ 1,000.00	68%	\$ 320.00
3CC57123AA	OMT UBT 32 GHz stand-alone Commscope	N	\$ 1,000.00	68%	\$ 320.00
3CC57124AA	OMT UBT 38 GHz stand-alone Commscope	N	\$ 1,000.00	68%	\$ 320.00
3CC57125AA	OMT UBT 42 GHz stand-alone Commscope	N	\$ 1,000.00	68%	\$ 320.00
3CC57126AA	OMT UBT 80 GHz stand-alone	N	\$ 1,250.00	68%	\$ 400.00
3CC58402AA	OMT-C UBT 6GHz Supports Any Antenna Supplier	N	\$ 5,850.00	68%	\$ 1,872.00
3CC58389AA	OMT-C UBT 10/11 GHz Supports Any Antenna Supplier	N	\$ 5,850.00	68%	\$ 1,872.00
3CC58395AA	OMT-C UBT 13 GHz Supports Any Antenna Supplier	N	\$ 5,850.00	68%	\$ 1,872.00
3CC58390AA	OMT-C UBT 15 GHz Supports Any Antenna Supplier	N	\$ 5,850.00	68%	\$ 1,872.00
3CC58391AA	OMT-C UBT 18 GHz Supports Any Antenna Supplier	N	\$ 5,850.00	68%	\$ 1,872.00
3CC58396AA	OMT-C UBT 23 GHz Supports Any Antenna Supplier	N	\$ 5,850.00	68%	\$ 1,872.00
3CC58397AA	OMT-C UBT 26 GHz Supports Any Antenna Supplier	N	\$ 5,850.00	68%	\$ 1,872.00
3CC58398AA	OMT-C UBT 28 GHz Supports Any Antenna Supplier	N	\$ 5,850.00	68%	\$ 1,872.00
3CC58399AA	OMT-C UBT 32 GHz Supports Any Antenna Supplier	N	\$ 5,850.00	68%	\$ 1,872.00
3CC58400AA	OMT-C UBT 38 GHz Supports Any Antenna Supplier	N	\$ 5,850.00	68%	\$ 1,872.00
3CC58401AA	OMT-C UBT 42 GHz Supports Any Antenna Supplier	N	\$ 5,850.00	68%	\$ 1,872.00
1AF30445AAAA	Sway Bar for OMT-C 6-8GHz	N	\$ 180.00	68%	\$ 57.60
3CC58363AA	Load for Unused Coupler 6GHz	N	\$ 175.00	68%	\$ 56.00
3CC58334AA	Pole mount for remote UBT/non-integrated ant config with AIM-C (nose adapter is needed)	N	\$ 375.00	68%	\$ 120.00
3CC58338AA	Pole mount for remote UBT/non integ ant config with AIM-D (no nose adptr needed)	N	\$ 329.00	68%	\$ 105.28
3CC50367AA	Waveguide to N-type for 5.8Ghz	N	\$ 285.00	68%	\$ 91.20
3MU00189AA	UBT-S 5.8Ghz Non-Ingreated Antenna Kit	N	\$ 755.00	68%	\$ 241.60
3MU00189AB	UBT-T 5.8Ghz Non-Ingreated Antenna Kit	N	\$ 850.00	68%	\$ 272.00
	UBT-m Install Material				
3DB29343AA	UBT-mU pole mount	N	\$ 329.00	68%	\$ 105.28
3DB29526AA	L-shaped wall bracket for UBT-mU mount	N	\$ 300.00	68%	\$ 96.00
3DB29337AA	Spacers for UBT-mU + NIM	N	\$ 31.00	68%	\$ 9.92
3DB28731AB	UBT-m optical alignment tool (needed for UBT-mU)	N	\$ 3,038.00	68%	\$ 972.16
3DB28743AA	UBT-m Lab bench assembly	N	\$ 375.00	68%	\$ 120.00
	Dual Band				
3CC56820AB	Dual Band Antenna 18/80Ghz	N	\$ 2,000.00	68%	\$ 640.00
3CC56826AB	Dual Band Antenna 23/80Ghz	N	\$ 2,100.00	68%	\$ 672.00
3CC56825AB	Dual Band Antenna 15/80Ghz	N	\$ 2,100.00	68%	\$ 672.00
3CC58386AA	OMT for Dual Band antenna 15/80 GHz	N	\$ 650.00	68%	\$ 208.00
3CC58387AA	OMT for Dual Band antenna 18/80 GHz	N	\$ 650.00	68%	\$ 208.00
3CC58388AA	OMT for Dual Band antenna 23/80 GHz	N	\$ 650.00	68%	\$ 208.00
3CC57282AA	Dual Band Antenna 18/80Ghz, 1'	N	\$ 2,000.00	68%	\$ 640.00
	Flex twist				
3CC50328AA	Flextwist 13 GHz WR75 PBR120/PBR140 1.2m	N	\$ 815.00	68%	\$ 260.80
3CC50329AA	Flextwist 15 GHz WR62 PBR140/PBR140 1.2m	N	\$ 640.00	68%	\$ 204.80
3CC50330AA	Flextwist 18 GHz WR42 PBR220/PBR220 1.2m	N	\$ 525.00	68%	\$ 168.00
3CC50341AA	Flextwist 11GHz WR90 PBR100/PBR120 1.2m	N	\$ 800.00	68%	\$ 256.00
	UBT Indoor				
3CC50332AA	ASSY Bracket UBT-S or AIM-T-C std rack	N	\$ 575.00	68%	\$ 184.00
3CC50336AA	ASSY bracket AIM-T-D std andismic rack	N	\$ 1,050.00	68%	\$ 336.00
3CC50345AA	ASSY Bracket UBT-S or AIM-T-C sism. rack	N	\$ 450.00	68%	\$ 144.00
3CC50348AA	ASSY Bend E-plane UDR70 6 GHz	N	\$ 300.00	68%	\$ 96.00
3CC50350AA	ASSY Bend E-plane UBR84 7-8 GHz	N	\$ 250.00	68%	\$ 80.00
3CC50351AA	ASSY Bend E-plane UBR100 10-11 GHz	N	\$ 250.00	68%	\$ 80.00
3CC50352AA	ASSY Bend E-plane UBR120 13 GHz	N	\$ 330.00	68%	\$ 105.60
3CC50353AA	ASSY Bend E-plane UBR140 15 GHz	N	\$ 230.00	68%	\$ 73.60



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3CC50354AA	ASSY Bend E-plane UBR220 18-26 GHz	N	\$ 220.00	68%	\$ 70.40
3CC50355AA	ASSY Bend E-plane UBR320 28-42 GHz	N	\$ 220.00	68%	\$ 70.40
UBT AIM Replacement Gaskets					
3DB28829AA	Kit gasket AIM-S 10-42GHz - spare only	N	\$ 53.00	68%	\$ 16.96
3DB28830AA	Kit gasket AIM-T 10-42GHz - spare only	N	\$ 81.00	68%	\$ 25.92
3DB28834AA	Kit gasket AIM-S 6/7/8GHz - spare only	N	\$ 65.00	68%	\$ 20.80
3DB28835AA	Kit gasket AIM-T 6/7/8GHz - spare only	N	\$ 104.00	68%	\$ 33.28
UBT Installation Material - OCTIS					
1AB235300006	OCTIS housing for powering (high protec)	N	\$ 190.00	34%	\$ 125.40
1AB235300007	OCTIS connector housing for powering	N	\$ 64.00	34%	\$ 42.24
1AB235300005	OCTIS connector housing for fibers	N	\$ 59.00	34%	\$ 38.94
1AB235300004	OCTIS connector housing for RJ45	N	\$ 35.00	34%	\$ 23.10
3CC52229AA	OCTIS Pigtail N for DC	N	\$ 320.00	34%	\$ 211.20
3CC52230AA	OCTIS Pigtail N for DC with protection	N	\$ 720.00	34%	\$ 475.20
1AB469760001	OCTIS Extension Tube	N	\$ 250.00	34%	\$ 165.00
UBT Installation Material - Misc Coax					
3EM23311AA	N Jack Bulkhead to QMA Plug (14 inch)	N	\$ 69.30	34%	\$ 45.74
3EM23311AB	N Jack Bulkhead to QMA Plug (108 inch)	N	\$ 442.00	34%	\$ 291.72
3CC52159AA	Pigtail 2-wires with N-female twd battery (indoor)	N	\$ 113.00	34%	\$ 74.58
3CC52159BA	DC pigtail N to 2 wires outdoor	N	\$ 113.00	34%	\$ 74.58
1AB357780003	QMA for coax (6.85mm) at EAC	N	\$ 53.00	34%	\$ 34.98
3CC50030AA	Lightning arrester for coax	N	\$ 286.00	34%	\$ 188.76
1AB119710002	BNC-bananas adapter for antenna alignment	N	\$ 86.00	34%	\$ 56.76
UBT Installation Material - 6.85mm Coax					
1AC041350002	Coax cable 6.85mm to power UBT (meter)	N	\$ 3.00	34%	\$ 1.98
1AB095530048	N-female for coax cable 6.85mm	N	\$ 92.00	34%	\$ 60.72
1AB095530036	N-male for coax cable 6.85mm	N	\$ 36.00	34%	\$ 23.76
1AB095530037	N-male 90 for coax cable 6,85mm	N	\$ 36.00	34%	\$ 23.76
1AD040130004	grounding kit for coax cable 6.85mm	N	\$ 45.00	34%	\$ 29.70
3CC50251AA	Ground kit, 2M – (qty 3 per run, based on length)	N	\$ 72.00	34%	\$ 47.52
UBT Installation Material - 10.3 Coax					
1AC001100022	Coax cable 10.3mm to power UBT (meter)	N	\$ 6.00	34%	\$ 3.96
1AB095530047	N female connector for 10.3mm	N	\$ 92.00	34%	\$ 60.72
1AB095530023	N-male straight for coax cable 10,3mm	N	\$ 45.00	34%	\$ 29.70
1AB095530021	N-male 90 for coax cable 10,3mm	N	\$ 45.00	34%	\$ 29.70
1AB128500002	Grounding kit for coax cable 10,3mm	N	\$ 50.00	34%	\$ 33.00
UBT Installation Material - Power Injector					
3DB19491AA	Outdoor Power Injector (OPI)	N	\$ 1,780.00	68%	\$ 569.60
3DB19158AA	OPI Install Kit	N	\$ 275.00	68%	\$ 88.00
3DB19739AA	Outdoor AC Power Supply (OACPS)	N	\$ 1,400.00	34%	\$ 924.00
1AC052600002	Outdoor AC Power Cable (meter)	N	\$ 9.00	34%	\$ 5.94
UBT Installation Material - SFP					
3CC50387AA	SFP+ 10GBASE-SR	Y	\$ 638.00	34%	\$ 421.08
3CC50388AA	SFP+ 10G Base-LR	Y	\$ 1,450.00	34%	\$ 957.00
3CC50322AA	SFP+ 10G Base-ER	Y	\$ 2,250.00	34%	\$ 1,485.00
3CC50386AA	SFP 1000Base-SX 2.5Gbps	Y	\$ 150.00	34%	\$ 99.00
3CC50396AA	1000BASE-LX 1/2.5 Gbps	Y	\$ 225.00	34%	\$ 148.50
3CC50167AA	1000BASE-SX SFP (mm fiber only)	Y	\$ 70.00	34%	\$ 46.20
3CC50168AA	1000BASE-LX/LH SFP (mm or sm fiber)	Y	\$ 225.00	34%	\$ 148.50
UBT Installation Material - MM Fiber UBT to MSS/SAR					
3CC52210BA	fiber cord MM LC-LC for UBT 5m	N	\$ 197.00	34%	\$ 130.02
3CC52210BB	fiber cord MM LC-LC for UBT 10m	N	\$ 203.00	34%	\$ 133.98
3CC52210BC	fiber cord MM LC-LC for UBT 25m	N	\$ 222.00	34%	\$ 146.52
3CC52210BD	fiber cord MM LC-LC for UBT 50m	N	\$ 348.00	34%	\$ 229.68
3CC52210BE	fiber cord MM LC-LC for UBT 80m	N	\$ 443.00	34%	\$ 292.38
3CC52210BF	fiber cord MM LC-LC for UBT 100m	N	\$ 570.00	34%	\$ 376.20
3CC52210BG	fiber cord MM LC-LC for UBT 120m	N	\$ 633.00	34%	\$ 417.78
3CC52210BH	fiber cord MM LC-LC for UBT 140m	N	\$ 664.00	34%	\$ 438.24
3CC52210BL	fiber cord MM LC-LC for UBT 160m	N	\$ 759.00	34%	\$ 500.94
3CC52210BM	fiber cord MM LC-LC for UBT 180m	N	\$ 949.00	34%	\$ 626.34
3CC52210BN	fiber cord MM LC-LC for UBT 200m	N	\$ 1,044.00	34%	\$ 689.04
3CC52210BP	fiber cord MM LC-LC for UBT 220m	N	\$ 1,076.00	34%	\$ 710.16
3CC52210BR	fiber cord MM LC-LC for UBT 250m	N	\$ 1,202.00	34%	\$ 793.32
3CC52210BS	fiber cord MM LC-LC for UBT 300m	N	\$ 1,392.00	34%	\$ 918.72



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UBT Installation Material - SM Fiber UBT to MSS/SAR					
3CC52218BL	fiber cord SM LC-LC for UBT 5m	N	\$ 114.00	34%	\$ 75.24
3CC52218BM	fiber cord SM LC-LC for UBT 10m	N	\$ 150.00	34%	\$ 99.00
3CC52218BN	fiber cord SM LC-LC for UBT 25m	N	\$ 200.00	34%	\$ 132.00
3CC52218BP	fiber cord SM LC-LC for UBT 50m	N	\$ 360.00	34%	\$ 237.60
3CC52218BR	fiber cord SM LC-LC for UBT 80m	N	\$ 495.00	34%	\$ 326.70
3CC52218BD	fiber cord SM LC-LC for UBT 100m	N	\$ 614.00	34%	\$ 405.24
3CC52218BE	fiber cord SM LC-LC for UBT 120m	N	\$ 677.00	34%	\$ 446.82
3CC52218BF	fiber cord SM LC-LC for UBT 140m	N	\$ 728.00	34%	\$ 480.48
3CC52218BG	fiber cord SM LC-LC for UBT 160m	N	\$ 823.00	34%	\$ 543.18
3CC52218BH	fiber cord SM LC-LC for UBT 180m	N	\$ 1,012.00	34%	\$ 667.92
3CC52218BA	fiber cord SM LC-LC for UBT 200m	N	\$ 1,107.00	34%	\$ 730.62
3CC52218BB	fiber cord SM LC-LC for UBT 250m	N	\$ 1,265.00	34%	\$ 834.90
3CC52218BC	fiber cord SM LC-LC for UBT 300m	N	\$ 1,455.00	34%	\$ 960.30
UBT Installation Material - Fiber For UBT InterConnect					
3CC52211BA	fiber cord MM LC-LC UBT-UBT 1m	N	\$ 105.00	34%	\$ 69.30
3CC52211BE	fiber cord MM LC-LC UBT-UBT 2m	N	\$ 110.00	34%	\$ 72.60
3CC52211BF	fiber cord MM LC-LC UBT-UBT 5m	N	\$ 114.00	34%	\$ 75.24
3CC52211BB	fiber cord MM LC-LC UBT-UBT 10m	N	\$ 150.00	34%	\$ 99.00
3CC52211BG	fiber cord MM LC-LC UBT-UBT 15m	N	\$ 155.00	34%	\$ 102.30
3CC52211BC	fiber cord MM LC-LC UBT-UBT 20m	N	\$ 161.00	34%	\$ 106.26
3CC52211BD	fiber cord MM LC-LC UBT-UBT 40m	N	\$ 240.00	34%	\$ 158.40
UBT Installation Material - Hybrid UBT Cable					
1AB503120001	Hybrid UBT Cable - 4x4 Coax/Fiber - 120m	N	\$ 9,049.85	34%	\$ 5,972.90
1AB503130001	Hybrid UBT Cable - 4x4 Coax/Fiber - 100m	N	\$ 7,870.85	34%	\$ 5,194.76
1AB503140001	Hybrid UBT Cable - 4x4 Coax/Fiber - 80m	N	\$ 6,691.85	34%	\$ 4,416.62
1AB503150001	Hybrid UBT Cable - 4x4 Coax/Fiber - 50m	N	\$ 4,923.35	34%	\$ 3,249.41
1AB503160001	Hybrid UBT Cable - 4x4 Coax/Fiber - 25m	N	\$ 3,449.60	34%	\$ 2,276.74
1AB503170001	Hybrid UBT Cable - 2x2 Coax/Fiber - 120m	N	\$ 7,107.00	34%	\$ 4,690.62
1AB503180001	Hybrid UBT Cable - 2x2 Coax/Fiber - 80m	N	\$ 5,305.95	34%	\$ 3,501.93
1AB503190001	Hybrid UBT Cable - 2x2 Coax/Fiber - 100m	N	\$ 6,206.50	34%	\$ 4,096.29
1AB503200001	Hybrid UBT Cable - 2x2 Coax/Fiber - 50m	N	\$ 3,955.20	34%	\$ 2,610.43
1AB503210001	Hybrid UBT Cable - 2x2 Coax/Fiber - 25m	N	\$ 2,829.55	34%	\$ 1,867.50
HTPT-1-058-CT	Cutting Tool HYBRIFLEX 58 armor US	N	\$ 644.98	34%	\$ 425.69
HTPT-1-078-CT	Cutting Tool HYBRIFLEX 78 armor US	N	\$ 695.03	34%	\$ 458.72
HTRT-1-001-KIT	Ripcord removal kit US	N	\$ 475.02	34%	\$ 313.51
ASLM Capacity RTU - per UBT (single/twin)					
3MU00177AAAA	RTU 50Mbps UBT-S Capacity	N	\$ 250.00	68%	\$ 80.00
3MU00177ABAA	RTU 100Mbps UBT-S Capacity	N	\$ 3,000.00	68%	\$ 960.00
3MU00177ACAA	RTU 160Mbps UBT-S Capacity	N	\$ 3,500.00	68%	\$ 1,120.00
3MU00177ADAA	RTU 200Mbps UBT-S Capacity	N	\$ 4,000.00	68%	\$ 1,280.00
3MU00177AEAA	RTU 300Mbps UBT-S Capacity	N	\$ 4,500.00	68%	\$ 1,440.00
3MU00177AFAA	RTU 400Mbps UBT-S Capacity	N	\$ 5,000.00	68%	\$ 1,600.00
3MU00177AGAA	RTU 600Mbps UBT-S Capacity	N	\$ 5,500.00	68%	\$ 1,760.00
3MU00177AHAA	RTU 800Mbps UBT-S Capacity	N	\$ 6,000.00	68%	\$ 1,920.00
3MU00177AJAA	RTU 1000Mbps UBT-S Capacity	N	\$ 6,500.00	68%	\$ 2,080.00
3MU00177AKAA	RTU 300Mbps UBT-T Capacity	N	\$ 4,500.00	68%	\$ 1,440.00
3MU00177ALAA	RTU 400Mbps UBT-T Capacity	N	\$ 5,000.00	68%	\$ 1,600.00
3MU00177AMAA	RTU 600Mbps UBT-T Capacity	N	\$ 5,500.00	68%	\$ 1,760.00
3MU00177ANAA	RTU 800Mbps UBT-T Capacity	N	\$ 6,000.00	68%	\$ 1,920.00
3MU00177APAA	RTU 1Gbps UBT-T Capacity	N	\$ 6,500.00	68%	\$ 2,080.00
3MU00177AQAA	RTU 1.5Gbps UBT-T Capacity	N	\$ 7,000.00	68%	\$ 2,240.00
3MU00177ARAA	RTU 2Gbps UBT-T Capacity	N	\$ 7,500.00	68%	\$ 2,400.00
3MU00177ASAA	RTU 1Gbps UBT-m Capacity	N	\$ 6,500.00	68%	\$ 2,080.00
3MU00177ATAA	RTU 1.5Gbps UBT-m Capacity	N	\$ 7,000.00	68%	\$ 2,240.00
3MU00177AUAU	RTU 2Gbps UBT-m Capacity	N	\$ 7,500.00	68%	\$ 2,400.00
3MU00177AVAA	RTU 3Gbps UBT-m Capacity	N	\$ 8,000.00	68%	\$ 2,560.00
3MU00177AWAA	RTU 4Gbps UBT-m Capacity	N	\$ 8,500.00	68%	\$ 2,720.00
3MU00177AXAA	RTU 5Gbps UBT-m Capacity	N	\$ 9,000.00	68%	\$ 2,880.00
3MU00177AYAA	RTU 6Gbps UBT-m Capacity	N	\$ 9,500.00	68%	\$ 3,040.00
3MU00177AZAA	RTU 10Gbps UBT-m Capacity	N	\$ 10,000.00	68%	\$ 3,200.00
Optional Features per UBT					
3MU00177BAAA	RTU UBT-T 2nd TxRx activation	N	\$ 3,500.00	68%	\$ 1,120.00
3MU00177BBAA	RTU UBT-m Large Channel Spacing	N	\$ 1,200.00	68%	\$ 384.00
Adaptive modulation - per UBT					
3MU00177BDAA	RTU UBT-S Adp Mod	N	\$ 1,500.00	68%	\$ 480.00
3MU00177BEAA	RTU UBT-T Adp Mod	N	\$ 1,500.00	68%	\$ 480.00
3MU00177BFAA	RTU UBT-m Adp Mod Ad Bd Rate	N	\$ 1,500.00	68%	\$ 480.00



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HQAM - per UBT					
3MU00177BGAA	RTU UBT-S HQAM 2k/4k	N	\$ 1,000.00	68%	\$ 320.00
3MU00177BHAA	RTU UBT-T HQAM 2k/4k	N	\$ 1,500.00	68%	\$ 480.00
3MU00177BJAA	RTU UBT-m HQAM	N	\$ 1,000.00	68%	\$ 320.00
XPIC - per UBT					
3MU00177BKAA	RTU UBT- S XPIC	N	\$ 1,200.00	68%	\$ 384.00
3MU00177BLAA	RTU UBT-T XPIC	N	\$ 1,200.00	68%	\$ 384.00
3MU00177BMAA	RTU UBT-m XPIC	N	\$ 1,200.00	68%	\$ 384.00
LAG/CA - per UBT link					
3MU00177BNAA	RTU UBT CarrierAggreg. Multi freq	N	\$ 1,000.00	68%	\$ 320.00
3MU00177BPAA	RTU UBT CarrierAggreg Eband+MW	N	\$ 1,500.00	68%	\$ 480.00
10G UBT					
3MU00177DCAA	UBT-T 10G Full Outdoor	N	\$ 2,500.00	68%	\$ 800.00
3MU00177DDAA	UBT-m 10G Full Outdoor	N	\$ 2,500.00	68%	\$ 800.00
3MU00177DEAA	UBT-S 10G Full Outdoor	N	\$ 2,500.00	68%	\$ 800.00
Capacity Upgrades - per UBT					
3MU00177BTAA	UBT-T Upgrade 300Mb to 400Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177BUAA	UBT-T Upgrade 400Mb to 600Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177BVAA	UBT-T Upgrade 600Mb to 800Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177BWAA	UBT-T Upgrade 800Mb to 1000Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177BXAA	UBT-T Upgrade 1000Mb to 1500Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177BYAA	UBT-T Upgrade 1500Mb to 2000Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177BZAA	UBT-m Upgrade 1000Mb to 1500Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177CAAA	UBT-m Upgrade 1500Mb to 2000Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177CBAA	UBT-m Upgrade 2000Mb to 3000Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177CCAA	UBT-m Upgrade 3000Mb to 4000Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177CDAA	UBT-m Upgrade 4000Mb to 5000Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177CEAA	UBT-m Upgrade 5000Mb to 6000Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177CFAA	UBT-m Upgrade 6000Mb to 10Gb	N	\$ 500.00	68%	\$ 160.00
3MU00177CGAA	UBT-S Upgrade 50Mb to 100Mb	N	\$ 2,750.00	68%	\$ 880.00
3MU00177CHAA	UBT-S Upgrade 100Mb to 160Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177CJAA	UBT-S Upgrade 160Mb to 200Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177CKAA	UBT-S Upgrade 200Mb to 300Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177CLAA	UBT-S Upgrade 300Mb to 400Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177CMAA	UBT-S Upgrade 400Mb to 600Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177CNAA	UBT-S Upgrade 600Mb to 800Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177CPAA	UBT-S Upgrade 800Mb to 1000Mb	N	\$ 500.00	68%	\$ 160.00
SDN					
3MU00177DAAA	Wavence Netconf RTU	N	\$ 2,500.00	68%	\$ 800.00
3MU00177DBAA	Wavence L3VPN RTU	N	\$ 2,500.00	68%	\$ 800.00
3MU00177DHAA	Wavence Dynamic L3 OSPF RTU	N	\$ 2,500.00	68%	\$ 800.00
OCM					
3MU00177DGAA	RTU OCM	N	\$ 2,500.00	68%	\$ 800.00
MISC					
3MU00177DJAA	RTU TWAMP Responder	N	\$ 1,500.00	68%	\$ 480.00
3MU00177DKAA	RTU Y.1731	N	\$ 1,500.00	68%	\$ 480.00
3MU00177DPAA	RTU Fast Re-route (FRR)	N	\$ 1,500.00	68%	\$ 480.00
3MU00177DQAA	RTU Traffic Engineering (TE)	N	\$ 1,500.00	68%	\$ 480.00
AES					
3MU00177DLAA	RTU AES UBT-S Stand Alone	N	\$ 5,000.00	68%	\$ 1,600.00
3MU00177DMAA	RTU AES UBT-T Stand Alone	N	\$ 5,000.00	68%	\$ 1,600.00
3MU00177DRAA	RTU AES UBT-I Stand Alone Supported with W22	N	\$ 5,000.00	68%	\$ 1,600.00
Factory Capacity RTU - per UBT (single/twin)					
3MU00180AAAA	RTU 50Mbps UBT-S Capacity	N	\$ 250.00	68%	\$ 80.00
3MU00180ABAA	RTU 100Mbps UBT-S Capacity	N	\$ 3,000.00	68%	\$ 960.00
3MU00180ACAA	RTU 160Mbps UBT-S Capacity	N	\$ 3,500.00	68%	\$ 1,120.00
3MU00180ADAA	RTU 200Mbps UBT-S Capacity	N	\$ 4,000.00	68%	\$ 1,280.00
3MU00180AEAA	RTU 300Mbps UBT-S Capacity	N	\$ 4,500.00	68%	\$ 1,440.00
3MU00180AFAA	RTU 400Mbps UBT-S Capacity	N	\$ 5,000.00	68%	\$ 1,600.00
3MU00180AGAA	RTU 600Mbps UBT-S Capacity	N	\$ 5,500.00	68%	\$ 1,760.00
3MU00180AHAA	RTU 800Mbps UBT-S Capacity	N	\$ 6,000.00	68%	\$ 1,920.00
3MU00180AJAA	RTU 1000Mbps UBT-S Capacity	N	\$ 6,500.00	68%	\$ 2,080.00



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3MU00180AKAA	RTU 300Mbps UBT-T Capacity	N	\$ 4,500.00	68%	\$ 1,440.00
3MU00180ALAA	RTU 400Mbps UBT-T Capacity	N	\$ 5,000.00	68%	\$ 1,600.00
3MU00180AMAA	RTU 600Mbps UBT-T Capacity	N	\$ 5,500.00	68%	\$ 1,760.00
3MU00180ANAA	RTU 800Mbps UBT-T Capacity	N	\$ 6,000.00	68%	\$ 1,920.00
3MU00180APAA	RTU 1Gbps UBT-T Capacity	N	\$ 6,500.00	68%	\$ 2,080.00
3MU00180AQAA	RTU 1.5Gbps UBT-T Capacity	N	\$ 7,000.00	68%	\$ 2,240.00
3MU00180ARAA	RTU 2Gbps UBT-T Capacity	N	\$ 7,500.00	68%	\$ 2,400.00
3MU00180ASAA	RTU 1Gbps UBT-m Capacity	N	\$ 6,500.00	68%	\$ 2,080.00
3MU00180ATAA	RTU 1.5Gbps UBT-m Capacity	N	\$ 7,000.00	68%	\$ 2,240.00
3MU00180AUA	RTU 2Gbps UBT-m Capacity	N	\$ 7,500.00	68%	\$ 2,400.00
3MU00180AVAA	RTU 3Gbps UBT-m Capacity	N	\$ 8,000.00	68%	\$ 2,560.00
3MU00180AWAA	RTU 4Gbps UBT-m Capacity	N	\$ 8,500.00	68%	\$ 2,720.00
3MU00180AXAA	RTU 5Gbps UBT-m Capacity	N	\$ 9,000.00	68%	\$ 2,880.00
3MU00180AYAA	RTU 6Gbps UBT-m Capacity	N	\$ 9,500.00	68%	\$ 3,040.00
3MU00180AZAA	RTU 10Gbps UBT-m Capacity	N	\$ 10,000.00	68%	\$ 3,200.00
Optional Features per UBT					
3MU00180BAAA	RTU UBT-T 2nd TxRx activation	N	\$ 3,500.00	68%	\$ 1,120.00
3MU00180BBAA	RTU UBT-m Large Channel Spacing	N	\$ 1,200.00	68%	\$ 384.00
Adaptive modulation - per UBT					
3MU00180BDAA	RTU UBT-S Adp Mod	N	\$ 1,500.00	68%	\$ 480.00
3MU00180BEAA	RTU UBT-T Adp Mod	N	\$ 1,500.00	68%	\$ 480.00
3MU00180BFAA	RTU UBT-m Adp Mod Ad Bd Rate	N	\$ 1,500.00	68%	\$ 480.00
HQAM - per UBT					
3MU00180BGAA	RTU UBT-S HQAM 2k/4k	N	\$ 1,000.00	68%	\$ 320.00
3MU00180BHAA	RTU UBT-T HQAM 2k/4k	N	\$ 1,500.00	68%	\$ 480.00
3MU00180BJAA	RTU UBT-m HQAM	N	\$ 1,000.00	68%	\$ 320.00
XPIC - per UBT					
3MU00180BKAA	RTU UBT- S XPIC	N	\$ 1,200.00	68%	\$ 384.00
3MU00180BLAA	RTU UBT-T XPIC	N	\$ 1,200.00	68%	\$ 384.00
3MU00180BMAA	RTU UBT-m XPIC	N	\$ 1,200.00	68%	\$ 384.00
LAG/CA - per UBT link					
3MU00180BNA	RTU UBT CarrierAggreg. Multi freq	N	\$ 1,000.00	68%	\$ 320.00
3MU00180BPAA	RTU UBT CarrierAggreg Eband+MW	N	\$ 1,500.00	68%	\$ 480.00
StandAlone - UBT					
3MU00180VAAA	RTU UBT-S Stand Alone	N	\$ 5,000.00	68%	\$ 1,600.00
3MU00180VBAA	RTU UBT-T Stand Alone	N	\$ 5,000.00	68%	\$ 1,600.00
3MU00180VCAA	RTU UBT-m Stand Alone	N	\$ 5,000.00	68%	\$ 1,600.00
3MU00180VDAA	RTU UBT-I Stand Alone	N	\$ 5,000.00	68%	\$ 1,600.00
OCM - UBT					
3MU00180DGAA	RTU OCM	N	\$ 2,500.00	68%	\$ 800.00
MISC - per UBT					
3MU00180DJAA	RTU TWAMP Responder	N	\$ 1,500.00	68%	\$ 480.00
3MU00180DKAA	RTU Y.1731	N	\$ 1,500.00	68%	\$ 480.00
3MU00180DPAA	RTU Fast Re-route (FRR)	N	\$ 1,500.00	68%	\$ 480.00
3MU00180DQAA	RTU Traffic Engineering (TE)	N	\$ 1,500.00	68%	\$ 480.00
L6Ghz OCM Body					
3DB28888AA	OCM 5.9-6.95GHz 4Ch CP MAIN	N	\$ 12,040.00	68%	\$ 3,852.80
3DB28889AA	OCM 5.9-6.95GHz 4Ch CP EXTENSION	N	\$ 11,600.00	68%	\$ 3,712.00
3DB28890AA	OCM 5.9-6.95GHz 2x2Ch AP	N	\$ 11,500.00	68%	\$ 3,680.00
U6Ghz OCM Body					
3DB28927AA	OCM 6U 4Ch CP MAIN	N	\$ 12,040.00	68%	\$ 3,852.80
3DB28928AA	OCM 6U 4Ch CP EXTENSION	N	\$ 11,600.00	68%	\$ 3,712.00
3DB28929AA	OCM 6U 2x2Ch AP	N	\$ 11,500.00	68%	\$ 3,680.00
11GHz OCM Body					
3DB28891AA	OCM 10.7-11.7GHz 4Ch CP MAIN	N	\$ 14,860.00	68%	\$ 4,755.20
3DB28892AA	OCM 10.7-11.7GHz 4Ch CP EXTENSION	N	\$ 15,080.00	68%	\$ 4,825.60
3DB28893AA	OCM 10.7-11.7GHz 2x2Ch AP	N	\$ 14,800.00	68%	\$ 4,736.00
6Ghz Filters					
3DB76131AA	TUNED 6 CAV FILTER 5.90-6.20 GHz CH 30 MHz	N	\$ 950.00	68%	\$ 304.00
3DB76132AA	TUNED 6 CAV FILTER 6.15-6.45 GHz CH 30 MHz	N	\$ 950.00	68%	\$ 304.00
3DB76286AA	TUNED 6 CAV FILTER 6.4-6.75 GHz CH 30 MHz (BW 25,5MHz)	N	\$ 775.00	68%	\$ 248.00



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3DB76287AA	TUNED 6 CAV FILTER 6.7-7.1 GHz CH 30 MHz (BW 25.5 MHz)	N	\$ 775.00	68%	\$ 248.00
3DB76113AA	RF Stacking Filter 5925-6175 MHz (XMT or RCV) 60 MHz	N	\$ 750.00	68%	\$ 240.00
3DB76114AA	RF Stacking Filter 6175-6425 MHz (XMT or RCV) 60 MHz	N	\$ 750.00	68%	\$ 240.00
3DB76197AA	REJECTION FILTER 3 cav. 6L INF	N	\$ 525.00	68%	\$ 168.00
3DB76198AA	REJECTION FILTER 3 cav. 6L SUP	N	\$ 525.00	68%	\$ 168.00
3DB76199AA	REJECTION FILTER 6 CAV. 6L INF (Only for Ch 60 MHz)	N	\$ 525.00	68%	\$ 168.00
3DB76200AA	REJECTION FILTER 6 CAV. 6L SUP (Only for Ch 60 MHz)	N	\$ 525.00	68%	\$ 168.00
11Ghz Filters					
3DB28982AA	FILTER 10.7-11.2 GHz Hardened 30Mhz	N	\$ 2,500.00	68%	\$ 800.00
3DB28983AA	FILTER 11.2-11.7 GHz Hardened 30Mhz	N	\$ 2,500.00	68%	\$ 800.00
3DB28984AA	FILTER 10.7-11.2 GHz Hardened 40Mhz	N	\$ 2,500.00	68%	\$ 800.00
3DB28985AA	FILTER 11.2-11.7 GHz Hardened 40Mhz	N	\$ 2,500.00	68%	\$ 800.00
3DB28991AA	FILTER 10.7-11.2 GHz Hardened 60Mhz	N	\$ 2,500.00	68%	\$ 800.00
3DB28992AA	FILTER 11.2-11.7 GHz Hardened 60Mhz	N	\$ 2,500.00	68%	\$ 800.00
3DB28996AA	FILTER 10.7-11.2 GHz Hardened 80Mhz	N	\$ 2,500.00	68%	\$ 800.00
3DB28997AA	FILTER 11.2-11.7 GHz Hardened 80Mhz	N	\$ 2,500.00	68%	\$ 800.00
OCM Flex Twist to Antenna					
1AF02951ABAA	FlexTwist 5,85GHz-8,2GHz PDR70/UDR70 1m	N	\$ 759.00	68%	\$ 242.88
1AF11977AAAA	FlexTwist 7,05GHz-10GHz PDR84/UBR84 1m	N	\$ 759.00	68%	\$ 242.88
3CC50018AA	FlexTwist 8,2-12,4GHz PDR100/UBR100 1m	N	\$ 759.00	68%	\$ 242.88
Extension from1m -> 2m					
1AF02951ABAA	FlexTwist 5,85GHz-8,2GHz PDR70/UDR70 1m	N	\$ 759.00	68%	\$ 242.88
3CC08010AB	FlexTwist 7,05GHz-10GHz PBR84/UBR84 1m	N	\$ 759.00	68%	\$ 242.88
1AF02957ABAA	FlexTwist 8,2-12,4GHz PBR100/UBR100 1m	N	\$ 759.00	68%	\$ 242.88
Connection between OCM When two OCM must be interconnected, use one bend and one flexTwist.					
3CC50392AA	BEND H PLANE PDR70/UDR70 for OCM	N	\$ 418.00	68%	\$ 133.76
3CC50393AA	BEND H PLANE PDR84/UDR84 for OCM	N	\$ 451.00	68%	\$ 144.32
3CC50366AA	FlexTwist 6 GHz WR137 PDR70/PDR70 1,2m for OCM	N	\$ 974.00	68%	\$ 311.68
3CC50369AA	FlexTwist WR112 PDR84/PDR84 7/8 GHz 1.2 m for OCM	N	\$ 809.00	68%	\$ 258.88
3CC50370AA	FlexTwist WR90 PDR100/PDR100 11 GHz 1.2 m for OCM	N	\$ 759.00	68%	\$ 242.88
UBT-I Modules					
3DB76338AA	UBT-I XCVR L6 GHZ	Y	\$ 16,500.00	68%	\$ 5,280.00
3DB76338BA	UBT-I XCVR L6 GHZ WITH COMBINER	Y	\$ 19,500.00	68%	\$ 6,240.00
3DB76338CA	UBT-I XCVR L6 GHZ HP	Y	\$ 21,000.00	68%	\$ 6,720.00
3DB76338DA	UBT-I XCVR L6 GHZ HP WITH COMBINER	Y	\$ 24,000.00	68%	\$ 7,680.00
3DB76339AA	UBT-I XCVR U6 GHZ	Y	\$ 16,500.00	68%	\$ 5,280.00
3DB76339BA	UBT-I XCVR U6 GHZ WITH COMBINER	Y	\$ 19,500.00	68%	\$ 6,240.00
3DB76339CA	UBT-I XCVR U6 GHZ HP	Y	\$ 21,000.00	68%	\$ 6,720.00
3DB76339DA	UBT-I XCVR U6 GHZ HP WITH COMBINER	Y	\$ 24,000.00	68%	\$ 7,680.00
3DB76342AA	UBT-I XCVR 11 GHZ	Y	\$ 17,500.00	68%	\$ 5,600.00
3DB76342BA	UBT-I XCVR 11 GHZ W/COMBINER	Y	\$ 20,500.00	68%	\$ 6,560.00
3DB76342CA	UBT-I XCVR 11GHz HP	Y	\$ 22,000.00	68%	\$ 7,040.00
3DB76342DA	UBT-I XCVR 11GHz HP W/COMBINER	Y	\$ 25,000.00	68%	\$ 8,000.00
UBT-I ACCP Filters					
3DB76369AA	FILTER 11.2-11.7 GHz 6CAV. BW 36 MHz	Y	\$ 1,500.00	68%	\$ 480.00
3DB76370AA	FILTER 10.7-11.2 GHz 6CAV. BW 36 MHz	Y	\$ 1,500.00	68%	\$ 480.00
3DB29529AA	FILTER 10.7-11.2 GHz 5 CAV BW 69 MHz	Y	\$ 1,450.00	68%	\$ 464.00
3DB29530AA	FILTER 10.7-11.2 GHz 5 CAV BW 69 MHz	Y	\$ 1,450.00	68%	\$ 464.00
UBT-I Capacity RTU - per UBT-I					
3MU00177FAAA	RTU 50Mbps UBT-I Capacity	N	\$ 250.00	68%	\$ 80.00
3MU00177FBAA	RTU 100Mbps UBT-I Capacity	N	\$ 3,000.00	68%	\$ 960.00
3MU00177FCAA	RTU 160Mbps UBT-I Capacity	N	\$ 3,500.00	68%	\$ 1,120.00
3MU00177FDAA	RTU 200Mbps UBT-I Capacity	N	\$ 4,000.00	68%	\$ 1,280.00
3MU00177FEAA	RTU 300Mbps UBT-I Capacity	N	\$ 4,500.00	68%	\$ 1,440.00
3MU00177FFAA	RTU 400Mbps UBT-I Capacity	N	\$ 5,000.00	68%	\$ 1,600.00
3MU00177FGAA	RTU 600Mbps UBT-I Capacity	N	\$ 5,500.00	68%	\$ 1,760.00
3MU00177FHAA	RTU 800Mbps UBT-I Capacity	N	\$ 6,000.00	68%	\$ 1,920.00
3MU00177FJAA	RTU 1000Mbps UBT-I Capacity	N	\$ 6,500.00	68%	\$ 2,080.00
3MU00177EDAA	RTU UBT-I Adp Mod	N	\$ 1,500.00	68%	\$ 480.00
3MU00177EKAA	RTU UBT-I XPIC	N	\$ 1,200.00	68%	\$ 384.00
3MU00177ECAA	UBT-I 10G Stand Alone	N	\$ 2,500.00	68%	\$ 800.00
3MU00177EGAA	RTU UBT-I HQAM 2k/4k	N	\$ 1,000.00	68%	\$ 320.00
3MU00177GGAA	UBT-I Upgrade 50Mb to 100Mb	N	\$ 2,750.00	68%	\$ 880.00
3MU00177GHAA	UBT-I Upgrade 100Mb to 160Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177GJAA	UBT-I Upgrade 160Mb to 200Mb	N	\$ 500.00	68%	\$ 160.00



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3MU00177GKAA	UBT-I Upgrade 200Mb to 300Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177GLAA	UBT-I Upgrade 300Mb to 400Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177GMAA	UBT-I Upgrade 400Mb to 600Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177GNAA	UBT-I Upgrade 600Mb to 800Mb	N	\$ 500.00	68%	\$ 160.00
3MU00177GPAA	UBT-I Upgrade 800Mb to 1000Mb	N	\$ 500.00	68%	\$ 160.00
	UBT-I Factory Capacity RTU - per UBT-I				
3MU00180FAAA	RTU 50Mbps UBT-I Capacity	N	\$ 250.00	68%	\$ 80.00
3MU00180FBAA	RTU 100Mbps UBT-I Capacity	N	\$ 3,000.00	68%	\$ 960.00
3MU00180FCAA	RTU 160Mbps UBT-I Capacity	N	\$ 3,500.00	68%	\$ 1,120.00
3MU00180FDAA	RTU 200Mbps UBT-I Capacity	N	\$ 4,000.00	68%	\$ 1,280.00
3MU00180FEAA	RTU 300Mbps UBT-I Capacity	N	\$ 4,500.00	68%	\$ 1,440.00
3MU00180FFAA	RTU 400Mbps UBT-I Capacity	N	\$ 5,000.00	68%	\$ 1,600.00
3MU00180FGAA	RTU 600Mbps UBT-I Capacity	N	\$ 5,500.00	68%	\$ 1,760.00
3MU00180FHAA	RTU 800Mbps UBT-I Capacity	N	\$ 6,000.00	68%	\$ 1,920.00
3MU00180FJAA	RTU 1000Mbps UBT-I Capacity	N	\$ 6,500.00	68%	\$ 2,080.00
3MU00180GFDAA	RTU UBT-I Adp Mod	N	\$ 1,500.00	68%	\$ 480.00
3MU00180GKAA	RTU UBT-I XPIC	N	\$ 1,200.00	68%	\$ 384.00
3MU00180GGAA	RTU UBT-I HQAM 2k/4k	N	\$ 1,000.00	68%	\$ 320.00

END of Wavence Family Price Catalog

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R56 Grounding and Router Inte

Part No	Description	Spare
1AD214130001	(Vertical) Universal grd bar kit SBVB72K/19" rack for R56	N
406645671	#6 Ground cable-KS22641L1, Per FT for R56	N
408406536	KIT-YA6C-L BOX PWR COMMO* for R56	N
901350322	SCR M-.25 IN 20 TPI 1 IN* for R56	N
407305549	WSHR LK-92147A029 SPLT 1* for R56	N
900327453	FLAT WASHER, STAINLESS STEEL, 1/4 INCH for R56	N
900329830	NUT-300 HEX SST .250-19 for R56	N
1AD212050001	3" stand-ff for SAR per set of 2 for Router Integration	N

gration

NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price
\$ 1,192.42	34%	787.00
\$ 1.82	34%	1.20
\$ 1.85	34%	1.22
\$ 0.23	34%	0.15
\$ 0.08	34%	0.05
\$ 0.38	34%	0.25
\$ 0.18	34%	0.12
\$ 78.03	34%	51.50



Customer Specific

Customer Specific					
Part No	Description	Spare	NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price
IAD144370001	Standoff Bracket - 5.25"	N	\$ 100.00	34%	\$ 66.00
3MU00179DM	W/G Adapter Type N-CPR-137G	N	\$ 1,800.00	34%	\$ 1,188.00
3MU00179DP	Cable Assy 6 FT SMA TO Type N	N	\$ 225.00	34%	\$ 148.50
IAB486850001	DSX-1 Module, 4xT1, with monitor (DFX-9T1000)	N	\$ 525.00	34%	\$ 346.50
IAB486840001	DSX-1 Empty Chassis, 19", 16 module capacity (DFX-9T0003)	N	\$ 825.00	34%	\$ 544.50
409106473	Chatsworth RACK, 46053-505, 7' 6 UNIV FRAME, TWO TOP BARS, 19, CLEAR	N	\$ 1,100.00	34%	\$ 726.00
409089802	Chatsworth RACK, 55053-503, 7' UNIV FRAME, TWO TOP BARS, 19, CLEAR		\$ 831.89	34%	\$ 549.05
409083052	Juice Goose PDU	N	\$ 1,518.08	34%	\$ 1,001.93
IAB014410010	FUSE OTHER 15A, QUICK	N	\$ 3.76	34%	\$ 2.48
3MU00139AA	CABLE GND PDU to FrameRING TERM 10	N	\$ 23.86	34%	\$ 15.75
IAB596810019	ION Synch Cable, 74 in, 1.0/2.3 Plug to BNC Male	N	\$ 63.70	34%	\$ 42.04
3EM24130BC	Waveguide, Straight, 6in	N	\$ 250.00	34%	\$ 165.00
3EM24154AP	Waveguide WR-75 St 7.0 in	N	\$ 225.00	34%	\$ 148.50
695-7834-009	4 FT SMA TO SMA CABLE	N	\$ 145.00	34%	\$ 95.70
695-7834-010	6 FT SMA TO SMA CABLE	N	\$ 145.00	34%	\$ 95.70
379-0539-180	30.00 dB 50 Ohm FIXED RF ATTENUATOR	N	\$ 600.00	34%	\$ 396.00
IAF06488AAA	Adapter, 90CA1235, 11GHz WR90 Waveguide to SMA adapters	N	\$ 400.00	34%	\$ 264.00

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3CC56710AA	RFS SC3-220BUBTC	21.2 - 23.6	Ant int UBT 3ft 23GHz DP	3	0	Dual	\$ 1,862.00	60%	\$ 744.80
3CC57246AA	RFS SL3-220AUBTRC	21.2 - 23.6	Ant int UBT 3ft class4 23GHz SP/DP	3	0	Single/Dual	\$ 3,100.00	60%	\$ 1,240.00
10046185	RFS SB4-220EUBTR	21.2 - 23.6	Ant UBT Int SB4-220EUBTR, 4ft, 23GHz, S	4	1	Single	\$ 3,300.00	60%	\$ 1,320.00
3CC56716AA	RFS SB4-220EUBTR	21.2 - 23.6	Ant int UBT 4ft 23GHz SP	4	1	Single	\$ 3,052.00	60%	\$ 1,220.80
3CC56722AA	RFS SB4-220EUBTC	21.2 - 23.6	Ant int UBT 4ft 23GHz DP	4	1	Dual	\$ 3,052.00	60%	\$ 1,220.80
3CC56728AA	RFS SB6-220D2UBTR	21.2 - 23.6	Ant int UBT 6ft 23GHz SP	6	1	Single	\$ 7,344.00	60%	\$ 2,937.60
3CC56733AA	RFS SB6-220D2UBTC	21.2 - 23.6	Ant int UBT 6ft 23GHz DP	6	1	Dual	\$ 7,344.00	60%	\$ 2,937.60
3CC56623AA	RFS SC1-250AUBTR	24.25 - 26.5	Ant int UBT 1ft 26GHz DP	1	0	Single	\$ 757.00	60%	\$ 302.80
3CC56632AA	RFS SC1-250AUBTC	24.25 - 26.5	Ant int UBT 1ft 26GHz DP	1	0	Dual	\$ 757.00	60%	\$ 302.80
3CC56740AA	RFS SL1-250AUBTRC	24.25 - 26.5	Ant Int UBT 1ft class4 26 GHz SP/DP	1	0	Single/Dual	\$ 1,615.00	60%	\$ 646.00
3CC56642AA	RFS SC2-280CUBTR	24.25 - 26.5	Ant int UBT 2ft 26GHz SP	2	0	Single	\$ 982.00	60%	\$ 392.80
3CC56652AA	RFS SC2-280CUBTC	24.25 - 26.5	Ant int UBT 2ft 26GHz DP	2	0	Dual	\$ 982.00	60%	\$ 392.80
3CC56748AA	RFS SL2-250AUBTRC	24.25 - 26.5	Ant Int UBT 2ft class4 26 GHz SP/DP	2	0	Single/Dual	\$ 2,338.00	60%	\$ 935.20
3CC56705AA	RFS SC3-250BUBTR	24.25 - 26.5	Ant int UBT 3ft 26GHz SP	3	0	Single	\$ 1,892.00	60%	\$ 756.80
3CC56711AA	RFS SC3-250BUBTC	24.25 - 26.5	Ant int UBT 3ft 26GHz DP	3	0	Dual	\$ 1,892.00	60%	\$ 756.80
3CC57247AA	RFS SL3-250AUBTRC	24.25 - 26.5	Ant int UBT 3ft class4 26GHz SP/DP	3	0	Single/Dual	\$ 3,100.00	60%	\$ 1,240.00
3CC56717AA	RFS SB4-250EUBTR	24.25 - 26.5	Ant int UBT 4ft 26GHz SP	4	0	Single	\$ 3,094.00	60%	\$ 1,237.60
3CC56723AA	RFS SB4-250EUBTC	24.25 - 26.5	Ant int UBT 4ft 26GHz DP	4	0	Dual	\$ 3,094.00	60%	\$ 1,237.60
3CC56624AA	RFS SC1-280AUBTR	27.5 - 29.5	Ant int UBT 1ft 28GHz DP	1	0	Single	\$ 850.00	60%	\$ 340.00
3CC56633AA	RFS SC1-280AUBTC	27.5 - 29.5	Ant int UBT 1ft 28GHz DP	1	0	Dual	\$ 850.00	60%	\$ 340.00
3CC56741AA	RFS SL1-280AUBTRC	27.5 - 29.5	Ant Int UBT 1ft class4 28 GHz SP/DP	1	0	Single/Dual	\$ 1,615.00	60%	\$ 646.00
3CC56643AA	RFS SC2-280CUBTR	27.5 - 29.5	Ant int UBT 2ft 28GHz SP	2	0	Single	\$ 1,088.00	60%	\$ 435.20
3CC56653AA	RFS SC2-280CUBTC	27.5 - 29.5	Ant int UBT 2ft 28GHz DP	2	0	Dual	\$ 1,088.00	60%	\$ 435.20
3CC56749AA	RFS SL2-280BUBTRC	27.5 - 29.5	Ant Int UBT 2ft class4 28 GHz SP/DP	2	0	Single/Dual	\$ 2,338.00	60%	\$ 935.20
3CC57248AA	RFS SL3-280AUBTRC	27.5 - 29.5	Ant int UBT 3ft class4 28GHz SP/DP	3	0	Single/Dual	\$ 3,300.00	60%	\$ 1,320.00
3CC56696AA	RFS SC1-320AUBTR	31.0 - 32.0	Ant int UBT 1ft 32GHz SP	1	0	Single	\$ 748.00	60%	\$ 299.20
3CC56697AA	RFS SC1-320AUBTC	31.0 - 32.0	Ant int UBT 1ft 32GHz DP	1	0	Dual	\$ 748.00	60%	\$ 299.20
3CC56688AA	RFS SC2-320CUBTR	31.0 - 32.0	Ant int UBT 2ft 32GHz SP	2	0	Single	\$ 978.00	60%	\$ 391.20
3CC56699AA	RFS SC2-320CUBTC	31.0 - 32.0	Ant int UBT 2ft 32GHz DP	2	0	Dual	\$ 978.00	60%	\$ 391.20
3CC56742AA	RFS SL1-320AUBTRC	31.0 - 32.0	Ant Int UBT 1ft class4 32 GHz SP/DP	1	0	Single/Dual	\$ 1,615.00	60%	\$ 646.00
3CC56700AA	RFS SL2-320BUBTRC	31.0 - 32.0	Ant int UBT 2ft class4 32 GHz SP/DP	2	0	Single/Dual	\$ 2,338.00	60%	\$ 935.20
3CC57249AA	RFS SL3-320AUBTRC	31.0 - 32.0	Ant int UBT 3ft class4 32GHz SP/DP	3	0	Single/Dual	\$ 3,245.00	60%	\$ 1,298.00
3CC56625AA	RFS SC1-380AUBTR	37.0 - 39.5	Ant int UBT 1ft 38GHz SP	1	0	Single	\$ 748.00	60%	\$ 299.20
3CC56634AA	RFS SC1-380AUBTC	37.0 - 39.5	Ant int UBT 1ft 38GHz DP	1	0	Dual	\$ 748.00	60%	\$ 299.20
3CC56644AA	RFS SC2-380CUBTR	37.0 - 39.5	Ant int UBT 2ft 38GHz SP	2	0	Single	\$ 978.00	60%	\$ 391.20
3CC56654AA	RFS SC2-380CUBTC	37.0 - 39.5	Ant int UBT 2ft 38GHz DP	2	0	Dual	\$ 978.00	60%	\$ 391.20
3CC56743AA	RFS SL1-380AUBTRC	37.0 - 39.5	Ant Int UBT 1ft class4 38 GHz SP/DP	1	0	Single/Dual	\$ 1,615.00	60%	\$ 646.00
3CC56751AA	RFS SL2-380BUBTRC	37.0 - 39.5	Ant Int UBT 2ft class4 38 GHz SP/DP	2	0	Single/Dual	\$ 2,338.00	60%	\$ 935.20
3CC57324AA	RFS SL3-380AUBTRC	37.0 - 39.5	Ant UBT Int 3ft class4 38 GHz SP/DP	3	0	Single/Dual	\$ 3,620.00	60%	\$ 1,448.00
3CC57331AA	RFS SC3-380BUBTR	37.0 - 39.5	Ant UBT Int 3ft 38 GHz SP	3	0	Single	\$ 1,997.00	60%	\$ 798.80
3CC57332AA	RFS SC3-380BUBTC	37.0 - 39.5	Ant UBT Int 3ft 38 GHz DP	3	0	Dual	\$ 1,997.00	60%	\$ 798.80
3CC57335AA	RFS SC3-380BUBT	37.0 - 39.5	Ant UBT Int 3ft DP 38 GHz (with OMT)	3	0	Dual	\$ 3,316.00	60%	\$ 1,326.40
3CC56626AA	RFS SC1-420AUBTR	40.5 - 43.5	Ant int UBT 1ft 42GHz SP	1	0	Single	\$ 850.00	60%	\$ 340.00
3CC56635AA	RFS SC1-420AUBTC	40.5 - 43.5	Ant int UBT 1ft 42GHz DP	1	0	Dual	\$ 850.00	60%	\$ 340.00
3CC56645AA	RFS SC2-420CUBTR	40.5 - 43.5	Ant int UBT 2ft 42GHz SP	2	0	Single	\$ 1,182.00	60%	\$ 472.80
3CC56655AA	RFS SC2-420CUBTC	40.5 - 43.5	Ant int UBT 2ft 42GHz DP	2	0	Dual	\$ 1,182.00	60%	\$ 472.80
3CC56744AA	RFS SL1-420AUBTRC	40.5 - 43.5	Ant Int UBT 1ft class4 42 GHz SP/DP	1	0	Single/Dual	\$ 1,615.00	60%	\$ 646.00
3CC56752AA	RFS SL2-420BUBTRC	40.5 - 43.5	Ant Int UBT 2ft class4 42 GHz SP/DP	2	0	Single/Dual	\$ 2,338.00	60%	\$ 935.20
3CC56627AA	RFS SB1-W800CUBT	71.0 - 86.0	Ant UBT Int 1ft 80 GHz SP	1	0	Single	\$ 1,335.00	60%	\$ 534.00
3CC56636AA	RFS SBX1-W800CUBT	71.0 - 86.0	Ant UBT Int 1ft DP 80 GHz (with OMT)	1	0	Dual	\$ 3,000.00	60%	\$ 1,200.00
3CC56766AA	RFS SB1-W800CUBT-F	71.0 - 86.0	Ant UBT Int 1ft 80 GHz SP - FCC	1	0	Single	\$ 1,606.00	60%	\$ 642.40
3CC57224AA	RFS SC1-W800AUBT	71.0 - 86.0	Ant UBT Int 1ft 80 GHz SP	1	0	Single	\$ 820.00	60%	\$ 328.00
3CC57225AA	RFS SB1-W800EUBT-F	71.0 - 86.0	Ant UBT Int 1ft 80 GHz SP FCC	1	0	Single	\$ 1,500.00	60%	\$ 600.00
3CC57227AA	RFS SCX1-W800AUBT	71.0 - 86.0	Ant UBT Int 1ft DP 80 GHz (with OMT)	1	0	Dual	\$ 2,250.00	60%	\$ 900.00
3CC57228AA	RFS SBX1-W800EUBT	71.0 - 86.0	Ant UBT Int 1ft 80 GHz FCC (with OMT)	1	0	Single	\$ 3,500.00	60%	\$ 1,400.00
3CC56646AA	RFS SC2-W800BUBT	71.0 - 86.0	Ant UBT Int 2ft 80 GHz SP	2	0	Single	\$ 1,500.00	60%	\$ 600.00
3CC56656AA	RFS SCX2-W800BUBT	71.0 - 86.0	Ant UBT Int 2ft DP 80 GHz (with OMT)	2	0	Dual	\$ 3,800.00	60%	\$ 1,520.00
3CC57226AA	RFS SC2-W800DUBT	71.0 - 86.0	Ant UBT Int 2ft 80 GHz SP	2	0	Dual	\$ 1,400.00	60%	\$ 560.00
3CC57229AA	RFS SCX2-W800DUBT	71.0 - 86.0	Ant UBT Int 2ft DP 80 GHz (with OMT)	2	0	Dual	\$ 2,900.00	60%	\$ 1,160.00

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Network Management System

TSM-8000 Network Management System

Part No	Description	NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price
TSM-8000 Fully Redundant Workstation Kit				
3EM16790EP	Server Wkstin Kit, Win Server, 110 VAC	\$ 32,200.00	30%	\$ 22,540.00
TSM-8000 Single Client Workstation Kit				
3EM16790BV	Single Client as Server Wkstin Kit, Win , 110 VAC	\$ 20,288.00	30%	\$ 14,201.60
TSM-8000 SNMP / TL1 Workstation Kit				
3EM16790GW	Server Wkstin Kit, 1U, Win Server, 110 VAC	\$ 26,672.00	30%	\$ 18,670.40
TSM-8000 Server ONLY				
3EM16790DH	Server workstation (rack mount) - with 17" LCD monitor, WIN Server OS 110 VAC	\$ 16,800.00	30%	\$ 11,760.00
3EM16790GY	Server, 1U High (rack mount) SNMP Only, WIN Server OS 110 VAC	\$ 8,520.00	30%	\$ 5,964.00
SNMP Software				
3EM16790BA	Server License, 24 NE Ld, SNMP	\$ 13,800.00	30%	\$ 9,660.00
3EM16790BB	Server License, 32 NE Ld, SNMP	\$ 18,000.00	30%	\$ 12,600.00
3EM16790BC	Server License, 64 NE Ld, SNMP	\$ 30,000.00	30%	\$ 21,000.00
3EM16790BD	Server License, 128 NE Ld, SNMP	\$ 52,500.00	30%	\$ 36,750.00
3EM16790FS	Server License, 256 NE Ld, SNMP	\$ 69,750.00	30%	\$ 48,825.00
3EM16790FM	Server License, 512 NE Ld, SNMP	\$ 78,375.00	30%	\$ 54,862.50
3EM16790BE	Server License, 1024 NE, SNMP	\$ 87,000.00	30%	\$ 60,900.00
SNMP + MCS-11 + TL1 Software				
3EM16790BL	Server License, 24 NE Ld, SNMP/MCS/TL1	\$ 18,000.00	30%	\$ 12,600.00
3EM16790BM	Server License, 32 NE Ld, SNMP/MCS/TL1	\$ 25,500.00	30%	\$ 17,850.00
3EM16790BN	Server License, 64 NE Ld, SNMP & MCS/TL1	\$ 39,000.00	30%	\$ 27,300.00
3EM16790BP	Server License, 128 NE Ld, SNMP & MCS/TL1	\$ 66,000.00	30%	\$ 46,200.00
3EM16790FT	Server License, 256 NE Ld, SNMP & MCS/TL1	\$ 90,750.00	30%	\$ 63,525.00
3EM16790FN	Server License, 512 NE Ld, SNMP & MCS/TL1	\$ 103,125.00	30%	\$ 72,187.50
3EM16790BQ	Server License, 1024 NE, SNMP & MCS/TL1	\$ 115,500.00	30%	\$ 80,850.00
SNMP Upgrade Pricing - From MCS-11+ TL1 to SNMP + MCS-11 + TL1				
3EM16790CA	Client License and Software SNMP Upgrade	\$ 3,300.00	30%	\$ 2,310.00
3EM16790CC	Server License Upgrade, 24 NE Ld, MCS-11/TL1 to SNMP & MCS-11/TL1	\$ 7,800.00	30%	\$ 5,460.00
3EM16790CD	Server License Upgrade, 32 NE Ld, MCS-11/TL1 to SNMP & MCS-11/TL1	\$ 12,000.00	30%	\$ 8,400.00
3EM16790CE	Server License Upgrade, 64 NE Ld, MCS-11/TL1 to SNMP & MCS-11/TL1	\$ 19,500.00	30%	\$ 13,650.00
3EM16790CF	Server License Upgrade, 128 NE Ld, MCS-11/TL1 to SNMP & MCS-11/TL1	\$ 37,500.00	30%	\$ 26,250.00
3EM16790FV	Server License Upgrade, 256 NE Ld, MCS-11/TL1 to SNMP & MCS-11/TL1	\$ 50,250.00	30%	\$ 35,175.00
3EM16790FO	Server License Upgrade, 512 NE Ld, MCS-11/TL1 to SNMP & MCS-11/TL1	\$ 56,625.00	30%	\$ 39,637.50
3EM16790CG	Server License Upgrade, 1024 NE, MCS-11/TL1 to SNMP & MCS-11/TL1	\$ 63,000.00	30%	\$ 44,100.00
MCS-11+TL1 Upgrade Pricing - From SNMP Only to SNMP+ MC-11 + TL1				
3EM16790CB	Client Log-in License, MCS-11/TL1 Upgrade	\$ 3,000.00	30%	\$ 2,100.00
3EM16790EY	Server License Upgrade, 24 NE Ld, SNMP to SNMP & MCS-11/TL1	\$ 4,500.00	30%	\$ 3,150.00
3EM16790EW	Server License Upgrade, 32 NE Ld, SNMP to SNMP & MCS-11/TL1	\$ 7,500.00	30%	\$ 5,250.00
3EM16790EV	Server License Upgrade, 64 NE Ld, SNMP to SNMP & MCS-11/TL1	\$ 10,500.00	30%	\$ 7,350.00
3EM16790EU	Server License Upgrade, 128 NE Ld, SNMP to SNMP & MCS-11/TL1	\$ 15,000.00	30%	\$ 10,500.00
3EM16790FW	Server License Upgrade, 256 NE Ld, SNMP to SNMP & MCS-11/TL1	\$ 22,500.00	30%	\$ 15,750.00
3EM16790FR	Server License Upgrade, 512 NE Ld, SNMP to SNMP & MCS-11/TL1	\$ 26,250.00	30%	\$ 18,375.00
3EM16790ET	Server License Upgrade, 1024 NE, SNMP to SNMP & MCS-11/TL1	\$ 30,000.00	30%	\$ 21,000.00
NE Upgrade - Only from same Software type				
3EM16790HA	NE Upgrade 24 NE to 32 NE	\$ 4,680.00	30%	\$ 3,276.00
3EM16790HB	NE Upgrade 32 NE to 64 NE	\$ 9,600.00	30%	\$ 6,720.00
3EM16790HC	NE Upgrade 64 NE to 128 NE	\$ 19,800.00	30%	\$ 13,860.00
3EM16790HD	NE Upgrade 128 NE to 256 NE	\$ 16,800.00	30%	\$ 11,760.00
3EM16790HE	NE Upgrade 256 NE to 512 NE	\$ 8,400.00	30%	\$ 5,880.00
3EM16790HF	NE Upgrade 512 NE to 1000 NE	\$ 8,400.00	30%	\$ 5,880.00
TSM-8000 Software Feature Options				
3EM16790BS	SNMP Upstream Reporting	\$ 15,000.00	30%	\$ 10,500.00
3EM16790GJ	Web Interface Feature, All Protocols	\$ 15,000.00	30%	\$ 10,500.00
3EM16790HG	TSM-8000 Non-Nokia NE Support RTU	\$ 1,500.00	30%	\$ 1,050.00
3EM16790HN	TSM-8000 Software Subscription	\$ 30,000.00	30%	\$ 21,000.00
TSM-8000 Client Software / Misc				
3EM16790BR	Client Log-in License	\$ 10,800.00	30%	\$ 7,560.00
TSM-8000 Software Upgrades				
3EM16790JD	TSM-8000 Version 8.0 Upgrade	\$ 12,000.00	30%	\$ 8,400.00
3EM16790JE	TSM-8000 Version 18.0 Upgrade	\$ 12,000.00	30%	\$ 8,400.00
3EM16790JF	TSM-8000 Version 18.1 Upgrade	\$ 12,000.00	30%	\$ 8,400.00
3EM16790JG	TSM-8000 Version 19.0 Upgrade	\$ 12,000.00	30%	\$ 8,400.00
3EM16790JH	TSM-8000 Version 19.1 Upgrade	\$ 12,000.00	30%	\$ 8,400.00
3EM16790JJ	TSM-8000 Version 20.0 Upgrade	\$ 12,000.00	30%	\$ 8,400.00
3EM16790JK	TSM-8000 Version 20.1 Upgrade	\$ 12,000.00	30%	\$ 8,400.00
3EM16790JL	TSM-8000 Version 21.0 Upgrade	\$ 18,000.00	30%	\$ 12,600.00
TSM-8000 Client Workstations - Optional				
3EM16790AC	Client workstation (tower) - Non-redundant, with 19" LCD monitor, WIN XP PRO, 110 VAC	\$ 8,400.00	30%	\$ 5,880.00
TSM-8000 Spares Kits				
3EM16790EJ	Server Spares Kit	\$ 7,618.00	30%	\$ 5,332.60

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3EM16790EK	Client Spares Kit	\$ 2,844.00	30%	\$ 1,990.80
Standard Workstation Accessories				
3EM16790AG	Server LAN Switch, 16 Ports, 110 VAC	\$ 840.00	30%	\$ 588.00
3EM16790AJ	Cable set	\$ 360.00	30%	\$ 252.00
Server Workstation Spares				
3EM16790AL	Server Motherboard, incl. video and NIC functions	\$ 1,020.00	30%	\$ 714.00
3EM16790AM	Server Processor w/Fan	\$ 744.00	30%	\$ 520.80
3EM16790AN	Server Memory 1024MB ea	\$ 504.00	30%	\$ 352.80
3EM16790CW	Server Removable Hard Drive (cloned)	\$ 2,700.00	30%	\$ 1,890.00
3EM16790GM	Hard Drive Bay Spare	\$ 480.00	30%	\$ 336.00
3EM16790AQ	Server Removable Power Supply	\$ 816.00	30%	\$ 571.20
3EM16790AS	Server 4 Port Serial Card	\$ 1,020.00	30%	\$ 714.00
3EM16790CV	Server Dual Power Supply w/Cage	\$ 1,488.00	30%	\$ 1,041.60
3EM16790HL	Server 8 port Serial Card	\$ 2,148.00	30%	\$ 1,503.60
Spare Server/Client Computers				
3EM16790FB	Spare Server computer (rack mount) - with keyboard, WIN 2003, 110 VAC	\$ 14,808.00	30%	\$ 10,365.60
Monitors				
3EM16790EE	Server Monitor, LCD, 17", with bezel, 110 VAC	\$ 1,992.00	30%	\$ 1,394.40
3EM16790EG	Client/TSM2532 Monitor, LCD, 19", 110 VAC	\$ 2,640.00	30%	\$ 1,848.00
Client Workstation Spares				
3EM16790AT	Client Motherboard	\$ 540.00	30%	\$ 378.00
3EM16790AU	Client Processor w/Fan	\$ 576.00	30%	\$ 403.20
3EM16790AV	Client Memory 512MB ea	\$ 264.00	30%	\$ 184.80
3EM16790EC	Client Hard Drive (cloned)	\$ 740.00	30%	\$ 518.00
3EM16790AY	Client Power Supply	\$ 240.00	30%	\$ 168.00
3EM16790AZ	Client Network Card	\$ 264.00	30%	\$ 184.80
3EM16790ED	Client Video Card	\$ 420.00	30%	\$ 294.00
Polling Engine				
3EM16790CL	Model 2601, MCS-11 Polling Engine, Linear, TSM-8000 only, 110 VAC	\$ 5,040.00	30%	\$ 3,528.00
3EM16790CQ	Model 2603, MCS-11 Polling Engine, High Stability Clk, Linear, TSM-8000 only, 110 VAC	\$ 5,520.00	30%	\$ 3,864.00
IP Tunnels				
3EM18968BQ	Model 2701, IP Tunnel, 1 port	\$ 4,800.00	30%	\$ 3,360.00
3EM18968BR	Model 2705, IP Tunnel, 5 port	\$ 5,760.00	30%	\$ 4,032.00
Alarm Encoders				
3EM18968BF	Model 2311, SNMP Alarm Encoder	\$ 5,000.00	30%	\$ 3,500.00
3EM18968BG	Model 2311, SNMP Alarm Encoder with analog option	\$ 6,700.00	30%	\$ 4,690.00
3EM18968BD	Model 2314, SNMP Alarm Encoder	\$ 2,500.00	30%	\$ 1,750.00
3EM18968DY	Model 2316, SNMP Alarm Encoder	\$ 4,000.00	30%	\$ 2,800.00
3EM18968DV	2314 66M Punch Block w/ 5ft cable	\$ 475.00	30%	\$ 332.50
3EM18968DW	2314 66M Punch Block w/ 25ft cable	\$ 500.00	30%	\$ 350.00

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END of TSM-8000 Price Catalog

WAVENCE MICROWAVE NON-INTEGRATED ANTENNA SYSTEM			
Part No	Manufacture P/N	Frequency Band	Description
Microwave Antennas			
1AF33034AAAA	DBUX6-W60W103ACCSQ1E	5.925-6.875/10.7-11.7	DBUX6-W60W103ACCSQ1E
1AF33090AAAA	DBUX6-W60W103ACC	5.925-6.875/10.7-11.7	DBUX6-W60W103ACC
1AF33091AAAA	DBUX8-W60W103ACC	5.925-6.875/10.7-11.7	DBUX8-W60W103ACC
1AF33092AAAA	DBUX10-W60W103ACC	5.925-6.875/10.7-11.7	DBUX10-W60W103ACC
1AF33135AAAA	SPF2-52CN1S1R	5.25-5.85	Ant SC2-W60CC,2ft,6GHz w/ 5.8GHz,Not Int
MA0528-23AN	MA0528-23AN	5.25-5.825	MA0528-23AN - 1ft PANEL 23 DBI - Panel Ant., N-female, Includes Radome
MA0528-28AN-W	MA0528-28AN-W	5.25-5.825	MA0528-28AN - 2ft PANEL 28 DBI - Panel Ant., N-female, Includes Radome
10036179	PADX10-W57AC1S1R	5.725-6.875	ANT PADX10-W57AC1S1R
10036753	PADX6-W57AC7S1R	5.725-6.875	ANT/RAD/SWAY BAR KIT PADX6-W57AC7S1R
10036754	PADX8-W57AC7S1R	5.725-6.875	ANT/RAD/SWAY BAR KIT PADX8-W57AC7S1R
10037381	UXA6-W57AC7	5.725-6.875	Antenna Sway Bar Kit UXA6-W57AC7S1
10037382	UXA8-W57AC7	5.725-6.875	ANT SWAY BAR KIT UXA8-W57AC7S1
10037383	UXA10-W57AC7	5.725-6.875	ANT SWAY BAR KIT UXA10-W57AC7S1
10038202	PADX8-W57AC7SGR	5.725-6.875	ANT/RAD/SWAY BAR KIT PADX8-W57AC7SGR 5.7
10046461	PA4-W57DC1S1R	5.725-6.875	PA4-W57DC1S1R
37400097	PAD6-W57BC7S1R	5.725-6.875	ANT/RAD KIT PAD6-W57BC7S1R
37500079	PAD8-W57AC7S1R	5.725-6.875	ANT/RAD/SWAY BAR KIT PAD8-W57AC7S1R
10027932	DA8-W57AC1S1	5.725-6.875	DA8-W57AC1S1 - 8ft Hi Perf, CPR137G, Single Pol Wideband Ant., Includes
10050613	DA8-W57AC1SG	5.725-6.875	DA8-W57AC1SG
10038231	PADX6-U57AC7S1R	5.725-7.125	ANT/RAD/SWAY BAR KIT PADX6-U57AC7S1R
10038232	PADX8-U57AC7S1R	5.725-7.125	ANT/RAD/SWAY BAR KIT PADX8-U57AC7S1R
10038233	PADX10-U57AC7S1R	5.725-7.125	ANT/RAD/SWAY BAR KIT PADX10-U57AC7S1R
10038274	UXA6-U57AC7	5.725-7.125	ANT SWAY BAR KIT UXA6-U57AC7S1
10038276	UXA8-U57AC7	5.725-7.125	ANT SWAY BAR KIT UXA8-U57AC7S1
10038461	PADX6-U57AC1SGR	5.725-7.125	ANT/RAD KIT PADX6-U57AC1SGR 5.725-7.125A
10038464	UXA6-U57AC1SG	5.725-7.125	ANT UXA6-U57AC1SG 5.725-7.125 GHZ
10039971	UXA10-U57AC7	5.725-7.125	UXA10-U57AC7
10025486	DA8-59AC	5.925-6.425	ANT DA8-59AC1S1 5.925-6.425 GHz
10025500	DAX8-59AC	5.925-6.425	ANT DAX8-59AC1S1 5.925-6.425 GHz
10025668	RFS DA10-59AC1S1	5.925 - 6.425	ANT DA10-59AC1S1 5.925-6.425 GHz
10027937	RFS DAX10-59AC1S1	5.925 - 6.425	ANT DAX10-59AC1S1 5.925-6.425 GHz
1AF33334AAAA	RFS 20010708	5.925 - 6.425	Reflector for DAX8-59AC Ant (20010708)
10027913	DA12-59AC	5.925-6.425	ANT DA12-59AC1S1 5.925-6.425 GHz
10036822	UXA6-59CC	5.925-6.425	UXA6-59BC1S1
1AF33339AAAA	RFS UXA6-59ACSQ1E	5.925 - 7,125	Ant UXA6-59ACSQ1E, 6ft, 6GHz,Extreme Rad
10036823	UXA8-59BC	5.925-6.425	UXA8-59BC1S1
1AF33340AAAA	RFS UXA8-59ACSQ1E	5.925 - 7,125	Ant UXA8-59ACSQ1E, 8ft, 6GHz,Extreme Rad
10036824	UXA10-59BC	5.925-6.425	UXA10-59BC1S1
10038951	UXA8-59BC1SG	5.925-6.425	UXA8-59BC1SG
10041161	UXA12-59AC4	5.925-6.425	UXA12-59AC4
10045664	DA12-59AC1SG	5.925-6.425	DA12-59AC1SG
10047242	SU6-59BC2	5.925-6.425	SU6-59BC2
37400100	PAD6-59BC7S1R	5.925-6.425	ANT/RAD/SWAY BAR KIT PAD6-59BC7S1R
37500031	PAD8-59AC	5.925-6.425	ANT PAD8-59AC1S 5.925-6.425GHZ
37500055	PAD8-59AC1S1R	5.925-6.425	Antenna/Radome Kit PAD8-59AC1S1R
37500082	PAD8-59AC7S1R	5.925-6.425	ANT/RAD/SWAY BAR KIT PAD8-59AC7S1R
37600051	PAD10-59AC1S1R	5.925-6.425	ANT/RAD KIT PAD10-59AC1S1R
10036720	UXA6-W59BC7	5.925-6.875	ANT/SWAY BAR KIT UXA6-W59BC7S1
1AF33341AAAA	RFS UXA6-W59ACSQ1E	5.925 - 7,125	Ant UXA6-W59ACSQ1E, 6ft,6GHz,Extreme Rad
1AF33352AAAA	RFS UXA6-W59ACSQGE	5.925 - 7,125	Ant UXA8-W59ACSQGE,6ft,6GHz,Extreme,Grey
10036721	UXA8-W59AC7	5.925-6.875	ANT/SWAY BAR KIT UXA8-W59AC7S1
1AF33148AAAA	RFS UXA8-W59ACSQ1E	5.925 - 7,125	Ant UXA8-W59ACSQ1E,8ft, 6GHz,Extreme Rad
10040920	UXA6W59AC7F4HGWK1	5.925-6.875	KIT ANT UXA6-W59 TF CC4FT HANGERASSY&HDW

10040923	UXA8W59ACTF4HGWKT2	5.925-6.875	KIT ANT UXA8-W59 TF CC4FT HANGERASSY&HDW
10043090	PADX6-W59BC7S1R	5.925-6.875	PADX6-W59BC7S1R
37400102	PAD6-W59BC7S1R	5.925-6.875	ANT/RAD/SWAY BAR KIT PAD6-W59BC7S1R
37400155	PADX6-W59BC1S1R	5.925-6.875	Antenna/Radome Kit PADX6-W59BC1S1R
37500025	UXA8-W59AC	5.925-6.875	ANT UXA8-W59AC1S1 5.925-6.875
37500084	PAD8-W59AC7S1R	5.925-6.875	ANT/RAD/SWAY BAR KIT PAD8-W59AC7S1R
37500130	PADX8-W59AC1S1R	5.925-6.875	Antenna/Radome Kit PADX8-W59AC1S1R
37500138	PADX8-W59AC7S1R	5.925-6.875	ANT/RAD KIT PADX8-W59AC7S1R
37600055	UXA10-W59AC	5.925-6.875	ANT UXA10-W59AC1S1 5.925-6.875
1AF33064AAAA	RFS UXA10-W59ACSQ1E	5.925 - 7.125	Ant UXA10-W59ACSQ1E,10ft,6GHz,Extrm Wthr
37700040	UXA12-W59AC	5.925-6.875	ANT UXA12-W59AC1S1 5.925-6.875
1AF33065AAAA	RFS UXA12-W59ACSQ1E	5.925 - 7.125	Ant UXA12-W59ACSQ1E,12ft,6GHz,Extrm Wthr
1AF33182AAAA	RFS DAX15-59AC	5.925 - 7.125	Ant DAX15-59AC, 15ft, 6GHz, Dual Pol,CPR
1AF33206AAAA	RFS UXA8-W59ACU	5.925 - 7.125	Ant UXA8-W59ACU,8ft,6GHz,DP,250km,2 sway
10049627	SB4-W60EC	5.925-7.125	SB4-W60EC
10049629	SBX4-W60EC	5.925-7.125	SBX4-W60EC
10049631	SB6-W60DC2	5.925-7.125	SB6-W60DC2
10049633	SBX6-W60DC2	5.925-7.125	SBX6-W60DC2
10050120	SCX3-W60BC	5.925-7.125	SCX3-W60BC
1AF33051AAAA	RFS SLX3-W60AD	5.925 - 7.125	Ant not int 3ft class3+ 6GHz DP
1AF33318AAAA	RFS UXA4-59AC	5.925 - 7.125	Ant Not Int UXA4-59AC 4ft, 6GHz,DP
1AF33332AAAA	RFS DA10-59AC2	5.925 - 7.125	Ant Not Int DA10-59AC2,10f,6G,DP,High Wnd
10025520	DA8-65AC	6.425-7.125	ANT DA8-65AC1S1 6.425-7.125 GHz
10025533	RFS DAX8-65AC1S1	6.425 - 7.125	Antenna DAX8-65AC1S1 6.425-7.125 GHz
10025535	UXA8-65AC	6.425-7.125	ANT UXA8-65AC1S1 6.425-7.125 GHz
10031083	UXA6-65BD	6.425-7.125	UXA6-65BD
10032475	UXA6-65BC	6.425-7.125	ANT UXA6-65BC1S1 6.425-7.125 GHz
10036663	PAD10-65AC7S1R	6.425-7.125	PAD10-65AC7S1R
10036722	PAD6-65BC7	6.425-7.125	PAD6-65BC7S1
10043088	PAD6-65BC7S1R	6.425-7.125	PAD6-65BC7S1R
10043089	PAD8-65AC7S1R	6.425-7.125	PAD8-65AC7S1R
37400161	PAD6-65BC1SGR	6.425-7.125	ANT/RAD KIT PAD6-65BC1SGR
37500133	PAD8-65AC1SGR	6.425-7.125	Antenna/Radome Kit PAD8-65AC1SGR
10041660	SB6-W100CC	10.0-11.7	SB6-W100CC
10049683	SC2-W100CC	10.0-11.7	SC2-W100CC
10049685	SCX2-W100CC	10.0-11.7	SCX2-W100CC
10049692	SC3-W100BC	10.0-11.7	SC3-W100BC
10049695	SCX3-W100BC	10.0-11.7	SCX3-W100BC
1AF31489AAAA	RFS SCX3-W100BB	10.7 - 11.7	Ant Not Int 3ft DP UHP 10/11GHz
10049698	SB4-W100EC	10.0-11.7	SB4-W100EC
10049701	SBX4-W100EC	10.0-11.7	SBX4-W100EC
10050547	SU4-107DCO	10.0-11.7	SU4-107DCO
10049704	SB6-W100DC2	10.0-11.7	SB6-W100DC2
1AF33071AAAA	RFS DA6-107ACSQ1E	10.7 - 11.7	Ant DA6-107ACSQ1E, 6ft,11GHz, Extrm Wthr
10050364	SB4-W100EC2	10.0-11.7	SB4-W100EC2
10050373	SCX3-W100BC-MODG	10.0-11.7	SCX3-W100BC-MODG
10011716	UXA8-107AD	10.7-11.7	UXA8-107AD
10025551	UXA8-107AC	10.7-11.7	ANT UXA8-107AC1S1 10.7-11.7GHZ
10025552	DAX8-107AC	10.7-11.7	ANT DAX8-107AC1S1 10.7-11.7GHZ
1AF13707AAAA	RFS UXA6-107BB	10.7 - 11.7	Ant Not Int 6ft DP UHP XPD 11GHz
10031625	UXA6-107BC	10.7-11.7	ANT UXA6-107BC1S1 10.7-11.7GHZ
10031452	UXA6-107BC1SG	10.7-11.7	UXA6-107BC1SG - 6ft Hi Perf Directive, CPR90G, Dual Pol Ant., Includes R
10031862	SU6-107BC	10.7-11.7	ANT SU6-107BC1S1 10.7-11.7 GHZ
10032174	SUX6-107BC	10.7-11.7	ANT SUX6-107BC1S1 10.7-11.7GHZ
10034124	SU6-107BC2	10.7-11.7	ANT SU6-107BC2S1 10.7-11.7 GHZ
10036350	SU6-107BC7	10.7-11.7	ANT/RAD/SWAY BAR KIT SU6-107BC7S1
10040922	UXA6107BDTF4HGWKT4	10.7-11.7	KIT ANT UXA6-107 TF VB4FT HANGERASSY&HDW
10044370	SU4-107DD	10.7-11.7	SU4-107DD
10044372	SU4-107DC	10.7-11.7	SU4-107DC
1AF32721AAAA	RFS SUX4-107DC2HG	10.7 - 11.7	Antenna SUX4-107DC2HG
10044375	SUX4-107DC	10.7-11.7	SUX4-107DC
10044416	UXA4-107DD	10.7-11.7	UXA4-107DD - 4 ft Hi Perf Directive, PDR100, Dual Pol Ant., Includes Rado
1AF30300AAAA	RFS UXA4-107DB	10.7 - 11.7	Ant Not Int 4ft DP High XPD 11 GHz
1AF33314AAAA	RFS UXA4-107DC2	10.7 - 11.7	Ant Not Int UXA4-107DC2,4ft,11G,DP,250km
10044417	UXA4-107DC	10.7-11.7	UXA4-107DC
1AF33054AAAA	RFS SLX3-W100AB	10.7 - 11.7	Ant not int 3ft class3+ 11GHz DP
10045207	SUX4-107DC1SG	10.7-11.7	SUX4-107DC1SG
10045212	SU4-107DC2	10.7-11.7	SU4-107DC2
10045244	SUX4-107DC7	10.7-11.7	SUX4-107DC7
1AF33036AAAA	SHPX4-11W-6WH	10.7-11.7	ANT MW 11GHz, 4ft, SHPX4-11W-6WH

10045451	UXA10-107AC8SG	10.7-11.7	UXA10-107AC8SG
409120391	UXA10-107AC8SG	10.7-11.7	ANTENNA, UHX10-107-P3A, PARABOLIC, 10.7-11.7GHZ, 10FT, CPRG F
10045796	SUX4-107DC2HG	10.7-11.7	SUX4-107DC2HG
10045860	SUX4-107DC2H	10.7-11.7	SUX4-107DC2H
10047243	UA8-107AC2	10.7-11.7	UA8-107AC2
10049853	UXA6-107BC1SM	10.7-11.7	UXA6-107BC1SM
10030822	UXA6-107BD1S1	10.7-11.7	UXA6-107BD1S1
10032174	RFS SUX6-107BC	10,7 - 11,7	ANT SUX6-107BC1S1 10.7-11.7GHZ
10036470	RFS PADX6-107BCTS1RR	10,7 - 11,7	Ant Not Int PADX6-107BCTS1R,6ft,11GHz,DP
37600089	UXA8-107AC7SG	10.7-11.7	ANT UXA8-107AC7SG 10.7-11.7GHZ
1AF33338AAAA	RFS DA8-107AC1S1	10,7 - 11,7	Ant DA8-107AC1S1, 8ft, 11GHz
1AF33052AAAA	RFS SLX3-127AB	12,75 - 13,25	Ant not int 3ft class4 13GHz DP
10046714	SCX2-142CB	14,2-15,35	SCX2-142CB
1AF33060AAAA	RFS SLX3-142AB	14,2 - 15,35	Ant not int 3ft class4 15GHz DP
1AF28842AAAA	RFS SBX6-142CB	14,2 - 15,35	Ant Not Int 6ft 200 Km/h DP UHP 15 Ghz
1AF28913AAAA	RFS SB6-142CB2	14,2 - 15,35	Ant Not Int 6ft 250 Km/h SP UHP 15 Ghz
1AF16419AAAA	RFS UXA8-142AB	14,2 - 15,35	Ant Not Int 8ft DP UHP XPD 15GHz
10046704	SC2-190CB	17,7-19,7	SC2-190CB
10046715	SCX2-190CB	17,7-19,7	SCX2-190CB
10047707	SC3-190BB	17,7-19,7	SC3-190BB
10047764	SCX3-190BB	17,7-19,7	SCX3-190BB
1AF33059AAAA	RFS SLX3-190AB	17,7 - 19,7	Ant not int 3ft class4 18GHz DP
10044326	UXA4-190DB	17,7-19,7	UXA4-190DB
10049861	UXA4-190DB1SM	17,7-19,7	UXA4-190DB1SM
10047772	SBX4-190EB	17,7-19,7	SBX4-190EB
1AF05821AAAA	RFS UXA6-190BB	17,7 - 19,7	Ant Not Int 6ft DP UHP XPD 18GHz
1AF28923AAAA	RFS SBX6-190CB2	17,7 - 19,7	Ant Not Int 6ft 250 Km/h DP UHP 18GHz
10046716	SCX2-220CB	21,2-23,6	SCX2-220CB
1AF33058AAAA	RFS SLX3-220AB	21,2 - 23,6	Ant not int 3ft class4 23GHz DP
1AF33057AAAA	RFS SLX3-250AB	24,25 - 26,5	Ant not int 3ft class4 26GHz DP
1AF33056AAAA	RFS SLX3-280AB	27,0 - 28,0	Ant not int 3ft class4 28GHz DP
1AF33055AAAA	RFS SLX3-320AB	31,0 - 32,0	Ant not int 3ft class4 32GHz DP
1AF33327AAAA	RFS SCX3-380BB	37,0 - 39,5	Ant Not Int 3ft DP UHP 38GHz
1AF33328AAAA	RFS SLX3-380AB	37,0 - 39,5	Ant not int 3ft class4 38GHz DP
10047773	SBX4-220EB	21,2-23,6	SBX4-220EB
			Radomes and Sway Kits
10011281	RFS SMA-WK-8		KIT 250KMH 8FT STD BACK. SMA-WK-8
10011282	RFS SMA-WK-10		KIT 250KMH 10FT STD BACK. SMA-WK-10
10011400			Kit Sway Bar 4ft SL (SMA-WK-4) SB
10011402	RFS SMA-WK-3		KIT 250KMH 3FT 33/1000 SMA-WK-3
1AF30206AAAA	RFS SMA-WK-4D		kit 250 km/h 4ft var D UXA>10GHz + SB
10030415	RFS SMA-WK-6A		KIT 250KMH 6Ft Adv Back. SMA-WK-6A
10037261			KIT SWAY BAR 4FT SB/SBX SMA-SK-4
10031054			Kit Sway Bar 6ft Refl (SMA-SK-60-2000A)
10037558			Sway Bar Kit 6ft SB6/SBX6 Antennas (SMA-SK-6)
10031053			Kit Sway Bar 8-12ft Refl (SMA-SK-60-3000A)
10041011	RFS SMA-SK-OMT-SCX2		KIT SWAY-BAR SCX2 OMT PIPE 48/114
10041020			KIT ADDITIONAL SWAY-BAR SC3 SMA-SK-3
10042784			Sway Bar/Tower Universal Connecting Kit (SMA-SKO-Universal)
311793-003-W			6ft Unheated Radome, Fiberglass (white deep)
			Dehydrator and Manifolds
10042202			APD20-D-35XH0R00S0 , 120v, Lo psi, no purge, < 7800' 6-12GHZ
10042194			APD20-D-35XH0R00S1 120v, 3-5psi, Lo psi alm, 10 day purge, < 7800' 6-12C
409085271			KIT, AE01D-D1658-100, MT050/MT/XT300 WALL SHELF
20040835			Dehydrator Wall Shelf for APD20 (20040835)
920202-W			Gas Distribution Manifold, 2 Port, 0-15PSIG (920202)
920204-W			Gas Distribution Manifold, 4 Port, 0-15PSIG (920204)
920206-W			Gas Distribution Manifold, 6 Port, 0-15PSIG (920206)
920208-W			Gas Distribution Manifold, 8 Port, 0-15PSIG (920208)
10042195			Automatic Dehydrator (APD20-D-35EH2R00S1), 120v, 3-5 psi, Hum alm, Lo
10042196			Automatic Dehydrator (APD20-D-35EH2R24S1), 120v, 3-5 psi,
10042204			Automatic Dehydrator (APD70-D-35XH0R00S0), Hi capacity (< 28K ft 6-12 C
			Waveguide, Connectors and Associated Parts
810265-001			Standard Elliptical Waveguide, E60 (5.6 - 6.425 GHz)
810265-002			Premium Elliptical Waveguide, EP60 (5.6 - 6.425 GHz)
399269-101			Connector, Tunable / CPR137G (bottom) (C137-060TG)
399269-103			Connector, Non-Tunable / CPR137G (top) (C137-060FG)

921234-061		Grounding Kit - 60in wire, E60 (GKIT-60-060)
920981-003		Hanger Kit for E60 (CLAMP-060) (10 pack, bolt-on)
915255		Angle Member Adapter Kit, 3/8in Stainless Steel (ANGLE-CLPI) (10 pack)
ANGLE-CLPI		Angle Member Adapter Kit, 3/8in Stainless Steel (ANGLE-CLPI) (10 pack)
CEIL12-5I		Ceiling Adapter Kit, 12in (CEIL12-5I, 514608-003) (5 pack) - waveguide only
920831		Wall/Roof Feed Thru E/EP60 (WFT-060) - 1 per boot
400108		Pressure Window (WPW-137EP) - mates to CPR137G
915663		4in Boot with 1 Hole for E60 (BOOT4-060)
815487-001		Standard Elliptical Waveguide E105 (10.0 - 11.7 GHz)
815487-002		Premium Elliptical Waveguide EP105 (10.0 - 11.7 GHz)
399503-101		Connector, Tunable (C90-105TG)
399503-103		Connector, Non-Tunable (top) (C90-105FG)
916533-108		Hoisting Grip (HOIST1-105L) - Lace-up (E105,E78)
921234-108		Grounding Kit - 60in wire, E105 (GKIT-60-105)
920981-007		Hanger Kit for E105, 7/8in coax (CLAMP-105) (10 pack, bolt-on)
920745		Wall/Roof Feed Thru E/EP105 - 1 per boot (WFT-105)
400130		Pressure Window (WPW-090EP) - mates to CPR90G
400124		2ft Twistflex (TF090-CC1-024I) - CPR90G/CPR90G
915665		4in Boot with 1 Hole for E105 (BOOT4-105)
15008330-STD-V		Standard Elliptical Waveguide, E65 (5.9 - 7.125 GHz)
15008330-PREM-V		Premium Elliptical Waveguide, EP65 (5.9 - 7.125 GHz)
399289-101		Connector, Tunable / CPR137G (C137-065FG)
399289-103		Connector, Non-Tunable (top) (C137-065FG)
921234-065		Grounding Kit - 60in wire, E65 (GKIT-60-065)
920981-004		Hanger Kit for E65-70 (CLAMP-114) (10 pack, bolt-on, 1.25in)
CLAMP-114		Kit Hngr E/Ep65 10/Kt
920738		Wall/Roof Feed Thru E/EP65 (WFT-065) - 1 per boot
915006-W		Hardware Kit, HDWK3/8-16X1, 3/8 - 16 x 1 bolt (915006) - 10 each lock was
915751		4in Boot with 1 Hole for E65 (BOOT4-065)
810268-001		Standard Elliptical Waveguide, E185 (17.3 - 19.7 GHz)
810268-002		Premium Elliptical Waveguide, EP185 (17.3 - 19.7 GHz)
916534-012		Hoisting Grip (HOIST1-185L) - Lace-up (L12,E185)
921234-191		Grounding Kit, 60in wire, E185 (GKIT-60-185)
920981-010		Hanger Kit for E185 (CLAMP-185) (10 pack, bolt-on)
920726		Wall/Roof Feed Thru (WF-185) - 1 per boot
400184		Pressure Window (PW-BW220) PBR220/UBR220
915664		4in Boot with 1 Hole for E185 (BOOT4-185)
914791-W		Load Termination WR-90 / CPR90G Flange (91479)
915422-W		Load Termination WR-137 / CPR137G Flange (915422)
311372-W		Cover Plate kit WR-137 / CPR137G Flange (311372)
10037094		Cover Plate kit WR-90 / PDR100 or UDR100 Flange (10037094)
913412		CPR137G Flange Rebuild Kit (when reusing antennas OR waveguide) (used at
409081635		UNIV ADJ LEG MT- UP TO 10 3/4 LEG (Ant. Pipe Mount/Ice Shield)
20036962		BASIC FEED 02-190 F2 BF 055 MM
1AF06466AAAA		VSTRUT-P3KIT.Inner, 4'-6' antenna, 5' pipe
1AF29408AAAA		Non-Penetrating Tripod (TRPD1 / TRPD-HD)
1AF26069AAAA		4-1/2" x 126" Mast Pipe (P4126)
1AF29407AAAA		1/2"x18"x48" Rubber Mat (6 Required) (MAT18)
1AF29406AAAA		Ballast Tie Down Kit (3 Required) (BHD-K)
30033358		TUBING, POLYURETHANE 3/8 OD X .245 (per ft)
409082377		BOOT-BAZERO PROT RUB 4IN 4IN BK
1AF29406AAAA		Ballast Tie Down Kit
1AF29407AAAA		Rubber Mat 1/2inch x 18inch x 48inch
1AF29408AAAA		Heavy-Duty Non-Penetrating Tri
WPF1G-1		KIT WTHPRF CONNS&SPLICE
ANGLE-CLPI		Angle Member Adapter Stainless Steel, 3/8in Thread Kit of 10
1AD082220001		PIPE, P2126, SCHEDULE 40 PLAIN END HOT
SNAP-ST-158		Hanger, Stackable 1-5/8 10 Kit
409085024		Cable, 25-pr, Conn -Conn, 25, RTU -66 Blk
3CC50097AB		Fiber storage -pole/wall mount (100m) GR3108
15006830-STD		FLEXWELL Elliptical Waveguide, 21.2 - 23.6 GHz (Per Ft) E220J
15347020		Connector FLEXWELL waveguide PBR220
1AF25375AAAA		Hanger Kit with three holes for EW90 wav
HOIST1-114L		Grip Hoisting L114 E65 Lace-Up
HOIST1-158L		Grip Hoisting L158 E60 Lace-Up
915612-W		Hardware Kit for metric conversion (includes metric hardware, half-depth CPR
400119		Pressure Window (WPW-112EP) - mates to CPR112G
400014		2ft Twistflex - CPR137G/CPR137G (TF137-CC1-024I)
400113		2ft Twistflex - CPR112G/CPR112G (TF112-CC1-024I)
10037376		3ft Twistflex - HC Radio - PBR220/UBR220, Tin-plated flanges (TF220-BW3-

10038755			3ft Twistflex - HC Radio - PDR70/UDR70 (TF070-DV1-090M)
10040700			3ft Twistflex - HC Radio - PBR100/PDR100 (TF100BD3-090M)
10037312			4ft Twistflex - non-integrated ODU300 (NOT HC!) to antenna - PBR100 flange
10038692			4ft Twistflex - non-integrated ODU300 (NOT HC!) to antenna - PBR220 - UBI
10038758			4ft Twistflex - HC Radio - PDR70/UDR70 (TF070-DV1-120M)
10038797			4ft Twistflex - HC Radio - PBR100/UBR100 (TF100-BW1-120M)
10040701			4ft Twistflex - HC Radio - Tin-plated,PBR100/PDR100 (TF100BD3-120M)
400196			4ft Twistflex - non-integrated ODU300 (NOT HC!) to antenna - CPR137G flange
400394			4ft Twistflex - CPR90G/CPR90G (TF090-CC1-048I)
TC-MDIS-08			Ice Shield MWA Curved 8ft
TC-MDIS-10			Ice Shield MWA Curved 10ft
			Twistflex, Hanger Kits and Accessories
916705-W			Twistflex hanger kit WR90 (916705)
1AF15840AAAA			Twistflex Hanger Kit WR42 (PBR220) - RFS does not have a 220 hanger - Anc
916933-W			Twistflex hanger kit WR137 (916933)
400015			3ft Twistflex (TF137-CC1-036I) - CPR137G/CPR137G
400125			3ft Twistflex (TF090-CC1-036I) - CPR90G/CPR90G
10038689			Twistflex Flexible Waveguide for Microwave Radio System, 11GHz, 1.2m TL
400013			1ft Twistflex (TF137-CC1-012I) - CPR137G/CPR137G
916626			CLAMP SNAP-IN LCF158 Stack Kit 10 - HANGER, STACKABLE 1-5/8 10 1
HOIST2-L01			Hoisting Grip (HOIST2-L01) - Lace-up, 2 loop
			Times Microwave Systems (TMS) LMR Parts and Accessories
1AC014320002			LMR400 (HS: 2 runs, NS: 1 run) + (if non-integ, dual pol and 2 channels: 2 run
1AB095530045			PPC Connector (compression) - straight male (3 per LMR run) (TMS)
1AB095530046			PPC Connector (compression) - straight female (1 per LMR run) (TMS)
1AB383930001			PPC Compression Tool (1 per deployment) (TMS)
1AB350440001			LMR grounding kit (GKS400TT) (TMS)
			SitePro1 (Valmont) Ice Shields, Tieback Steel, Parts and Accessories
409081593			Valmont flat Ice Shield - 4ft (ISMD4, 800250) ADD PIPE MOUNT
409081601			Valmont flat Ice Shield - 6ft (ISMD6, 800251) ADD PIPE MOUNT
409081619			Valmont flat Ice Shield - 8ft (ISMD8, 800252) ADD PIPE MOUNT AND WE
1AF19234AAAA			Valmont flat Ice Shield - 10ft (ISMD10, 800253) ADD PIPE MOUNT AND V
409108073			Valmont Pipe Mount Extension weldment for Ice Shields (PME2, B1935)
1AF24588AAAA			Valmont ice shield KIT - 4ft (ISMD4-R5LL = 800250 (ice shield) + 409081365
1AF24589AAAA			Valmont ice shield KIT - 6ft (ISMD6-R5LL = 800251 (ice shield) + 409081365
1AF24587AAAA			Valmont ice shield KIT - 8ft (ISMD8-R5LL = 800252 (ice shield) + 409081365
1AF24586AAAA			Valmont ice shield KIT - 10ft (ISMD10-R5LL = 800253 (ice shield) + 409081365
1AF28451AAAA			Tieback Steel - Bulk Angle 4" X 4" X 1/4" x 20' (ANG414) - (1 per antenna)
1AF03676ABAA			Bulk Pipe (for pipe mount) - 4 1/2" x 72" (Valmont: P472)
1AF22298AAAA			4 1/2" Universal Ring Mount (Valmont: 801068, LWRM) - PREFERRED - 1 r
409081494			MTG-B1656 BRKT 0IN 0IN 0IN STL CHN MNT *
1AF25795AAAA			FLUSH MOUNT ADAPTER DUAL LEVEL
1AF07352AEAA			HD Chain Mount with Stiff Arm (Valmont: B1649 + B1656, DCH8) NOT PRI
1AF25968AAAA			Universal Tubular-Arm Pipe Mount (Face Mount) (TAP-472)
1AF07352AGAA			1/2in Stainless Steel Banding Buckles (for monopole) (Valmont: BU254) - per
1AD082220001			Bulk Pipe (for pipe mount) - 2-3/8in x 126in (Valmont: P2126)
1AF26057AAAA			Hollow Wall Anchor Kit (HWK58)
1AF26056AAAA			Solid Wall Anchor Kit (SWK58)
409117462			Universal Pipe Mount (No Pipe) R5-UP - Accepts Mounting Pipes 1-1/2" to 4
1AF03676AAAA			Two Slider Brackets Wall Mount w/ Hardware (4 1/2in) (SBWM-412)
1AB301140001			LDF4.5-50 (5/8in coax)
			SitePro1 (Valmont) Misc. Microwave Parts and Accessories
409081510			LMR Cushion Hanger (4 hole) - (Valmont: B1676, SRLR44-K) - complete with
1AD219620001			BRL Cushion BC141X 1-5/8,10@0.24,10p (Valmont BC1410)

END of NON-INTEGRATED ANTENNA SYSTEMS

IS				
Size (ft)	# Struts	NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price
6	1	\$ 42,000.00	60%	\$16,800.00
6	1	\$ 29,500.00	60%	\$11,800.00
8	1	\$ 37,000.00	60%	\$14,800.00
10	1	\$ 44,000.00	60%	\$17,600.00
2	0	\$ 3,100.00	60%	\$1,240.00
1	0	\$ 1,410.01	60%	\$564.00
2	0	\$ 1,974.00	60%	\$789.60
10	1	\$ 24,000.00	60%	\$9,600.00
6	2	\$ 13,000.00	60%	\$5,200.00
8	2	\$ 19,500.00	60%	\$7,800.00
6	1	\$ 18,750.00	60%	\$7,500.00
8	1	\$ 23,500.00	60%	\$9,400.00
10	1	\$ 27,500.00	60%	\$11,000.00
8	1	\$ 21,500.00	60%	\$8,600.00
4	1	\$ 6,400.00	60%	\$2,560.00
6	2	\$ 12,000.00	60%	\$4,800.00
8	2	\$ 16,500.00	60%	\$6,600.00
8	1	\$ 17,000.00	60%	\$6,800.00
8	1	\$ 22,000.00	60%	\$8,800.00
6	2	\$ 13,300.00	60%	\$5,320.00
8	2	\$ 20,000.00	60%	\$8,000.00
10	2	\$ 31,000.00	60%	\$12,400.00
6	1	\$ 19,500.00	60%	\$7,800.00
8	1	\$ 27,000.00	60%	\$10,800.00
6	1	\$ 14,000.00	60%	\$5,600.00
6	1	\$ 20,000.00	60%	\$8,000.00
10	1	\$ 32,000.00	60%	\$12,800.00
8	1	\$ 14,700.00	60%	\$5,880.00
8	1	\$ 17,000.00	60%	\$6,800.00
10		\$ 23,500.00	60%	\$9,400.00
10		\$ 25,000.00	60%	\$10,000.00
		\$ 11,200.00	60%	\$4,480.00
12	1	\$ 35,000.00	60%	\$14,000.00
6	1	\$ 16,500.00	60%	\$6,600.00
6	1	\$ 35,000.00	60%	\$14,000.00
8	1	\$ 21,000.00	60%	\$8,400.00
8	1	\$ 52,000.00	60%	\$20,800.00
10	1	\$ 29,000.00	60%	\$11,600.00
8	1	\$ 28,000.00	60%	\$11,200.00
12	1	\$ 45,000.00	60%	\$18,000.00
12	1	\$ 37,000.00	60%	\$14,800.00
6	1	\$ 15,000.00	60%	\$6,000.00
6	2	\$ 10,500.00	60%	\$4,200.00
8	1	\$ 10,250.00	60%	\$4,100.00
8	1	\$ 14,000.00	60%	\$5,600.00
8	2	\$ 15,500.00	60%	\$6,200.00
10	1	\$ 23,000.00	60%	\$9,200.00
6	1	\$ 19,000.00	60%	\$7,600.00
6	1	\$ 35,000.00	60%	\$14,000.00
6	1	\$ 36,000.00	60%	\$14,400.00
8	1	\$ 24,000.00	60%	\$9,600.00
8	1	\$ 49,000.00	60%	\$19,600.00
6	1	\$ 23,000.00	60%	\$9,200.00

8	1	\$	28,000.00	60%	\$11,200.00
6	2	\$	12,500.00	60%	\$5,000.00
6	2	\$	11,750.00	60%	\$4,700.00
6	1	\$	11,750.00	60%	\$4,700.00
8	1	\$	23,000.00	60%	\$9,200.00
8	2	\$	17,000.00	60%	\$6,800.00
8	1	\$	14,395.50	60%	\$5,758.20
8	2	\$	21,000.00	60%	\$8,400.00
10	1	\$	27,600.00	60%	\$11,040.00
10	1	\$	62,000.00	60%	\$24,800.00
12	1	\$	48,000.00	60%	\$19,200.00
12	1	\$	74,000.00	60%	\$29,600.00
15	1	\$	165,000.00	60%	\$66,000.00
8	1	\$	31,000.00	60%	\$12,400.00
4	1	\$	5,600.00	60%	\$2,240.00
4	1	\$	6,300.00	60%	\$2,520.00
6	1	\$	11,000.00	60%	\$4,400.00
6	1	\$	10,500.00	60%	\$4,200.00
3	0	\$	3,500.00	60%	\$1,400.00
3	0	\$	3,717.00	60%	\$1,486.80
4	0	\$	17,000.00	60%	\$6,800.00
10	0	\$	25,500.00	60%	\$10,200.00
8	1	\$	17,000.00	60%	\$6,800.00
8	1	\$	18,000.00	60%	\$7,200.00
8	1	\$	23,000.00	60%	\$9,200.00
6	1	\$	18,000.00	60%	\$7,200.00
6	1	\$	18,000.00	60%	\$7,200.00
10	2	\$	22,500.00	60%	\$9,000.00
6	1	\$	8,700.00	60%	\$3,480.00
6	2	\$	10,500.00	60%	\$4,200.00
8	2	\$	15,200.00	60%	\$6,080.00
6	1	\$	11,250.00	60%	\$4,500.00
8	1	\$	16,500.00	60%	\$6,600.00
6	1	\$	8,084.10	60%	\$3,233.64
2	0	\$	1,625.00	60%	\$650.00
2	0	\$	2,325.00	60%	\$930.00
3	0	\$	2,300.00	60%	\$920.00
3	0	\$	3,200.00	60%	\$1,280.00
3	1	\$	2,200.00	60%	\$880.00
4	1	\$	5,500.00	60%	\$2,200.00
4	1	\$	6,400.00	60%	\$2,560.00
4	1	\$	9,600.00	60%	\$3,840.00
6	1	\$	11,500.00	60%	\$4,600.00
6	1	\$	25,000.00	60%	\$10,000.00
4	1	\$	6,700.00	60%	\$2,680.00
3	0	\$	4,400.00	60%	\$1,760.00
8	1	\$	26,000.00	60%	\$10,400.00
8	1	\$	23,000.00	60%	\$9,200.00
8	1	\$	16,000.00	60%	\$6,400.00
6	1	\$	9,500.00	60%	\$3,800.00
6	1	\$	17,500.00	60%	\$7,000.00
6	1	\$	20,500.00	60%	\$8,200.00
6	1	\$	13,000.00	60%	\$5,200.00
6	1	\$	14,000.00	60%	\$5,600.00
6	1	\$	15,000.00	60%	\$6,000.00
6	1	\$	12,000.00	60%	\$4,800.00
6	1	\$	21,000.00	60%	\$8,400.00
4	1	\$	9,500.00	60%	\$3,800.00
4	1	\$	8,500.00	60%	\$3,400.00
4	1	\$	15,000.00	60%	\$6,000.00
4	1	\$	9,700.00	60%	\$3,880.00
4	1	\$	12,000.00	60%	\$4,800.00
4	1	\$	6,100.00	60%	\$2,440.00
4	1	\$	13,000.00	60%	\$5,200.00
4	1	\$	11,000.00	60%	\$4,400.00
3	1	\$	3,540.00	60%	\$1,416.00
4	1	\$	12,000.00	60%	\$4,800.00
4	1	\$	10,500.00	60%	\$4,200.00
4	1	\$	11,000.00	60%	\$4,400.00
4	1	\$	8,950.00	60%	\$3,580.00

10	1	\$	37,000.00	60%	\$14,800.00
10	1	\$	38,670.00	60%	\$15,468.00
4	1	\$	12,280.52	60%	\$4,912.21
4	1	\$	13,000.00	60%	\$5,200.00
8	1	\$	23,000.00	60%	\$9,200.00
6	1	\$	22,000.00	60%	\$8,800.00
6	1	\$	18,000.00	60%	\$7,200.00
6	1	\$	14,500.00	60%	\$5,800.00
6	1	\$	13,500.00	60%	\$5,400.00
8	1	\$	30,000.00	60%	\$12,000.00
8	1	\$	16,500.00	60%	\$6,600.00
3	0	\$	3,500.00	60%	\$1,400.00
2	0	\$	2,250.00	60%	\$900.00
3		\$	3,422.00	60%	\$1,368.80
6		\$	6,876.00	60%	\$2,750.40
6		\$	7,340.00	60%	\$2,936.00
8		\$	21,067.95	60%	\$8,427.18
2	0	\$	1,500.00	60%	\$600.00
2	0	\$	2,300.00	60%	\$920.00
3	0	\$	2,300.00	60%	\$920.00
3	0	\$	3,100.00	60%	\$1,240.00
3		\$	3,422.00	60%	\$1,368.80
4	1	\$	11,000.00	60%	\$4,400.00
4	1	\$	15,000.00	60%	\$6,000.00
4	1	\$	5,800.00	60%	\$2,320.00
6	1	\$	8,700.00	60%	\$3,480.00
6	1	\$	7,790.00	60%	\$3,116.00
2	0	\$	2,300.00	60%	\$920.00
3		\$	3,422.00	60%	\$1,368.80
3		\$	3,422.00	60%	\$1,368.80
3	1	\$	3,717.00	60%	\$1,486.80
3	1	\$	3,717.00	60%	\$1,486.80
3	1	\$	2,220.00	60%	\$888.00
3		\$	3,764.00	60%	\$1,505.60
4	1	\$	6,100.00	60%	\$2,440.00
		\$	1,250.00	60%	\$500.00
		\$	1,750.00	60%	\$700.00
		\$	580.51	60%	\$232.20
		\$	1,000.00	60%	\$400.00
		\$	580.50	60%	\$232.20
		\$	1,000.00	60%	\$400.00
		\$	445.48	60%	\$178.19
		\$	760.48	60%	\$304.19
		\$	670.53	60%	\$268.21
		\$	850.50	60%	\$340.20
		\$	325.00	60%	\$130.00
		\$	445.48	60%	\$178.19
		\$	220.50	60%	\$88.20
		\$	2,228.59	60%	\$891.44
		\$	5,600.00	60%	\$2,240.00
3Hz		\$	5,600.00	60%	\$2,240.00
		\$	791.00	60%	\$316.40
		\$	293.00	60%	\$117.20
		\$	607.53	60%	\$243.01
		\$	879.97	60%	\$351.99
		\$	1,134.00	60%	\$453.60
		\$	1,484.98	60%	\$593.99
psi, Hi psi, 10 day purge, < 7800ft 6-12GH		\$	7,800.00	60%	\$3,120.00
		\$	8,500.00	60%	\$3,400.00
3Hz), Lo PSI, no purge.		\$	7,900.00	60%	\$3,160.00
		\$	41.00	60%	\$16.40
		\$	42.00	60%	\$16.80
		\$	809.55	60%	\$323.82
		\$	809.55	60%	\$323.82

		\$ 62.37	60%	\$24.95
		\$ 68.67	60%	\$27.47
		\$ 166.67	60%	\$66.67
		\$ 166.67	60%	\$66.67
		\$ 85.68	60%	\$34.27
		\$ 159.04	60%	\$63.62
		\$ 92.96	60%	\$37.18
		\$ 133.91	60%	\$53.56
		\$ 30.00	60%	\$12.00
		\$ 37.00	60%	\$14.80
		\$ 650.02	60%	\$260.01
		\$ 650.02	60%	\$260.01
		\$ 39.13	60%	\$15.65
		\$ 48.02	60%	\$19.21
		\$ 45.22	60%	\$18.09
		\$ 142.31	60%	\$56.92
		\$ 75.95	60%	\$30.38
		\$ 670.53	60%	\$268.21
		\$ 133.91	60%	\$53.56
		\$ 30.52	60%	\$12.21
		\$ 37.00	60%	\$14.80
		\$ 809.55	60%	\$323.82
		\$ 809.55	60%	\$323.82
		\$ 48.02	60%	\$19.21
		\$ 70.98	60%	\$28.39
		\$ 70.98	60%	\$28.39
		\$ 159.04	60%	\$63.62
hers, hex nuts and fillister head screws		\$ 25.34	60%	\$10.14
		\$ 133.91	60%	\$53.56
		\$ 24.00	60%	\$9.60
		\$ 28.00	60%	\$11.20
		\$ 47.88	60%	\$19.15
		\$ 38.78	60%	\$15.51
		\$ 35.91	60%	\$14.36
		\$ 142.31	60%	\$56.92
		\$ 232.89	60%	\$93.16
		\$ 106.05	60%	\$42.42
		\$ 749.98	60%	\$299.99
		\$ 205.03	60%	\$82.01
		\$ 117.53	60%	\$47.01
		\$ 224.98	60%	\$89.99
end only) (913412)		\$ 62.02	60%	\$24.81
		\$ 2,316.00	60%	\$926.40
		\$ 749.98	60%	\$299.99
		\$ 650.00	60%	\$260.00
		\$ 4,354.00	60%	\$1,741.60
		\$ 975.00	60%	\$390.00
		\$ 97.00	60%	\$38.80
		\$ 171.80	60%	\$68.72
		\$ 9.03	60%	\$3.61
		\$ 80.20	60%	\$32.08
		\$ 171.80	60%	\$68.72
		\$ 99.00	60%	\$39.60
		\$ 4,364.00	60%	\$1,745.60
		\$ 49.42	60%	\$19.77
		\$ 266.67	60%	\$106.67
		\$ 243.00	60%	\$97.20
		\$ 77.00	60%	\$30.80
		\$ 425.20	60%	\$170.08
		\$ 500.00	60%	\$200.00
		\$ 86.00	60%	\$34.40
		\$ 862.52	60%	\$345.01
		\$ 226.75	60%	\$90.70
		\$ 88.62	60%	\$35.45
		\$ 85.72	60%	\$34.29
90 gasket, and PDR100 gasket for PDR-100		\$ 101.22	60%	\$40.49
		\$ 93.03	60%	\$37.21
		\$ 760.48	60%	\$304.19
		\$ 715.47	60%	\$286.19
090M)		\$ 1,150.00	60%	\$460.00

		\$ 895.51	60%	\$358.20
		\$ 895.51	60%	\$358.20
as (1 per antenna) TF100-BV2-120M		\$ 1,210.02	60%	\$484.01
R220 flanges (1 per antenna) (TF220-BW1-		\$ 634.48	60%	\$253.79
		\$ 1,030.47	60%	\$412.19
		\$ 940.52	60%	\$376.21
		\$ 1,030.47	60%	\$412.19
ges (1 per antenna) (TF137-CC1-048I)		\$ 1,030.47	60%	\$412.19
		\$ 940.52	60%	\$376.21
		\$ 15,873.65	60%	\$6,349.46
		\$ 21,535.85	60%	\$8,614.34
		\$ 139.51	60%	\$55.80
crew part: (244106A-220)		\$ 116.90	60%	\$46.76
		\$ 209.23	60%	\$83.69
		\$ 895.51	60%	\$358.20
		\$ 805.49	60%	\$322.20
F R 220 PBR/UBR 18.0-26.5		\$ 494.97	60%	\$197.99
		\$ 715.47	60%	\$286.19
KIT		\$ 70.00	60%	\$28.00
		\$ 210.56	60%	\$84.22
ns) (TMS)		\$ 10.40	60%	\$4.16
		\$ 105.00	60%	\$42.00
		\$ 81.00	60%	\$32.40
		\$ 2,251.45	60%	\$900.58
		\$ 141.75	60%	\$56.70
		\$ 4,554.00	60%	\$1,821.60
		\$ 6,050.00	60%	\$2,420.00
LDMENT		\$ 7,634.00	60%	\$3,053.60
VELDMENT		\$ 9,526.00	60%	\$3,810.40
		\$ 686.40	60%	\$274.56
ï (leg mount))		\$ 6,468.00	60%	\$2,587.20
ï (leg mount))		\$ 7,920.00	60%	\$3,168.00
ï (leg mount))		\$ 9,455.60	60%	\$3,782.24
365 (leg mount))		\$ 11,290.40	60%	\$4,516.16
		\$ 1,219.00	60%	\$487.60
		\$ 875.00	60%	\$350.00
equired for 3' or smaller antennas		\$ 3,650.00	60%	\$1,460.00
		\$ 1,400.00	60%	\$560.00
		\$ 1,247.00	60%	\$498.80
REFERRED - 3 chains in kit, only 1 kit needed		\$ 2,538.88	60%	\$1,015.55
		\$ 2,979.90	60%	\$1,191.96
25		\$ 47.82	60%	\$19.13
		\$ 243.00	60%	\$97.20
		\$ 139.80	60%	\$55.92
		\$ 134.75	60%	\$53.90
-1/2â€³		\$ 1,333.20	60%	\$533.28
		\$ 655.60	60%	\$262.24
		\$ 9.40	60%	\$3.76
h clamp and clamp head (5 per package)		\$ 107.60	60%	\$43.04
		\$ 120.00	60%	\$48.00

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Nokia Microwave Engineering Services					
Part No	Group Item	Description	Metric	NASPO ValuePoint MSRP	NASPO ValuePoint Discount %
Path Survey (< 11 GHz)					
SVC-KWIE-ENG-TSE9		Path Survey (single hop system)	Single hop system	\$ 14,045.71	65.00%
SVC-KWIE-ENG-TSE10		Path Survey (1st hop for a connected multi-hop system)	1st hop for a connected multi-hop system	\$ 14,045.71	65.00%
SVC-KWIE-ENG-TSE11		Path Survey (2nd hop+ for a connected multi-hop system)	2nd hop+ for a connected multi-hop system	\$ 11,234.29	65.00%
SVC-KWIE-ENG-TSE12		Path Survey (Each single path in a multi-hop system, not connected)	Each single path in a multi-hop system	\$ 14,045.71	65.00%
SVC-KWIE-ENG-TSE13		Path Survey Air Fare (per survey)(1 Surveyor with equipment shipment)	Per man with equipment shipment	\$ 11,428.57	65.00%
SVC-KWIE-ENG-TSE8		Path Survey (Per Man Day)	Path Survey (Per Man Day)	\$ 5,105.71	65.00%
Path Design					
SVC-KWIE-ENG-TSE16		System Map (1-10 paths)	Each	\$ 285.71	65.00%
SVC-KWIE-ENG-TSE17		System Map (10+ paths)	Each	\$ 571.43	65.00%
SVC-KWIE-ENG-TSE18		Path Design (per path)	Per path	\$ 428.57	65.00%
SVC-KWIE-ENG-TSE19		Path Performance Calculations (per path)	Per path	\$ 428.57	65.00%
Frequency Selection/Coordination					
SVC-KWIE-ENG-TSE20		Frequency Selection (all bands except 80 GHz / per freq pair)	Per path	\$ 2,428.57	65.00%
SVC-KWIE-ENG-TSE22		Normal 30-day Prior Coordination (per system)	Per system	\$ 885.71	65.00%
SVC-KWIE-ENG-TSE23		Expedited Prior Coordination (1st path)	1st path	\$ 2,620.00	65.00%
SVC-KWIE-ENG-TSE24		Expedited Prior Coordination (2nd path)	2nd path+	\$ 542.86	65.00%
SVC-KWIE-ENG-TSE25		Major Change Analysis (per path)	Per path	\$ 1,551.43	65.00%
SVC-KWIE-ENG-TSE26		Minor Change Analysis (per path)	Per path	\$ 914.29	65.00%
SVC-KWIE-ENG-TSE27		Prior Coordination Renewal within 6 months of PCN date (1st path)	1st path	\$ 857.14	65.00%
SVC-KWIE-ENG-TSE28		Prior Coordination Renewal within 6 months of PCN 2nd path+ (per path)	2nd path+	\$ 214.29	65.00%
FCC License Application					
SVC-KWIE-ENG-TSE29		FCC License Application Prep (New/Mod) (per site / Form 601) (Note 1)	Per path (New/Mod) (per site / Form	\$ 1,328.57	65.00%
SVC-KWIE-ENG-TSE31		Waiver Preparation (Note 1)	Waiver Preparation (Note 1) Each	\$ 614.29	65.00%
SVC-KWIE-ENG-TSE43		FCC License Fees (Note 1.5)(new site)(per site)	Per New Site	\$ 3,628.57	65.00%
SVC-KWIE-ENG-TSE44		FCC License Fees (Note 1.5)(modification to existing license)(per site)	Per Site	\$ 1,228.57	65.00%
SVC-KWIE-ENG-TSE45		FCC Application - Waiver Application (Note 1.5)(per site)	Per Site	\$ 757.14	65.00%
SVC-KWIE-ENG-TSE37		80 GHz Nationwide Licensing (US applications only) (One Time Charge)	One Time Charge	\$ 1,225.71	65.00%
SVC-KWIE-ENG-TSE38		80 GHz Link Registration (US applications only)(Per Path)Each link registration after 1	Per Path	\$ 817.14	65.00%
		80 GHz Registration (US Applications only) (Per Path)			
SVC-KWIE-ENG-TSE54		(Not required if licensee is fee-exempt, e.g. governmental entities)	Per Path	\$ 1,828.57	65.00%
FCC Regulatory Services					
SVC-KWIE-ENG-TSE46		AM Broadcast Tower Proximity Check	Each	\$ 142.86	65.00%
SVC-KWIE-ENG-TSE47		FAA Non-Hazard FAA Determination filing	Each	\$ 1,714.29	65.00%
SVC-KWIE-ENG-TSE48		FCC ASR Filing	Each	\$ 857.14	65.00%
SVC-KWIE-ENG-TSE30		STA Form Preparation (Note 1.5)	Each	\$ 814.29	65.00%
SVC-KWIE-ENG-TSE49		FCC STA Filing Fees - Part 101 (Note 1.5) (private only)	Each	\$ 285.71	65.00%
SVC-KWIE-ENG-TSE50		FCC STA Filing Fees - Part 101 (Note 1.5) (Common Carrier i.e. Wireless)	Each	\$ 531.43	65.00%
SVC-KWIE-ENG-TSE51		FCC STA Filing Fees - Part 74	Each	\$ 714.29	65.00%
SVC-KWIE-ENG-TSE52		License Extension (per Call Sign)	per Call Sign	\$ 614.29	65.00%
SVC-KWIE-ENG-TSE53		FCC Filing Fee for License Extension Waiver (Private only)	Each	\$ 900.00	65.00%
Transmission Engineering					
SVC-KWIE-ENG-TSE32		Senior Transmission Systems Engineer (per Hour)	Per Man Hour	\$ 714.29	65.00%
SVC-KWIE-ENG-TSE33		Transmission Systems Engineer (per Hour)	Per Man Hour	\$ 571.43	65.00%
Network Engineering					
SVC-KWIE-ENG-TSE34		Senior Network Engineer (per hour)	Per Man Hour	\$ 714.29	65.00%
SVC-KWIE-ENG-TSE35		Network Engineer (per hour)	Per Man Hour	\$ 500.00	65.00%
SVC-KWIE-ENG-TSE36		Network Engineering Drawings (per hour)	Per Man Hour	\$ 285.71	65.00%
SVC-KWIE-ENG-NE1		Application and Network Engineer (per site)	Per Man Hour	\$ 2,285.71	65.00%
SVC-QHIE-INST-PO1		Application and configuration release (per site)	Per Man Hour	\$ 857.14	65.00%
3EM24226AF		Customer Witness Test & Integration Certificate (Per Test Element) Factory Integration / Staging Customer Witness Test	Per Test Element	\$ 1,428.57	65.00%
MW Product Freight					
SVC-YGRL-RF1		MW Product Freight per radio rack	Per unit	\$ 1,142.86	65.00%
SVC-YGRL-AS1		MW Product Freight per small antenna	Per unit	\$ 857.14	65.00%
SVC-YGRL-AS2		MW Product Freight per medium antenna	Per unit	\$ 1,428.57	65.00%
SVC-YGRL-AS3		MW Product Freight per large antenna (or HI and AK)	Per unit	\$ 2,285.71	65.00%
SVC-YGRL-AS4		MW Product Freight per Ice Shield	Per unit	\$ 1,000.00	65.00%
Field Engineering					
SVC-QHIE-ENG-FE1		Field Service Engineer (Per Man Hour) (Includes T&L)	Per Man Hour	\$ 514.29	65.00%
SVC-QHIE-ENG-FE2		Field Living Expenses (per man per calendar day) (Includes T&L)	Per calendar day - 1 Field Engineer	\$ 971.43	65.00%
SVC-QHIE-ENG-FE3		Air Fare (per man) (1 Engineer with equipment shipment) (Includes T&L)	Per man with equipment shipment	\$ 11,428.57	65.00%
Field Engineering - Outside Plant					
300054129-FEOSP1		Outside Plant Engineering e.g. Tower Structural Analysis, Grounding, etc. (Includes T&L)	Per Man Hour	\$ 514.29	65.00%
300054129-FEOSP2		Field Living Expenses (per man per calendar day) (Includes T&L)	Per calendar day - 1 Field Engineer	\$ 971.43	65.00%
300054129-FEOSP3		Air Fare (per man)(1 Engineer with equipment shipment) (Includes T&L)	Per man with equipment shipment	\$ 11,428.57	65.00%
Installation & Commission (Microwave)					
SVC-QHIE-INST-INCOM1		Microwave Antenna / Tower Installation Services (Per Man Hour) (Includes T&L)	Per Man Hour	\$ 1,074.29	65.00%
SVC-QHIE-INST-INCOM2		Radio Installation Services (Per Man Hour) (Includes T&L)	Per Man Hour	\$ 902.86	65.00%
SVC-QHIE-INST-INCOM3		Radio Commissioning and Test Services (Per Man Hour) (Includes T&L)	Per Man Hour	\$ 902.86	65.00%
SVC-QHIE-INST-INCOM4		Ancillary Equipment Installation and Test Services (Per Man Hour) (Includes T&L)	Per Man Hour	\$ 902.86	65.00%
SVC-QHIE-INST-INCOM5		Deployment Project Management (Per Man Hour) (Includes T&L)	Per Man Hour	\$ 514.29	65.00%
SVC-QHIE-INST-INCOM6		Field Supervisor (Per Man Hour) (Includes T&L)	Per Man Hour	\$ 525.71	65.00%
SVC-QHIE-INST-INCOM7		Network Management Engineering (Per Man Hour) (Includes T&L)	Per Man Hour	\$ 525.71	65.00%
SVC-QHIE-INST-INCOM8		Field Living Expenses (Per calendar day) (1 Field Engineer)(Includes T&L)	Per calendar day - 1 Field Engineer	\$ 971.43	65.00%
SVC-QHIE-INST-INCOM9		Air Fare (per man)(1 Engineer with equipment shipment) (Includes T&L)	Per man with equipment shipment	\$ 11,428.57	65.00%
SVC-QHIE-INST-INCOM10		Microwave Radio and Antenna Misc Installation Materials	Unit	\$ 28.57	65.00%
SVC-QHIE-INST-INCOM11		Microwave Radio and Antenna Material Warehousing	Cubic Meter Per Month	\$ 1,200.00	65.00%
Program Management Office (PMO)					
300702487		PMI certified project manager skilled in all aspects of managing network deployment projects.	Per Hour	\$ 491.43	65.00%
PS17267		PMI certified project manager skilled in all aspects of managing network deployment projects.	Per Hour	\$ 491.43	65.00%
Field Maintenance (Wavance)					
301094843-FM1		Radio Field Maintenance (Per Man Hour)	Per Man Hour	\$ 902.86	65.00%
301094843-FM2		Field Living Expenses (Per calendar day) (1 Technician)	Per calendar day - 1 Field Tech	\$ 971.43	65.00%
301094843-FM3		Air Fare (per man)(1 Technician with equipment shipment)	Per man with equipment shipment	\$ 11,428.57	65.00%

	Product Maintenance (Wavance)5				
301090767-Bronze		Technical Support Bronze (Must be bought with Advanced Exchange 5 Business days)	7x24x365 Annual rate per TR	\$ 480.00	65.00%
301090791-AE5		Advanced Exchange 5 Business days (Must be bought with Tech Support Bronze)	Annual rate after warranty per TR	\$ 720.00	65.00%
301090767-Gold		Technical Support Gold (Must be bought with Advanced Exchange Next Business day)	7x24x365 Annual rate per TR	\$ 551.43	65.00%
301090791-NBD		Advanced Exchange Next Business day (Must be bought with Tech Support Gold)	Annual rate after warranty per TR	\$ 828.57	65.00%
301090775		Standard Repair (60 Days)	Return for Repair 60 Days	\$ 905.71	65.00%
301090767-TSM		Technical Support TSM-8000	7x24x365 Annual rate per TSM	Custom Bid	0.00%

Notes:

- 1 Does not include FCC fees, if any
- 1.5 No fees for State and Local Government including education
- 2 Pricing does not apply to states with prevailing wages statutes and can be quoted upon request
- 3 SVC-KWIE-ENG, SVC-YGRL requires the description to be included with all orders
- 4 A Man Day is considered to be 8 hours.
- 5 Both Technical Support and Advanced Exchange must be bought together.

End of Nokia Microwave Engineering Services

NASPO ValuePoint Unit Price	
\$	4,916.00
\$	4,916.00
\$	3,932.00
\$	4,916.00
\$	4,000.00
\$	1,787.00
\$	100.00
\$	200.00
\$	150.00
\$	150.00
\$	850.00
\$	310.00
\$	917.00
\$	190.00
\$	543.00
\$	320.00
\$	300.00
\$	75.00
\$	465.00
\$	215.00
\$	1,270.00
\$	430.00
\$	265.00
\$	429.00
\$	286.00
\$	640.00
\$	50.00
\$	600.00
\$	300.00
\$	285.00
\$	100.00
\$	186.00
\$	250.00
\$	215.00
\$	315.00
\$	250.00
\$	200.00
\$	250.00
\$	175.00
\$	100.00
\$	800.00
\$	300.00
\$	500.00
\$	400.00
\$	300.00
\$	500.00
\$	800.00
\$	350.00
\$	180.00
\$	340.00
\$	4,000.00
\$	180.00
\$	340.00
\$	4,000.00
\$	376.00
\$	316.00
\$	316.00
\$	316.00
\$	180.00
\$	184.00
\$	184.00
\$	340.00
\$	4,000.00
\$	10.00
\$	420.00
\$	172.00
\$	172.00
\$	316.00
\$	340.00
\$	4,000.00

\$ 168.00
\$ 252.00
\$ 193.00
\$ 290.00
\$ 317.00
Custom Bid





Rider C Section C5 - Antenna Systems

Wavence COMMSCOPE DIRECT MOUNT ANTENNA SYSTEMS					
Part No	CommScope P/N	Frequency Band	Description	Size (ft)	# Struts
3CC57111AA	Commscope VHLP2-8015-AUBT	15/80	Ant UBT dual band 2ft 15/80 DP/SP A.	2	0
3CC57112AA	Commscope VHLP2-8018-AUBT	18/80	Ant UBT dual band 2ft 18/80 DP/SP A.	2	0
3CC57113AA	Commscope VHLP2-8023-AUBT	23/80	Ant UBT dual band 2ft 23/80 DP/SP A.	2	0
3CC57012AA	Commscope VHLP3-6W-AUBTR	5.925 – 7.125	Ant UBT Int 3ft 6 GHz SP A.	3	0
3CC57020AA	Commscope VHLP3-6W-AUBTC	5.925 – 7.125	Ant UBT Int 3ft 6 GHz DP A.	3	0
3CC57088AA	Commscope VHLPX3-6W-AUBT	5.925 – 7.125	Ant UBT Int 3ft DP 6 GHz (with OMT) A.	3	1
3CC57233AA	Commscope SHP3-6W-BUBTRC	5.925 – 7.125	Ant int UBT 3ft class4 6GHz SP/DP A.	3	1
3CC57029AA	VHLP4-6W-AUBTR	5.925-7.125	Ant UBT Int 4ft 6 GHz SP A.	4	0
3CC57037AA	VHLP4-6W-AUBTC	5.925-7.125	Ant UBT Int 4ft 6 GHz DP A.	4	0
3CC57096AA	VHLPX4-6W-AUBTR	5.925-7.125	Ant UBT Int 4ft 6 GHz (with OMT) A.	4	0
3CC57051AA	VHLP6-6W-AUBTR	5.925-7.125	Ant UBT Int 6ft 6 GHz SP A.	6	1
3CC57058AA	VHLP6-6W-AUBTC	5.925-7.125	Ant UBT Int 6ft 6 GHz DP A.	6	1
3CC57104AA	VHLPX6-6W-AUBTR	5.925-7.125	Ant UBT Int 6ft 6 GHz (with OMT) A.	6	1
3CC56990AA	VHLP2-11W-AUBTR	10.7-11.7	Ant UBT Int 2ft 10/11 GHz SP A.	2	0
3CC57002AA	VHLP2-11W-AUBTC	10.7-11.7	Ant UBT Int 2ft 10/11 GHz DP A.	2	0
3CC57259AA	Commscope VHLP2-11W-BUBTR	10.7-11.7	Ant UBT Int 2ft 11 GHz SP A.	2	0
3CC57271AA	Commscope VHLP2-11W-BUBTC	10.7-11.7	Ant UBT Int 2ft 11 GHz DP A.	2	0
3CC57284AA	Commscope VHLPX2-11W-BUBTR	10.7-11.7	Ant UBT Int 2ft 11 GHz (with OMT) A.	2	0
3CC57077AA	VHLPX2-11W-AUBTR	10.7-11.7	Ant UBT Int 2ft DP 10/11 GHz (w/ OMT) A.	2	0
3CC57014AA	VHLP3-11W-AUBTR	10.7-11.7	Ant UBT Int 3ft 10/11 GHz SP A.	3	0
3CC57022AA	VHLP3-11W-AUBTC	10.7-11.7	Ant UBT Int 3ft 10/11 GHz DP A.	3	0
3CC57090AA	VHLPX3-11W-AUBTR	10.7-11.7	Ant UBT Int 3ft DP 10/11 GHz (w/ OMT) A.	3	0
3CC57234AA	Commscope SHP3-11W-BUBTRC	10.7-11.7	Ant int UBT 3ft class4 11GHz SP/DP A.	3	0
3CC57031AA	VHLP4-11W-AUBTR	10.7-11.7	Ant UBT Int 4ft 10/11 GHz SP A.	4	0
3CC57039AA	VHLP4-11W-AUBTC	10.7-11.7	Ant UBT Int 4ft 10/11 GHz DP A.	4	0
3CC57098AA	VHLPX4-11W-AUBTR	10.7-11.7	Ant UBT Int 4ft 10/11 GHz (with OMT) A.	4	0
3CC57053AA	Commscope VHLP6-11W-AUBTR	10.7-11.7	Ant UBT Int 6ft 10/11 GHz SP A.	6	0
3CC57060AA	Commscope VHLP6-11W-AUBTC	10.7-11.7	Ant UBT Int 6ft 10/11 GHz DP A.	6	0
3CC57106AA	Commscope VHLPX6-11W-AUBTR	10.7-11.7	Ant UBT Int 6ft 10/11 GHz (with OMT) A.	6	0
3CC56969AA	Commscope VHLP1-13-AUBTR	12.700 –13.250	Ant UBT Int 1ft 13 GHz SP A.	1	0
3CC56980AA	Commscope VHLP1-13-AUBTC	12.700 –13.250	Ant UBT Int 1ft 13 GHz DP A.	1	0
3CC57065AA	Commscope VHLPX1-13-AUBTR	12.700 –13.250	Ant UBT Int 1ft DP 13 GHz (with OMT) A.	1	0
3CC56991AA	Commscope VHLP2-13-AUBTR	12.700 –13.250	Ant UBT Int 2ft 13 GHz SP A.	2	0
3CC57003AA	Commscope VHLP2-13-AUBTC	12.700 –13.250	Ant UBT Int 2ft 13 GHz DP A.	2	0
3CC57078AA	Commscope VHLPX2-13-AUBTR	12.700 –13.250	Ant UBT Int 2ft DP 13 GHz (with OMT) A.	2	0
3CC57260AA	Commscope VHLP2-13-BUBTR	12.700 –13.250	Ant UBT Int 2ft 13 GHz SP A.	2	0
3CC57272AA	Commscope VHLP2-13-BUBTC	12.700 –13.250	Ant UBT Int 2ft 13 GHz DP A.	2	0
3CC57285AA	Commscope VHLPX2-13-BUBTR	12.700 –13.250	Ant UBT Int 2ft 13 GHz (with OMT) A.	2	0
3CC57015AA	Commscope VHLP3-13-AUBTR	12.700 –13.250	Ant UBT Int 3ft 13 GHz SP A.	3	0

3CC57024AA	Commscope VHLP3-13-AUBTC	12.700 –13.250	Ant UBT Int 3ft 13 GHz DP A.	3	
3CC57091AA	Commscope VHLPX3-13-AUBTR	12.700 –13.250	Ant UBT Int 3ft DP 13 GHz (with OMT) A.	3	
3CC57235AA	Commscope SHP3-13-BUBTRC	12.700 –13.250	Ant int UBT 3ft class4 13GHz SP/DP A.	3	
3CC57032AA	Commscope VHLP4-13-AUBTR	12.700 –13.250	Ant UBT Int 4ft 13 GHz SP A.	4	
3CC57040AA	Commscope VHLP4-13-AUBTC	12.700 –13.250	Ant UBT Int 4ft 13 GHz DP A.	4	
3CC57099AA	Commscope VHLPX4-13-AUBTR	12.700 –13.250	Ant UBT Int 4ft DP 13 GHz (with OMT) A.	4	
3CC57054AA	Commscope VHLP6-13-AUBTR	12.700 –13.250	Ant UBT Int 6ft 13 GHz SP A.	6	
3CC57061AA	Commscope VHLP6-13-AUBTC	12.700 –13.250	Ant UBT Int 6ft 13 GHz DP A.	6	
3CC57107AA	Commscope VHLPX6-13-AUBTR	12.700 –13.250	Ant UBT Int 6ft DP 13 GHz (with OMT) A.	6	
3CC56970AA	Commscope VHLP1-15-AUBTR	14.400 – 15.350	Ant UBT Int 1ft 15 GHz SP A.	1	0
3CC56981AA	Commscope VHLP1-15-AUBTC	14.400 – 15.350	Ant UBT Int 1ft 15 GHz DP A.	1	0
3CC57066AA	Commscope VHLPX1-15-AUBTR	14.400 – 15.350	Ant UBT Int 1ft DP 15 GHz (with OMT) A.	1	
3CC56992AA	Commscope VHLP2-15-AUBTR	14.400 – 15.350	Ant UBT Int 2ft 15 GHz SP A.	2	0
3CC57004AA	Commscope VHLP2-15-AUBTC	14.400 – 15.350	Ant UBT Int 2ft 15 GHz DP A.	2	0
3CC57079AA	Commscope VHLPX2-15-AUBTR	14.400 – 15.350	Ant UBT Int 2ft DP 15 GHz (with OMT) A.	2	
3CC57261AA	Commscope VHLP2-15-BUBTR	14.400 – 15.350	Ant UBT Int 2ft 15 GHz SP A.	2	
3CC57273AA	Commscope VHLP2-15-BUBTC	14.400 – 15.350	Ant UBT Int 2ft 15 GHz DP A.	2	
3CC57286AA	Commscope VHLPX2-15-BUBTR	14.400 – 15.350	Ant UBT Int 2ft 15 GHz (with OMT) A.	2	
3CC57016AA	Commscope VHLP3-15-AUBTR	14.400 – 15.350	Ant UBT Int 3ft 15 GHz SP A.	3	0
3CC57025AA	Commscope VHLP3-15-AUBTC	14.400 – 15.350	Ant UBT Int 3ft 15 GHz DP A.	3	0
3CC57092AA	Commscope VHLPX3-15-AUBTR	14.400 – 15.350	Ant UBT Int 3ft DP 15 GHz (with OMT) A.	3	
3CC57236AA	Commscope SHP3-15-BUBTRC	14.400 – 15.350	Ant int UBT 3ft class4 15GHz SP/DP A.	3	
3CC57033AA	Commscope VHLP4-15-AUBTR	14.400 – 15.350	Ant UBT Int 4ft 15 GHz SP A.	4	
3CC57041AA	Commscope VHLP4-15-AUBTC	14.400 – 15.350	Ant UBT Int 4ft 15 GHz DP A.	4	
3CC57100AA	Commscope VHLPX4-15-AUBTR	14.400 – 15.350	Ant UBT Int 4ft DP 15 GHz (with OMT) A.	4	
3CC57055AA	Commscope VHLP6-15-AUBTR	14.400 – 15.350	Ant UBT Int 6ft 15 GHz SP A.	6	
3CC57062AA	Commscope VHLP6-15-AUBTC	14.400 – 15.350	Ant UBT Int 6ft 15 GHz DP A.	6	
3CC57108AA	Commscope VHLPX6-15-AUBTR	14.400 – 15.350	Ant UBT Int 6ft DP 15 GHz (with OMT) A.	6	
3CC56971AA	VHLP1-18-AUBTR	17.7-19.7	Ant UBT Int 1ft 18 GHz SP A.	1	0
3CC56982AA	VHLP1-18-AUBTC	17.7-19.7	Ant UBT Int 1ft 18 GHz DP A.	1	0
3CC57067AA	VHLPX1-18-AUBTR	17.7-19.7	Ant UBT Int 1ft DP 18 GHz (with OMT) A.	1	0
1AF30158AAAA	VHLPX1-18-2WH/E	17.7-19.7	Microwave Antenna,18GHz,1FT,VHLPX1-18-2W	1	0
3CC56993AA	VHLP2-18-AUBTR	17.7-19.7	Ant UBT Int 2ft 18 GHz SP A.	2	0
3CC57005AA	VHLP2-18-AUBTC	17.7-19.7	Ant UBT Int 2ft 18 GHz DP A.	2	0
3CC57080AA	VHLPX2-18-AUBTR	17.7-19.7	Ant UBT Int 2ft DP 18 GHz (with OMT) A.	2	0
3CC57262AA	Commscope VHLP2-18-BUBTR	17.7-19.7	Ant UBT Int 2ft 18 GHz SP A.	2	
3CC57274AA	Commscope VHLP2-18-BUBTC	17.7-19.7	Ant UBT Int 2ft 18 GHz DP A.	2	
3CC57287AA	Commscope VHLPX2-18-BUBTR	17.7-19.7	Ant UBT Int 2ft 18 GHz (with OMT) A.	2	
3CC57017AA	Commscope VHLP3-18-AUBTR	17.7-19.7	Ant UBT Int 3ft 18 GHz SP A.	3	0
3CC57026AA	Commscope VHLP3-18-AUBTC	17.7-19.7	Ant UBT Int 3ft 18 GHz DP A.	3	0
3CC57237AA	Commscope SHP3-18-BUBTRC	17.7-19.7	Ant int UBT 3ft class4 18GHz SP/DP A.	3	
3CC57034AA	Commscope VHLP4-18-AUBTR	17.7-19.7	Ant UBT Int 4ft 18 GHz SP A.	4	
3CC57042AA	Commscope VHLP4-18-AUBTC	17.7-19.7	Ant UBT Int 4ft 18 GHz DP A.	4	
3CC57056AA	Commscope VHLP6-18-AUBTR	17.7-19.7	Ant UBT Int 6ft 18 GHz SP A.	6	
3CC57063AA	Commscope VHLP6-18-AUBTC	17.7-19.7	Ant UBT Int 6ft 18 GHz DP A.	6	

3CC57093AA	Commscope VHLPX3-18-AUBTR	17.7-19.7	Ant UBT Int 3ft DP 18 GHz (with OMT) A.	3	
3CC57101AA	Commscope VHLPX4-18-AUBTR	17.7-19.7	Ant UBT Int 4ft DP 18 GHz (with OMT) A.	4	
3CC57109AA	Commscope VHLPX6-18-AUBTR	17.7-19.7	Ant UBT Int 6ft DP 18 GHz (with OMT) A.	6	
3CC56972AA	VHLP1-23-AUBTR	21.2-23.6	Ant UBT Int 1ft 23 GHz SP A.	1	0
3CC56983AA	VHLP1-23-AUBTC	21.2-23.6	Ant UBT Int 1ft 23 GHz DP A.	1	0
3CC57068AA	VHLPX1-23-AUBTR	21.2-23.6	Ant UBT Int 1ft DP 23 GHz (with OMT) A.	1	0
3CC56994AA	VHLP2-23-AUBTR	21.2-23.6	Ant UBT Int 2ft 23 GHz SP A.	2	0
3CC57006AA	VHLP2-23-AUBTC	21.2-23.6	Ant UBT Int 2ft 23 GHz DP A.	2	0
3CC57081AA	VHLPX2-23-AUBTR	21.2-23.6	Ant UBT Int 2ft DP 23 GHz (with OMT) A.	2	0
3CC57263AA	Commscope VHLP2-23-BUBTR	21.2-23.6	Commscope VHLP2-23-BUBTR	2	
3CC57275AA	Commscope VHLP2-23-BUBTC	21.2-23.6	Commscope VHLP2-23-BUBTC	2	
3CC57288AA	Commscope VHLPX2-23-BUBTR	21.2-23.6	Commscope VHLPX2-23-BUBTR	2	
3CC57018AA	Commscope VHLP3-23-AUBTR	21.2-23.6	Commscope VHLP3-23-AUBTR	3	0
3CC57027AA	Commscope VHLP3-23-AUBTC	21.2-23.6	Commscope VHLP3-23-AUBTC	3	0
3CC57035AA	Commscope VHLP4-23-AUBTR	21.2-23.6	Commscope VHLP4-23-AUBTR	4	
3CC57043AA	Commscope VHLP4-23-AUBTC	21.2-23.6	Commscope VHLP4-23-AUBTC	4	
3CC57057AA	Commscope VHLP6-23-AUBTR	21.2-23.6	Commscope VHLP6-23-AUBTR	6	
3CC57064AA	Commscope VHLP6-23-AUBTC	21.2-23.6	Commscope VHLP6-23-AUBTC	6	
3CC57094AA	Commscope VHLPX3-23-AUBTR	21.2-23.6	Commscope VHLPX3-23-AUBTR	3	
3CC57102AA	Commscope VHLPX4-23-AUBTR	21.2-23.6	Commscope VHLPX4-23-AUBTR	4	
3CC57110AA	Commscope VHLPX6-23-AUBTR	21.2-23.6	Commscope VHLPX6-23-AUBTR	6	
3CC57238AA	Commscope SHP3-23-BUBTRC	21.2-23.6	Commscope SHP3-23-BUBTRC	3	
3CC56973AA	Commscope VHLP1-26-AUBTR	24.250 – 26.500	Commscope VHLP1-26-AUBTR	1	
3CC57069AA	Commscope VHLPX1-26-AUBTR	24.250 – 26.500	Commscope VHLPX1-26-AUBTR	1	
3CC56984AA	Commscope VHLP2-26-AUBTC	24.250 – 26.500	Commscope VHLP2-26-AUBTC	1	
3CC56995AA	Commscope VHLP2-26-AUBTR	24.250 – 26.500	Commscope VHLP2-26-AUBTR	2	
3CC57007AA	Commscope VHLP2-26-AUBTC	24.250 – 26.500	Commscope VHLP2-26-AUBTC	2	
3CC57082AA	Commscope VHLPX2-26-AUBTR	24.250 – 26.500	Commscope VHLPX2-26-AUBTR	2	
3CC57264AA	Commscope VHLP2-26-BUBTR	24.250 – 26.500	Commscope VHLP2-26-BUBTR	2	
3CC57276AA	Commscope VHLP2-26-BUBTC	24.250 – 26.500	Commscope VHLP2-26-BUBTC	2	
3CC57289AA	Commscope VHLPX2-26-BUBTR	24.250 – 26.500	Commscope VHLPX2-26-BUBTR	2	
3CC57019AA	Commscope VHLP3-26-AUBTR	24.250 – 26.500	Commscope VHLP3-26-AUBTR	3	
3CC57028AA	Commscope VHLP3-26-AUBTC	24.250 – 26.500	Commscope VHLP3-26-AUBTC	3	
3CC57095AA	Commscope VHLPX3-26-AUBTR	24.250 – 26.500	Commscope VHLPX3-26-AUBTR	3	
3CC57239AA	Commscope SHP3-26-BUBTRC	24.250 – 26.500	Commscope SHP3-26-BUBTRC	3	
3CC57036AA	Commscope VHLP4-26-AUBTR	24.250 – 26.500	Commscope VHLP4-26-AUBTR	4	
3CC57044AA	Commscope VHLP4-26-AUBTC	24.250 – 26.500	Commscope VHLP4-26-AUBTC	4	
3CC57103AA	Commscope VHLPX4-26-AUBTR	24.250 – 26.500	Commscope VHLPX4-26-AUBTR	4	
3CC56974AA	Commscope VHLP1-28-AUBTR	27.500 – 29.500	Ant UBT Int 1ft 28 GHz SP A.	1	
3CC56985AA	Commscope VHLP1-28-AUBTC	27.500 – 29.500	Ant UBT Int 1ft 28 GHz DP A.	1	
3CC56996AA	Commscope VHLP2-28-AUBTR	27.500 – 29.500	Ant UBT Int 2ft 28 GHz SP A.	2	
3CC57008AA	Commscope VHLP2-28-AUBTC	27.500 – 29.500	Ant UBT Int 2ft 28 GHz DP A.	2	
3CC57070AA	Commscope VHLPX1-28-AUBTR	27.500 – 29.500	Ant UBT Int 1ft DP 28 GHz (with OMT) A.	1	
3CC57083AA	Commscope VHLPX2-28-AUBTR	27.500 – 29.500	Ant UBT Int 2ft DP 28 GHz (with OMT) A.	2	
3CC57265AA	Commscope VHLP2-28-BUBTR	27.500 – 29.500	Ant UBT Int 2ft 28 GHz SP A.	2	

3CC57277AA	Commscope VHLP2-28-BUBTC	27.500 – 29.500	Ant UBT Int 2ft 28 GHz DP A.	2	
3CC57290AA	Commscope VHLPX2-28-BUBTR	27.500 – 29.500	Ant UBT Int 2ft 28 GHz (with OMT) A.	2	
3CC56975AA	Commscope VHLP1-32-AUBTR	31.000 – 33.400	Ant UBT Int 1ft 32 GHz SP A.	1	
3CC56986AA	Commscope VHLP1-32-AUBTC	31.000 – 33.400	Ant UBT Int 1ft 32 GHz DP A.	1	
3CC56997AA	Commscope VHLP2-32-AUBTR	31.000 – 33.400	Ant UBT Int 2ft 32 GHz SP A.	2	
3CC57009AA	Commscope VHLP2-32-AUBTC	31.000 – 33.400	Ant UBT Int 2ft 32 GHz DP A.	2	
3CC57071AA	Commscope VHLPX1-32-AUBTR	31.000 – 33.400	Ant UBT Int 1ft DP 32 GHz (with OMT) A.	1	
3CC57084AA	Commscope VHLPX2-32-AUBTR	31.000 – 33.400	Ant UBT Int 2ft DP 32 GHz (with OMT) A.	2	
3CC57266AA	Commscope VHLP2-32-BUBTR	31.000 – 33.400	Ant UBT Int 2ft 32 GHz SP A.	2	
3CC57278AA	Commscope VHLP2-32-BUBTC	31.000 – 33.400	Ant UBT Int 2ft 32 GHz DP A.	2	
3CC57291AA	Commscope VHLPX2-32-BUBTR	31.000 – 33.400	Ant UBT Int 2ft 32 GHz (with OMT) A.	2	
3CC56979AA	Commscope VHLP1-38-AUBTR	37.000 – 40.000	Ant UBT Int 1ft 38 GHz SP A.	1	
3CC56987AA	Commscope VHLP1-38-AUBTC	37.000 – 40.000	Ant UBT Int 1ft 38 GHz DP A.	1	
3CC56998AA	Commscope VHLP2-38-AUBTR	37.000 – 40.000	Ant UBT Int 2ft 38 GHz SP A.	2	
3CC57010AA	Commscope VHLP2-38-AUBTC	37.000 – 40.000	Ant UBT Int 2ft 38 GHz DP A.	2	
3CC57072AA	Commscope VHLPX1-38-AUBTR	37.000 – 40.000	Ant UBT Int 1ft DP 38 GHz (with OMT) A.	1	
3CC57085AA	Commscope VHLPX2-38-AUBTR	37.000 – 40.000	Ant UBT Int 2ft DP 38 GHz (with OMT) A.	2	
3CC57267AA	Commscope VHLP2-38-BUBTR	37.000 – 40.000	Ant UBT Int 2ft 38 GHz SP A.	2	
3CC57279AA	Commscope VHLP2-38-BUBTC	37.000 – 40.000	Ant UBT Int 2ft 38 GHz DP A.	2	
3CC57292AA	Commscope VHLPX2-38-BUBTR	37.000 – 40.000	Ant UBT Int 2ft 38 GHz (with OMT) A.	2	
3CC56977AA	Commscope VHLP1-42-AUBTR	40.500 – 43.500	Ant UBT Int 1ft 42 GHz SP A.	1	
3CC56988AA	Commscope VHLP1-42-AUBTC	40.500 – 43.500	Ant UBT Int 1ft 42 GHz DP A.	1	
3CC56999AA	Commscope VHLP2-42-AUBTR	40.500 – 43.500	Ant UBT Int 2ft 42 GHz SP A.	2	
3CC57011AA	Commscope VHLP2-42-AUBTC	40.500 – 43.500	Ant UBT Int 2ft 42 GHz DP A.	2	
3CC57073AA	Commscope VHLPX1-42-AUBTR	40.500 – 43.500	Ant UBT Int 1ft DP 42 GHz (with OMT) A.	1	
3CC57086AA	Commscope VHLPX2-42-AUBTR	40.500 – 43.500	Ant UBT Int 2ft DP 42GHz (with OMT) A.	2	
3CC57268AA	Commscope VHLP2-42-BUBTR	40.500 – 43.500	Ant UBT Int 2ft 42 GHz SP A.	2	
3CC57280AA	Commscope VHLP2-42-BUBTC	40.500 – 43.500	Ant UBT Int 2ft 42 GHz DP A.	2	
3CC57293AA	Commscope VHLPX2-42-BUBTR	40.500 – 43.500	Ant UBT Int 2ft 42 GHz (with OMT) A.	2	
3CC56978AA	Commscope VHLP1-80-AUBTR	71.000 – 86.000	Ant UBT Int 1ft 80 GHz SP A.	1	0
3CC56979AA	Commscope VHLP1-80A-AUBTR	71.000 – 86.000	Ant UBT Int 1ft 80 GHz SP FCC A.	1	0
3CC57000AA	VHLP2-80-AUBTR	71.000 – 86.000	Ant UBT Int 2ft 80 GHz SP A.	2	0
3CC57074AA	VHLPX1-80-AUBTR	71.000 – 86.000	Ant UBT Int 1ft DP 80 GHz (+ OMT) A.	1	0
3CC57075AA	VHLPX1-80A-AUBTR	71.000 – 86.000	Ant UBT Int 1ft DP 80 GHz (+ OMT) FCC A.	1	0
3CC57087AA	VHLPX2-80-AUBTR	71.000 – 86.000	Ant UBT Int 2ft DP 80 GHz (with OMT) A.	2	0
3CC57269AA	Commscope VHLP2-80-BUBTR	71.000 – 86.000	Ant UBT Int 2ft 80 GHz SP A.	2	0
3CC57294AA	Commscope VHLPX2-80-BUBTR	71.000 – 86.000	Ant UBT Int 2ft 80 GHz (with OMT) A.	2	0

**Wavence
COMMSCOPE NON-INTEGRATED ANTENNA SYSTEMS**

Part No	CommScope P/N	Frequency Band	Description	Size (ft)	# Struts
1AF32561AAAA	SHP3-6W-6WH/A	5.925-7.125	Microwave Ant. 6GHz 3ft SHP3-6W-6WH/A	3	0
1AF21072AAAA	VHLP4-6W-6WH/B	5.925-7.125	ANT VHLP4-6W-6WH/C 4FT 5.9-7.1 CPRI37G	4	0
1AF21838AAAA	VHLPX4-6W-6WH/A	5.925-7.125	VHLPX4-6W-6WH - 4' Hi Perf. Dual Pol A	4	0
1AF31728ABAA	HX6-6W-6GR	5.925-7.125	Microwave Antenna, 6GHz, HX6-6W-6GR	6	1
1AF20097AAAA	VHLPX6-6W-6WH/A	5.925-7.125	ANT*HP_Ant_6GHz*1.8m*Dual_1.8d	6	1

IAF20657AAAA	VHLP6-6W-6WH/A	5.925-7.125	VHLP6-6W-6WH/B ANTEN 1.8M Pol-sing.	6	1
IAF31775AAAA	USX6-6W-6GR	5.925-7.125	Microwave Antenna, 6GHz, USX6-6W-6GR	6	1
IAF31727ABAA	HX8-6W-6GR	5.925-7.125	Microwave Antenna, 6GHz, 8Ft, HX8-6W-6GR	8	1
IAF31900AAAA	USX8-6W-6GR	5.925-7.125	Microwave Antenna, 6GHz, 8Ft, USX8-6W-6GR	8	1
IAK18988AAAA	USX10-6W-6GR	5.925-7.125	Microwave Antenna, 6GHz, USX10-6W-6GR	10	2
IAF32586AAAA	USX12-6W-6GR	5.925-7.125	Microwave Ant, 6GHz, 12FT, USX12-6W-6GR	12	2
IAF32560AAAA	VHLP2-11W-6WH/A	10.7-11.7	Microwave Ant, 11GHz 2ft VHLP2-11W-6WH/A	2	0
IAF33381AAAA	VHLPX2-11W-6WH/B	10.7-11.7	MW Ant, 11GHz, 2ft, DP (VHLPX2-11W-6WH/B)	2	0
IAF33382AAAA	VHLP2-11W-6WH/B	10.7-11.7	MW Ant, 11GHz, 2ft, SP (VHLP2-11W-6WH/B)	2	0
IAF20518AAAA	VHLPX3-11W-6WH	10.7-11.7	Ant HP 3ft DP 10.125-11.7GHz CPR90G	3	0
IAF20754YAA	VHLP3-11W-6WH	10.7-11.7	VHLP3-11W-6WH/A-3' HP, SP, Radome NO strut	3	0
IAF23936AAAA	VHLP4-11W-6WH	10.7-11.7	ANTENNA 4FT HP SP 11GHz VHLP4-11W-6WH/A	4	0
IAF24251AAAA	VHLPX4-11W-6WH	10.7-11.7	ANTENNA 4FT HP DP 11GHz VHLPX4-11W-6WH	4	0
IAF10741ABAA	VHLP6-11W-6WH/A	10.7-11.7	ValuLine Antenna 6ft, VHLP6-11W-6WH/A	6	1
IAF31901AAAA	HX8-11W-6GR	10.7-11.7	Microwave Antenna, 11GHz, 8Ft, HX8-11W-6GR	8	1
IAF31774AAAA	USX6-11W-6GR	10.7-11.7	Microwave Antenna, 11GHz, USX6-11W-6GR	6	1
IAF31902AAAA	USX8-11W-6GR	10.7-11.7	Microwave Antenna, 11GHz, 8Ft, USX8-11W-6GR	8	1
IAF33036AAAA	SHPX4-11W-6WH	10.7-11.7	Microwave Ant, 11GHz, 6ft	6	

**Wavence
COMMSCOPE Radomes and Sway Kits**

Part No	CommScope P/N	Description		
IAF32120AAAA	CommScope HIGHWIND-6-KIT	ANT ACC Highwind Kit for HX6/USX6 ant		
IAF32121AAAA	CommScope HIGHWIND-8-KIT	ANT ACC Highwind Kit for HX8/USX8		
IAF32122AAAA		Optional Strut Kit - USX8/HX8 & USX10 7819854		
IAF32465AAAA	CommScope 7694873-6	6 Ft MW Radome w/o Flash Commscope		
IAF33026AAAA	CommScope 7839972	Strut, INBOARD Kit - USX8/HX8		

**Wavence
COMMSCOPE Dehydrator and Manifolds**

Part No	CommScope P/N	Description		
IAE24848ABAA		Dehydrator MT050C, 115/230 Vac, 50/60 Hz		
408668911	6600D-2	2-Port Manifold, 0-15 PSI		
409072873	6600D-6□	6-POR T MANIFOLD, 0-15 PSISIX OUTLET GAS MANIFOLD		
409085255	6600D-4	4-Port Manifold, 0-15 PSI		
409085271	AE01D-D1658-100	Dehydrator Wall Shelf, MT050/MTXT300		
409113388		Automatic Dehydrator (MT500B-81315), 0.5 CFM, Full Alarm, 6 GHz: Min 900ft w/g, Max 10,000ft w/g, 11 GHz: Min 3000ft w/g, Max 33,000ft w		

**Wavence
COMMSCOPE Waveguide, Connectors and Associated Parts**

Part No	CommScope P/N	Description		
IAF10777AAAA	CommScope EW220	ELLIPTICAL WAVEGUIDE,-EW220 HELIAX, 21.2		
IAF14580AAAA		Premium Elliptical Waveguide, EWP52-59 (5.925 à€ 6.425 GHz)		
IAF14595AAAA	CommScope EWP64-71	WAVEGUIDE EWP64-71 per mtr		
IAF33081AAAA	CommScope EWP90-107-10F230	WG 11GHz,one conn,230ft EWP90-107-10F230		
IAF33082AAAA	CommScope EWP90-107-10F430	WG 11GHz,one conn,430ft EWP90-107-10F430		
IAF33082AAAA	CommScope EWP90-107-10F430	WG 11GHz,one conn,430ft EWP90-107-10F430		
IAF33083AAAA	CommScope EWP90-107-10F260	WG 11GHz,one conn,260ft EWP90-107-10F260		

1AF33084AAAA	CommScope EWP90-107-10F320		WG 11GHz,one conn.320ft EWP90-107-10F320		
1AF33084AAAA	CommScope EWP90-107-10F320		WG 11GHz,one conn.320ft EWP90-107-10F320		
1AF33085AAAA	CommScope EWP90-107-10F500		WG 11GHz,one conn.500ft EWP90-107-10F500		
1AF33087AAAA	CommScope EWP90-107-10F180		WG 11GHz,one conn.180ft EWP90-107-10F180		
409073251			4" Boot (WGB4-63) - for EW63		
409097649	CommScope EWP90-107		WAVGD-EWP90-107 PREM		
1AD127790001			Hanger Kit for EW180/EW220/EW240 (43211A) (10 pack)		
1AF16733AAAA			Uwave accessory*FLEX TWIST 60cm CPR137G		
409084043	CommScope F137CCS3		FlexTwist-F137CCS3 36In, 6GHz		
1AD150040001	CommScope UA-3		Universal Angle Adapters UA-3		
1AF26050AAAA	CommScope SD-003-KIT1		Static Dessicator Kit SD-003-KIT1		
1AF33269AAAA	CommScope 241088		KIT-241088-1 INSTLN 2-HOLE GROUNDING KIT		
3CC56455AC	CommScope VINTA-11W-AW1B		MPT interface for Commscope 11 GHz ant.		
3CC56455AF	CommScope VINTA-18-AW1B		MPT interface for Commscope 18 GHz ant.		
3CC57116AA	CommScope VINTX-11W-AUBTR		OMT UBT 11 GHz stand-alone Commscope		
3CC57119AA	CommScope VINTX-18-AUBTR		OMT UBT 18 GHz stand-alone Commscope		
409085453	CommScope D137CCSG		KIT-D137CCSG INSTLN MICROWAVE WR137 90		
409072832	F137CCS5		WR137 FLEX TWIST,1200 MM,CPR137G/CPR137G		
402945372			Hoisting Grip (43094) - Lace-up (1/2" coax,EW180,EW220)		
1AF16280AAAA			Pressure Window (112587) - mates to PBR220		
1AF14480AAAF			FOR HL/C: 2" Twistflex (F042KKS2) - PBR220/PBR220 (Tin plated version is F042KKS2-A, \$191.25, No OI Code)		
1AF15937AAAA			4" Boot (WGB4-180) - for EW180		
402059869	55001-137		PRESSURE WINDOW ASSEMBLY (CPR137) - WR137 PRESSURE WINDOW		
402093116	55001-90		Pressure Window		
402167829	31771-4		Ceiling Adapter Kit (Threaded rod kit)		
402662936	EW52		Andrew EW52 Heliax per foot		
405423773	42396A-8		Hanger Kit		
406936799	EW63		Andrew EW63 Heliax per foot		
407415645	EW90		Andrew EW90 Heliax per foot		
408781177	29958		Hoisting Grip		
408985216	31768A		Angle Member Adapter		
409072758	F090CCB2		2" Twistflex		
409083920	42396A-7		Hanger Kit		
409083938	EW5H-90		Hanger Kit		
409084308	220498		1 5/8 Grounding Kit (EW52, EW63, EW64), 60: Field attach lug		
409085107	252SE		Connector		
409085370	39099-137		Waveguide Termination		
409093101	190SE		Connector		
409085123	163SE		Connector, Tunable / CPR137G (bottom & top) (163SE)		
900358177	24312A		Hoisting Grip (24312A) - Lace-up (1-5/8" coax,EW44,EW52,EW63)		
409084381	204673-1		Wall/Roof Feed Thru, 4" (204673-1) - 1 per boot		
1AF13516AAAA	31769-1		Hardware Kit- 3/8" x 1" for Hangers (31769-1) (10 pack)		
409072790	F137CCD2		2" Twistflex (F137CCD2) - CPR137G/CPR137G		
409073244	WGB4-52		4" Boot (WGB4-52) - for EW52		
408948867	220497		Grounding kit (220497) (5/8", 7/8" coax, EW85,90,127,132), 60", Field attach lug		
408944288	42396A-5		Hanger Kit for EW90 / EW85 (42396A-5) (10 pack)		
409085388	39099-90		Waveguide Termination Load (39099-90) - CPR90G		
409072832			WR137 FLEX TWIST,1200 MM,CPR137G/CPR137G		
1AF15842AAAA			CPR137G & PDR70 Termination Load (VHLP) (112614-70)		
1AF25570AAAA			SREW63-K Cushion Hanger kit (5) 1 hole		
1AF25570ABAA			SREW632-K Cushion Hanger kit (5) 2 hole		
409019122			CA COAX-LDF4-50A 0.5IN 50OHM BC SOLID C Per Meter		
409054814			CONN COAX-L4TNM-PS 50OHM N PLUG MALE ST*		
1AB301170001	CommScope L4.5PNF-RC		Connector / N-Female, Plated, Ringflare (L4.5PNF-RC)		
1AF15841AAAA	CommScope 112615-220		Load Termination (RAM) / PBR220 load (can use on any Commscope antennas) (112615-220)		
405858168	CommScope SG12-06B2A		Grounding Kit, 24in wire, 1/2in coax, factory attach lug (Sureground Kit) (SG12-06B2A)		
1AF32173AAAA	EW63-59W		HELIAX Elliptical Waveguide, EWP63-59W		
409073269	WGB4-90 (replaces 204679-90)		4" Boot (WGB4-90) - for EW90		

END OF COMMSCOPE ANTENNA SYSTEMS Price Catalog

			Updated 4/19/2022
NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price	
\$ 2,850.00	60%	\$1,140.00	Added 4/19/2022
\$ 2,850.00	60%	\$1,140.00	Added 4/19/2022
\$ 2,850.00	60%	\$1,140.00	Added 4/19/2022
\$ 2,109.00	60%	\$843.60	Added 4/19/2022
\$ 2,109.00	60%	\$843.60	Added 4/19/2022
\$ 2,830.50	60%	\$1,132.20	Added 4/19/2022
\$ 3,310.00	60%	\$1,324.00	Added 4/19/2022
\$ 2,802.75	60%	\$1,121.10	
\$ 2,802.75	60%	\$1,121.10	
\$ 3,718.50	60%	\$1,487.40	
\$ 5,189.25	60%	\$2,075.70	
\$ 5,189.25	60%	\$2,075.70	
\$ 6,188.25	60%	\$2,475.30	
\$ 610.50	60%	\$244.20	
\$ 610.50	60%	\$244.20	
\$ 619.14	60%	\$247.66	Added 4/19/2022
\$ 619.14	60%	\$247.66	Added 4/19/2022
\$ 1,365.75	60%	\$546.30	Added 4/19/2022
\$ 1,332.00	60%	\$532.80	
\$ 1,498.50	60%	\$599.40	
\$ 1,498.50	60%	\$599.40	
\$ 2,220.00	60%	\$888.00	
\$ 3,168.00	60%	\$1,267.20	Added 4/19/2022
\$ 1,998.00	60%	\$799.20	
\$ 1,998.00	60%	\$799.20	
\$ 2,747.25	60%	\$1,098.90	
\$ 4,900.00	60%	\$1,960.00	Added 4/19/2022
\$ 4,900.00	60%	\$1,960.00	Added 4/19/2022
\$ 5,900.00	60%	\$2,360.00	Added 4/19/2022
\$ 530.00	60%	\$212.00	Added 4/19/2022
\$ 530.00	60%	\$212.00	Added 4/19/2022
\$ 1,221.00	60%	\$488.40	Added 4/19/2022
\$ 610.50	60%	\$244.20	Added 4/19/2022
\$ 610.50	60%	\$244.20	Added 4/19/2022
\$ 1,332.00	60%	\$532.80	Added 4/19/2022
\$ 650.00	60%	\$260.00	Added 4/19/2022
\$ 650.00	60%	\$260.00	Added 4/19/2022
\$ 1,400.00	60%	\$560.00	Added 4/19/2022
\$ 1,525.00	60%	\$610.00	Added 4/19/2022

\$ 1,525.00	60%	\$610.00	Added 4/19/2022
\$ 2,220.00	60%	\$888.00	Added 4/19/2022
\$ 3,168.00	60%	\$1,267.20	Added 4/19/2022
\$ 2,200.00	60%	\$880.00	Added 4/19/2022
\$ 2,200.00	60%	\$880.00	Added 4/19/2022
\$ 2,800.00	60%	\$1,120.00	Added 4/19/2022
\$ 4,500.00	60%	\$1,800.00	Added 4/19/2022
\$ 4,500.00	60%	\$1,800.00	Added 4/19/2022
\$ 5,400.00	60%	\$2,160.00	Added 4/19/2022
\$ 530.00	60%	\$212.00	Added 4/19/2022
\$ 530.00	60%	\$212.00	Added 4/19/2022
\$ 1,221.00	60%	\$488.40	Added 4/19/2022
\$ 610.50	60%	\$244.20	Added 4/19/2022
\$ 610.50	60%	\$244.20	Added 4/19/2022
\$ 1,332.00	60%	\$532.80	Added 4/19/2022
\$ 650.00	60%	\$260.00	Added 4/19/2022
\$ 650.00	60%	\$260.00	Added 4/19/2022
\$ 1,400.00	60%	\$560.00	Added 4/19/2022
\$ 1,525.00	60%	\$610.00	Added 4/19/2022
\$ 1,625.00	60%	\$650.00	Added 4/19/2022
\$ 2,220.00	60%	\$888.00	Added 4/19/2022
\$ 3,168.00	60%	\$1,267.20	Added 4/19/2022
\$ 2,100.00	60%	\$840.00	Added 4/19/2022
\$ 2,200.00	60%	\$880.00	Added 4/19/2022
\$ 2,800.00	60%	\$1,120.00	Added 4/19/2022
\$ 4,500.00	60%	\$1,800.00	Added 4/19/2022
\$ 4,800.00	60%	\$1,920.00	Added 4/19/2022
\$ 5,400.00	60%	\$2,160.00	Added 4/19/2022
\$ 510.60	60%	\$204.24	
\$ 510.60	60%	\$204.24	
\$ 1,221.00	60%	\$488.40	
\$ 1,285.00	60%	\$514.00	
\$ 610.50	60%	\$244.20	
\$ 610.50	60%	\$244.20	
\$ 1,332.00	60%	\$532.80	
\$ 619.14	60%	\$247.66	Added 4/19/2022
\$ 619.14	60%	\$247.66	Added 4/19/2022
\$ 1,365.75	60%	\$546.30	Added 4/19/2022
\$ 1,625.00	60%	\$650.00	Added 4/19/2022
\$ 1,800.00	60%	\$720.00	Added 4/19/2022
\$ 3,168.00	60%	\$1,267.20	Added 4/19/2022
\$ 1,998.00	60%	\$799.20	Added 4/19/2022
\$ 1,998.00	60%	\$799.20	Added 4/19/2022
\$ 4,384.50	60%	\$1,753.80	Added 4/19/2022
\$ 4,384.50	60%	\$1,753.80	Added 4/19/2022

\$ 2,220.00	60%	\$888.00	Added 4/19/2022
\$ 2,747.25	60%	\$1,098.90	Added 4/19/2022
\$ 5,217.00	60%	\$2,086.80	Added 4/19/2022
\$ 510.60	60%	\$204.24	
\$ 510.60	60%	\$204.24	
\$ 1,221.00	60%	\$488.40	
\$ 610.50	60%	\$244.20	
\$ 610.50	60%	\$244.20	
\$ 1,332.00	60%	\$532.80	
\$ 619.14	60%	\$247.66	Added 4/19/2022
\$ 619.14	60%	\$247.66	Added 4/19/2022
\$ 1,365.75	60%	\$546.30	Added 4/19/2022
\$ 1,498.50	60%	\$599.40	Added 4/19/2022
\$ 1,498.50	60%	\$599.40	Added 4/19/2022
\$ 1,998.00	60%	\$799.20	Added 4/19/2022
\$ 1,998.00	60%	\$799.20	
\$ 4,384.50	60%	\$1,753.80	Added 4/19/2022
\$ 4,384.50	60%	\$1,753.80	Added 4/19/2022
\$ 2,220.00	60%	\$888.00	Added 4/19/2022
\$ 2,747.25	60%	\$1,098.90	Added 4/19/2022
\$ 5,217.00	60%	\$2,086.80	Added 4/19/2022
\$ 3,168.00	60%	\$1,267.20	Added 4/19/2022
\$ 510.00	60%	\$204.00	Added 4/19/2022
\$ 1,221.00	60%	\$488.40	Added 4/19/2022
\$ 610.50	60%	\$244.20	Added 4/19/2022
\$ 610.50	60%	\$244.20	Added 4/19/2022
\$ 610.50	60%	\$244.20	Added 4/19/2022
\$ 1,332.00	60%	\$532.80	Added 4/19/2022
\$ 619.14	60%	\$247.66	Added 4/19/2022
\$ 619.14	60%	\$247.66	Added 4/19/2022
\$ 1,365.75	60%	\$546.30	Added 4/19/2022
\$ 1,498.50	60%	\$599.40	Added 4/19/2022
\$ 1,498.50	60%	\$599.40	Added 4/19/2022
\$ 2,220.00	60%	\$888.00	Added 4/19/2022
\$ 3,168.00	60%	\$1,267.20	Added 4/19/2022
\$ 1,998.00	60%	\$799.20	Added 4/19/2022
\$ 1,998.00	60%	\$799.20	Added 4/19/2022
\$ 2,747.25	60%	\$1,098.90	Added 4/19/2022
\$ 540.00	60%	\$216.00	Added 4/19/2022
\$ 540.00	60%	\$216.00	Added 4/19/2022
\$ 650.00	60%	\$260.00	Added 4/19/2022
\$ 650.00	60%	\$260.00	Added 4/19/2022
\$ 1,300.00	60%	\$520.00	Added 4/19/2022
\$ 1,425.00	60%	\$570.00	Added 4/19/2022
\$ 700.00	60%	\$280.00	Added 4/19/2022

\$ 700.00	60%	\$280.00	Added 4/19/2022
\$ 1,525.00	60%	\$610.00	Added 4/19/2022
\$ 540.00	60%	\$216.00	Added 4/19/2022
\$ 540.00	60%	\$216.00	Added 4/19/2022
\$ 650.00	60%	\$260.00	Added 4/19/2022
\$ 650.00	60%	\$260.00	Added 4/19/2022
\$ 1,300.00	60%	\$520.00	Added 4/19/2022
\$ 1,425.00	60%	\$570.00	Added 4/19/2022
\$ 700.00	60%	\$280.00	Added 4/19/2022
\$ 700.00	60%	\$280.00	Added 4/19/2022
\$ 1,525.00	60%	\$610.00	Added 4/19/2022
\$ 1,275.00	60%	\$510.00	Added 4/19/2022
\$ 565.00	60%	\$226.00	Added 4/19/2022
\$ 610.50	60%	\$244.20	Added 4/19/2022
\$ 610.50	60%	\$244.20	Added 4/19/2022
\$ 1,300.00	60%	\$520.00	Added 4/19/2022
\$ 1,425.00	60%	\$570.00	Added 4/19/2022
\$ 619.14	60%	\$247.66	Added 4/19/2022
\$ 619.14	60%	\$247.66	Added 4/19/2022
\$ 1,456.80	60%	\$582.72	Added 4/19/2022
\$ 566.10	60%	\$226.44	Added 4/19/2022
\$ 566.10	60%	\$226.44	Added 4/19/2022
\$ 677.10	60%	\$270.84	Added 4/19/2022
\$ 677.10	60%	\$270.84	Added 4/19/2022
\$ 1,276.50	60%	\$510.60	Added 4/19/2022
\$ 1,443.00	60%	\$577.20	Added 4/19/2022
\$ 667.70	60%	\$267.08	Added 4/19/2022
\$ 667.70	60%	\$267.08	Added 4/19/2022
\$ 1,578.20	60%	\$631.28	Added 4/19/2022
\$ 950.00	60%	\$380.00	Added 4/19/2022
\$ 1,250.00	60%	\$500.00	Added 4/19/2022
\$ 1,032.30	60%	\$412.92	
\$ 2,400.00	60%	\$960.00	Changed 4/19/2022
\$ 2,275.50	60%	\$910.20	
\$ 2,197.80	60%	\$879.12	
\$ 1,104.74	60%	\$441.90	Added 4/19/2022
\$ 2,306.60	60%	\$922.64	Added 4/19/2022
			Added 4/19/2022
NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price	
\$ 8,250.00	60.00%	\$3,300.00	Changed 4/19/2022
\$ 6,447.00	60.00%	\$2,578.80	
\$ 6,573.00	60.00%	\$2,629.20	
\$ 9,519.00	60.00%	\$3,807.60	
\$ 14,228.90	60.00%	\$5,691.56	

\$ 9,495.00	60.00%	\$3,798.00	
\$ 13,000.00	60.00%	\$5,200.00	
\$ 13,000.00	60.00%	\$5,200.00	
\$ 17,000.00	60.00%	\$6,800.00	
\$ 24,500.00	60.00%	\$9,800.00	
\$ 31,250.00	60.00%	\$12,500.00	
\$ 2,750.00	60.00%	\$1,100.00	Added 4/19/2022
\$ 2,633.30	60.00%	\$1,053.32	Added 4/19/2022
\$ 1,801.75	60.00%	\$720.70	Added 4/19/2022
\$ 4,200.00	60.00%	\$1,680.00	
\$ 4,250.00	60.00%	\$1,700.00	
\$ 6,575.00	60.00%	\$2,630.00	
\$ 6,573.00	60.00%	\$2,629.20	
\$ 9,514.00	60.00%	\$3,805.60	
\$ 13,000.00	60.00%	\$5,200.00	Added 4/19/2022
\$ 13,000.00	60.00%	\$5,200.00	
\$ 17,000.00	60.00%	\$6,800.00	
\$ 7,700.00	60.00%	\$3,080.00	Added 4/5/2022
			Added 4/19/2022
NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price	
\$ 1,950.00	60.00%	\$780.00	Added 4/19/2022
\$ 2,650.00	60.00%	\$1,060.00	Added 4/19/2022
\$ 1,277.50	60.00%	\$511.00	Moved 4/19/2022
\$ 2,050.00	60.00%	\$820.00	Added 4/19/2022
\$ 625.00	60.00%	\$250.00	Added 4/19/2022
			Added 4/19/2022
NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price	
\$ 9,375.00	60.00%	\$3,750.00	Moved 4/19/2022
\$ 573.00	60.00%	\$229.20	
\$ 1,119.00	60.00%	\$447.60	
\$ 804.00	60.00%	\$321.60	
\$ 561.00	60.00%	\$224.40	
\$ 9,500.00	60.00%	\$3,800.00	Moved 4/19/2022
			Added 4/19/2022
NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price	
\$ 32.25	60.00%	\$12.90	Added 4/19/2022
\$ 63.50	60.00%	\$25.40	Moved 4/19/2022
\$ 175.00	60.00%	\$70.00	Added 4/19/2022
\$ 12,500.00	60.00%	\$5,000.00	Added 4/19/2022
\$ 22,000.00	60.00%	\$8,800.00	Added 4/19/2022
\$ 22,000.00	60.00%	\$8,800.00	Added 4/19/2022
\$ 14,000.00	60.00%	\$5,600.00	Added 4/19/2022

\$ 16,750.00	60.00%	\$6,700.00	Added 4/19/2022
\$ 16,750.00	60.00%	\$6,700.00	Added 4/19/2022
\$ 25,500.00	60.00%	\$10,200.00	Added 4/19/2022
\$ 10,100.00	60.00%	\$4,040.00	Added 4/19/2022
\$ 160.20	60.00%	\$64.08	
\$ 40.50	60.00%	\$16.20	Added 4/19/2022
\$ 56.90	60.00%	\$22.76	Moved 4/19/2022
\$ 958.75	60.00%	\$383.50	Moved 4/19/2022
\$ 1,100.00	60.00%	\$440.00	Added 4/19/2022
\$ 240.00	60.00%	\$96.00	Added 4/19/2022
\$ 240.00	60.00%	\$96.00	Added 4/19/2022
\$ 98.00	60.00%	\$39.20	Added 4/19/2022
\$ 560.00	60.00%	\$224.00	Added 4/19/2022
\$ 560.00	60.00%	\$224.00	Added 4/19/2022
\$ 900.00	60.00%	\$360.00	Added 4/19/2022
\$ 900.00	60.00%	\$360.00	Added 4/19/2022
\$ 960.00	60.00%	\$384.00	Added 4/19/2022
\$ 1,363.00	60.00%	\$545.20	
\$ 61.40	60.00%	\$24.56	
\$ 190.00	60.00%	\$76.00	
\$ 725.00	60.00%	\$290.00	
\$ 160.20	60.00%	\$64.08	
\$ 101.77	60.00%	\$40.71	
\$ 204.61	60.00%	\$81.84	
\$ 146.87	60.00%	\$58.75	
\$ 35.85	60.00%	\$14.34	
\$ 73.80	60.00%	\$29.52	
\$ 27.96	60.00%	\$11.18	
\$ 25.22	60.00%	\$10.09	
\$ 74.18	60.00%	\$29.67	
\$ 200.00	60.00%	\$80.00	
\$ 1,125.00	60.00%	\$450.00	
\$ 66.23	60.00%	\$26.49	
\$ 230.40	60.00%	\$92.16	
\$ 74.18	60.00%	\$29.67	
\$ 894.40	60.00%	\$357.76	
\$ 207.90	60.00%	\$83.16	
\$ 820.00	60.00%	\$328.00	Changed 4/19/2022
\$ 518.36	60.00%	\$207.34	
\$ 97.00	60.00%	\$38.80	
\$ 86.42	60.00%	\$34.57	
\$ 34.00	60.00%	\$13.60	Changed 4/19/2022
\$ 1,250.00	60.00%	\$500.00	
\$ 160.20	60.00%	\$64.08	
\$ 109.73	60.00%	\$43.89	
\$ 67.13	60.00%	\$26.85	
\$ 186.58	60.00%	\$74.63	
\$ 1,045.00	60.00%	\$418.00	
\$ 685.00	60.00%	\$274.00	
\$ 199.75	60.00%	\$79.90	
\$ 225.00	60.00%	\$90.00	Changed 4/19/2022
\$ 14.45	60.00%	\$5.78	
\$ 49.80	60.00%	\$19.92	
\$ 106.95	60.00%	\$42.78	Added 4/19/2022
\$ 415.00	60.00%	\$166.00	Added 4/19/2022
\$ 45.10	60.00%	\$18.04	Added 4/19/2022
\$ 14.65	60.00%	\$5.86	Added 4/19/2022
\$ 160.20	60.00%	\$64.08	



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PRODUCT / DESCRIPTION
7x50 ESS-6v/12 SR-12 Fan Filter
1-port 1000BASE-SX Small Form-Factor Pluggable (SFP) Optics Module, Multimode Fiber (MMF), 550 meters, 850 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
1-port 1000BASE-LX Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 10 km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
1-port 1000BASE-ZX Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 70km, 1550 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
1-port OC-3/STM-1 SONET/SDH Optics Module, Multimode Fiber (MMF), 2km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
1-port OC-3/STM-1 SONET/SDH Optics Module, IR-1 / I-1, Single Mode Fiber (SMF), 15-21km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
1-port OC-3/STM-1 SONET/SDH Optics Module, LR-1 / L-1.1, Single Mode Fiber (SMF), 40-50km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
1-port 10/100/1000BASE-TX Small Form-Factor Pluggable (SFP) Copper Module, Cat5, RJ45 Connector, RoHS 6/6 compliant, Extended Temperature -40/85C
7x50 SR-7/ESS-7 Fan Filter
7750 SR-12 slot Cable Management Accessory.
AC Power Cable NEMA 5-15P to IEC 60320 C13 10A/110V 1.8 meter- United States / Canada / South America
AC Power Cable NEMA 6-15P to IEC 60320 C13 10A/220V, 1.8 meter - United States / Canada / South America
AC Power Cable CEE 7/7 to IEC 60320 C13 10A/220V 2.8 meter - Continental Europe
AC Power Cable BS 1363 to IEC 60320 C13 10A/220V, 2.8 meter- United Kingdom / Hong Kong /Singapore
AC Power Cable Blunt cut to IEC 60320 C13, 2.4 meter, 10A/220V,USA / Canada / South America
AC Power Cable NEMA 5-15P to IEC 60320 C19 15A/110V 2.8 meter - United States / Canada / South America
AC Power Cord NEMA 5-15P to IEC 60320 C13 13A/110V 2.5 meter- United States / Canada / South America
AC Power Cable blunt cut with IEC 60320 locking C19 20A/250V, 4.5 meter - USA
AC Power Cable blunt cut with IEC 60320 locking C19 16A/250V, 4.5 meter - Europe
AC Power Cable NEMA 5-15P to IEC 60320 C15 15A/110V 1.8 meter- United States / Canada / South America
AC Power Cable NEMA 6-15P to IEC 60320 C15 15A/220V, 1.8 meter - United States / Canada / South America
AC Power Cable CEE 7/7 to IEC 60320 C15 10A/220V 2.8 meter - Continental Europe
AC Power Cable BS 1363 to IEC 60320 C15 10A/220V, 2.8 meter- United Kingdom / Hong Kong /Singapore
AC Power Cable Blunt cut to IEC 60320 C15, 2.4 meter, 10A/220V International
AC Power Cable IEC 320 C-14 to Blunt cut 15A/220V.
1-port 1000BASE-EX Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1310nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
1-port 1000BASE-BX10-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 10km, TX:1310 nm, RX: 1490 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
1-port 1000BASE-BX10-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 10km, TX: 1490 nm, RX: 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Extended Temperature -40/85C
Cable 7x50 CONSOLE CABLE, NULL MODEM, 6', CROSSOVER PIN-OUT, DB9F-DB9F
7750 SR MDA slot blank cover
1-port 1000BASE-EZX Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 120km, 1550nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
SR/ESS/SAS/SAR 2 GB Compact Flash - Spare (Blank)
7750 SR-7 19-inch Rack Mount Brackets, 1 pair - spare
7750 SR-12 19-inch Rack Mount Brackets , 1 pair - spare
7750 SR-7, 7450 ESS-6/7 Ground and Power Lug Kit for Qty=5 shelves, spare, includes: (5) #6 AWG Ground Lugs (10) Ground Screws (20) #6 AWG DC Power Lugs

<p>7750 SR-7, 7450 ESS-7 Ground and Power Lug Kit for Qty=5 shelves, spare, includes: (5) #2 AWG Ground Lugs (10) Ground Screws (20) #2 AWG DC Power Lugs</p>
<p>7750 SR-12/7450 ESS-12 Ground and Power Lug Kit for PEM-3 Qty=5 shelves, spare, includes: (40) #4 Lugs for Power (40) #2 Lugs for Power (10) #2 Lugs for Ground</p>
<p>The Auxiliary Alarm Card provides additional alarm support for high density digital inputs and outputs, as well as 2 analog inputs. Access to all the signal pins is via the AMP 68 pin connector. The 16 AWG open-ended cables of 15 and 30 meters length (3HE03398AB/3HE03399AB), as well as the SCSI to AMP 64 pin cable (3HE02783AA), can be used in conjunction with this card. This card is supported in both -48 VDC and +24 VDC systems.</p>
<p>Conformal Coated Variant of Auxiliary Alarm. The Card provides additional alarm support for high density digital inputs and outputs, as well as 2 analog inputs. Access to all the signal pins is via the AMP 68 pin connector. The 16 AWG open-ended cables of 15 and 30 meters length (3HE03398AB/3HE03399AB), as well as the SCSI to AMP 64 pin cable (3HE02783AA), can be used in conjunction with this card. This card is supported in both -48 VDC and +24 VDC systems.</p>
<p>SAR Control and Switch Module Version 2. One (1) required per SAR-8 shelf or up to two (2) per SAR-8 Shelf for CPU and fabric redundancy. -48/+24VDC</p>
<p>Conformal Coated Variant of SAR Control and Switch Module Version 2. One (1) required per SAR-8 shelf or up to two (2) per SAR-8 Shelf for CPU and fabric redundancy. -48/+24VDC</p>
<p>16-port Channelized/Unchannelized T1/E1 Any Service Any Port (ASAP) Card V2, supports channelization down to DS0 and ATM/PPP/TDM encapsulations. Each port can be independently configured for the different services and can be used for access or network ports. This card is supported in both -48 VDC and +24 VDC systems.</p>
<p>Conformal Coated Variant of 16-port Channelized/Unchannelized T1/E1 Any Service Any Port (ASAP) Card V2, supports channelization down to DS0 and ATM/PPP/TDM encapsulations. Each port can be independently configured for the different services and can be used for access or network ports. This card is supported in both -48 VDC and +24 VDC systems.</p>
<p>Terminates 6 analog FXS subscriber interfaces from local telephone set. RJ45 connector access (2 ports/connector). On-premise applications only. -48/+24VDC</p>
<p>Conformal Coated FXS line card. Terminates 6 analog FXS subscriber interfaces from local telephone set. RJ45 connector access (2 ports/connector). On-premise applications only. -48/+24VDC</p>
<p>32-port Channelized/Unchannelized T1/E1 Any Service Any Port (ASAP) Card, supports channelization down to DS0 and ATM/PPP/TDM encapsulations. Each port can be independently configured for the different services and can be used for access or network ports. This card is supported in both -48 VDC and +24 VDC systems.</p>
<p>Packet Microwave Card has two 10/100/1000 RJ45 ports and six GigE SFP ports. The two RJ45 ports and the first two SFP ports can be connected to MPR-e radio with microwave awareness capabilities. Each port can be used for access or network ports. SFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.</p>
<p>Conformal Coated Variant of Packet Microwave Card has two 10/100/1000 RJ45 ports and six GigE SFP ports. The two RJ45 ports and the first two SFP ports can be connected to MPR-e radio with microwave awareness capabilities. Each port can be used for access or network ports. SFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.</p>
<p>Provides access to all the inputs and outputs for the Aux Alarm card. AMP 68 pin (SCSI-2) connector attaches to the module and AMP 64 pin connector can be directly attached to other telecom equipment or breakout unit. 3 meters in length.</p>
<p>SAR Release 9.0 OS License. One (1) OS Upgrade is required for each SAR-8, SAR-M, SAR-A, SAR-W, SAR-Wx, SAR-H, SAR-Hc, SAR-X, SAR-Ax in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>
<p>SAR Release 20.x OS License. One (1) OS Upgrade is required for each SAR-8, SAR-M, SAR-A, SAR-W, SAR-Wx, SAR-H, SAR-Hc, SAR-X, SAR-Ax in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>
<p>SAR Release 21.x OS License. One (1) OS Upgrade is required for each SAR-8, SAR-M, SAR-A, SAR-Wx, SAR-H, SAR-Hc, SAR-X, SAR-Ax in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>
<p>SAR Release 9.0 OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-8, SAR-M, SAR-A, SAR-W, SAR-Wx, SAR-H, SAR-Hc, SAR-X, SAR-Ax in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>

<p>SAR Release 20.x OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-8, SAR-M, SAR-A, SAR-W, SAR-Wx, SAR-H, SAR-Hc, SAR-X, SAR-Ax in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/</p>
<p>SAR Release 21.x OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-8, SAR-M, SAR-A, SAR-Wx, SAR-H, SAR-Hc, SAR-X, SAR-Ax in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/</p>
<p>Valere AC Split Power Shelf, one (1) required for AC operation of Nokia SR-7, ESS-7/6/6v chassis. Shelf is electrically split with two (2) power outputs for 1+1 redundancy. Accepts up to four (4) SR/ESS 2500W AC Power Supplies and/or SR/ESS AC Split Power Shelf Blanks (all sold separately). Includes four (4) power lugs for the supply cables from the Power Shelf. SR-7, ESS-7/6/6v Status Cable recommended (sold separately).</p>
<p>Valere 2500 Watt AC Power Supply for the Valere AC Split Power Shelf. For 1 + 1 redundancy for the SR-12/ESS-12, four (4) supplies required. For 1 + 1 Redundancy on the ESS-6: two (2) supplies required and two SR/ESS AC Split Power Shelf Blanks (recommended) (sold separately). One (1) SR/ESS 2500W AC Power Supply Cord required for each Power Supply (sold separately).</p>
<p>SR/ESS AC Split Power Shelf Slot Blanks, one (1) blank recommended for each unoccupied power supply position in the SR/ESS AC Split Power Shelf</p>
<p>AC Power Cable IEC 60320-C19 to Blunt cut 2.4 meter 220V for SR/ESS 2500 Watt AC Power Supply for the SR/ESS AC Split Power Shelf, Blunt Cut - United States / Canada / South America, one (1) cord required per 2500 AC Power Supply, appropriate wall end connector needs to be installed</p>
<p>Cable SR/ESS AC Split Power Shelf SR-12/ESS-12 Status Cable, one (1) cable recommended to connect the SR-12/ESS-12 chassis to the SR/ESS AC Split Power Shelf</p>
<p>Replacement blanking plates for the SAR-8 slots and the smaller SAR-18 adapter card slots. To be installed in empty slots for air flow and EMI. Package of 6.</p>
<p>Valere External AC Rectifier Bundle, includes: (1) 3HE02786BA Redundant AC power for SR-7, ESS-7 with AC split shelf, (4) 3HE02787AA AC power supplies, (1) 3HE04519AA status cable, (4) 3HE02946AA DC lugs and blunt-cut AC International power cords, User must supply DC power cables, chassis lugs and AC wall connectors.</p>
<p>4-port OC3/STM1 Clear Channel Card, supporting ATM services and POS network links. Includes 4 SFP cages for interfaces. Each port can be used for access or network ports. SFPs sold separately. -48VDC</p>
<p>Conformal Coated Variant of 4-port OC3/STM1 Clear Channel Card, supporting ATM services and POS network links. Includes 4 SFP cages for interfaces. Each port can be used for access or network ports. SFPs sold separately. -48VDC</p>
<p>6 port E&M analog voice interface card configurable for 2 or 4 wire operation. Supports Type I, II and V signaling and A-law and μ-Law encoding. 600ohm interface with programmable TLP ranges. -48VDC</p>
<p>Conformal Coated Variant of 6 port E&M analog voice interface card configurable for 2 or 4 wire operation. Supports Type I, II and V signaling and A-law and μ-Law encoding. 600ohm interface with programmable TLP ranges. -48VDC</p>
<p>2-port OC3/STM1 Card, with channelization down to DS0 and ATM/PPP/TDM encapsulations. Each port can be independently configured for the different services and access/network. SFPs sold separately.</p>
<p>Conformal Coated Variant of 2-port OC3/STM1 Card, with channelization down to DS0 and ATM/PPP/TDM encapsulations. Each port can be independently configured for the different services and access/network. SFPs sold separately.</p>
<p>12 port Serial Data Interface - Version 3 (SDiv3) card. Supports RS232, RS530, X.21 and V.35 protocols. This card provides a SCSI-68 connector per 2 ports. Supports DTE/DCE port configs utilizing generic cables 3HE12409AA/3HE12410AA applicable to all available port distribution panels (3HE12442AA, 3HE12443AA, 3HE12444AA, 3HE12445AA).</p>
<p>Conformal Coated Variant of 12 port Serial Data Interface - Version 3 (SDiv3) card. Supports RS232, RS530, X.21 and V.35 protocols. This card provides a SCSI-68 connector per 2 ports. Supports DTE/DCE port configs utilizing generic cables 3HE12409AA/3HE12410AA applicable to all available port distribution panels (3HE12442AA, 3HE12443AA, 3HE12444AA, 3HE12445AA).</p>
<p>This cable connects a 16 port T1/E1 ASAP connector to a breakout panel. SCSI connector at both ends in cross-over configuration. 1.6 meter in length.</p>
<p>Provides access to 16 ports of a T1/E1 ASAP card; the 32 port T1/E1 ASAP card requires 2 cables. AMP 68 pin connector attaches to the module and the open end (26 AWG) can be directly attached to other telecom equipment or a punch-down/terminal block. 30 meters in length.</p>
<p>Mini coax Y-cable to connect a single synchronization reference to the input ports of the two 7705 CSMs.</p>

7750 SR-7 DC 100 AMP PEM-3 for Slot 2. 7750 SR-7 DC 100 AMP PEM-3 provides 1+1 redundant DC power.

Note:

Requires the 3HE04498AA - 7750 SR-7 DC 100Amp Power Filter to be installed in the front of the SR-7

7750 SR-7 DC 100 AMP PEM-3 for Slot 1. 7750 SR-7 DC 100 AMP PEM-3 provides 1+1 redundant DC power.

Note:

Requires the 3HE04498AA - 7750 SR-7 DC 100Amp Power Filter to be installed in the front of the SR-7

7750 SR, 12-slot Shelf 175 AMP DC Power Entry Module-3 for the 7750 SR-12 DC Shelf.

7450 ESS-7 DC 100 AMP PEM-3 for Slot 2. 7450 ESS-7 DC 100 AMP PEM-3 provides 1+1 redundant DC power.

Note:

Requires the 3HE04500AA - 7450 ESS-7 DC 100Amp Power Filter to be installed in the front of the 7450 ESS-7.

7450 ESS-7 DC 100 AMP PEM-3 for Slot 1. 7450 ESS-7 DC 100 AMP PEM-3 provides 1+1 redundant DC power.

Note:

Requires the 3HE04500AA - 7450 ESS-7 DC 100Amp Power Filter to be installed in the front of the 7450 ESS-7.

7450 ESS-12, 12-slot Shelf 175 AMP DC Power Entry Module-3 for the 7450 ESS-12 DC Shelf.

ACC - 7750 SR Impedance Panel Qty 1

ACC - 7750 SR Impedance Panel Qty 5

Valere AC Un-Split power shelf for the Nokia ESS/SR-12;

The Valere AC un-split power shelf accepts up to four (4) ESS/SR 2500 Watt AC Power supplies. (Requires 2 Valere AC un-split power shelves for AC redundancy for the Nokia ESS/SR-12 with PEM-3)

Includes:

One (1) 3HE04172AA - ESS/SR-12 Valere AC un-Split Power Shelf (includes four (4) power lugs)

Power Cables, Status Cable and Power Supplies are sold separately.

Valere AC Un-Split Power Shelf for the ESS/SR-12 Status Cable, two (2) cable recommended to connect the ESS/SR-12 chassis to the SR/ESS AC Un-Split Power Shelf.

Valere AC Power Bundle for the ESS/SR-12 for 175 Amp PEM-3

The AC power shelf converts AC power from an external AC power source into DC power that is suitable for the ESS/SR-12 Chassis. On systems using the PEM-3, a 1:1 power shelf to PEM-3 ratio exists with a maximum of two shelves and two PEM-3s per chassis;

Bundle includes the following;

(2) 3HE04172AA - ESS/SR-12 Valere AC Un-Split Shelves

(8) 3HE02787AA - ESS/SR Valere 2.5KW Power Supplies

(2) 3HE04173AA - ESS/SR-12 AC Rectifier Status Cable

(8) 3HE02946AA - ESS/SR 2500W Valere International Power Cords Blunt Cut

1-port 1000BASE-BX-U Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, TX: 1310 nm, RX: 1490nm, 40km, LC Connector

1-port 1000BASE-BX-D Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, TX: 1490nm, RX: 1310nm, 40km, LC Connector

PS - 7210 SAS M/Mxp/T AC PS (NON-ETR) 200W

PS - 7210 SAS M/Mxp/T DC -48V PS (NON-ETR) 200W

FAN - 7210 SAS M/Mxp/T Fan Tray (ETR & Non ETR) (Spare)

7750 SR-7 100 AMP Power Filter is required for the 7750 SR-7 100Amp PEM-3 for Slot 1 and Slot 2 (installs in the front of the 7750 SR-7 Chassis)

7450 ESS-7 100 AMP Power Filter is required for the 7450 ESS-7 100Amp PEM-3 for Slot 1 and Slot 2 (installs in the front of the 7450 ESS-7 Chassis)

Connects Serial Data Interface card to external equipment. Mini-SCSI connector attaches to the SDI card and the open end can be directly attached to other telecom equipment. Supports 6 data ports. 10 meters in length. Each Serial Data Interface Card can support two cable assemblies. Uses 30 AWG wire and may not be compatible with some connector panels.

<p>Bundle for the 7450 ESS-7 Slot Chassis for Slot 1 PEM-3's, bundle includes the following;</p> <p>7450 ESS-7 DC PEM-3 Slot 1 and 100 AMP DC Filter Bundle: Includes: (1) 3HE03665AA - 7450 ESS-7 100 AMP DC Power Entry Module-3 Slot 1 with (1) 3HE04500AA PWR FLT - 7450 ESS-7 100 AMP PWR FILTER</p> <p>Note: The 3HE04500AA - PWR FLT - 7450 ESS-7 100 AMP PWR FILTER (installed in the front of the chassis) is required for the 3HE03665AA - PEM - 7450 ESS-7 100A DC PEM-3 SLOT 1.</p>
<p>Bundle for the 7450 ESS-7 Slot Chassis for Slot 2 PEM-3's:</p> <p>7450 ESS-7 DC PEM-3 Slot 2 and 100 AMP DC Filter Bundle: Includes: (1) 3HE03664AA - 7450 ESS-7 100 AMP DC Power Entry Module-3 Slot 2 with (1) 3HE04500AA PWR FLT - 7450 ESS-7 100 AMP PWR FILTER</p> <p>Note: The 3HE04500AA - PWR FLT - 7450 ESS-7 100 AMP PWR FILTER (installed in the front of the chassis) is required for the 3HE03664AA - PEM - 7450 ESS-7 100A DC PEM-3 SLOT 2.</p>
<p>Valere AC Power Shelf Status Cable, cable recommended to connect the ESS/SR-7 chassis to the AC Split Power Shelf (split or unsplit).</p>
<p>Bundle for the 7750 SR-7 Slot Chassis for Slot 1 PEM-3's;</p> <p>7750 SR-7 DC 100 AMP PEM-3 for Slot 1 and 100 AMP DC Filter Bundle, includes: (1) 3HE03662AA - 7750 SR-7 100A DC PEM-3 SLOT 1 with (1) 3HE04498AA PWR FLT - 7750 SR-7 100 AMP PWR FILTER</p> <p>Note: The 3HE04498AA - PWR FLT - 7750 SR-7 100 AMP PWR FILTER (installed in the front of the chassis) is required for the 3HE03662AA - 7750 SR-7 100A DC PEM-3 SLOT 1.</p>
<p>Bundle for the 7750 SR-7 Slot Chassis for Slot 2 PEM-3's;</p> <p>7750 SR-7 DC 100 AMP PEM-3 for Slot 1 and 100 AMP DC Filter Bundle, includes: (1) 3HE03661AA - 7750 SR-7 100A DC PEM-3 SLOT 2 with (1) 3HE04498AA PWR FLT - 7750 SR-7 100 AMP PWR FILTER</p> <p>Note: The 3HE04498AA - PWR FLT - 7750 SR-7 100 AMP PWR FILTER (installed in the front of the chassis) is required for the 3HE03661AA - 7750 SR-7 100A DC PEM-3 SLOT 2.</p>
<p>ACC - 7750 SR-12 SLOT PEM-3 Upgrade Kit, includes: Lugs, Installations guide and Agency overlay</p>
<p>ACC - 7750 SR-7 SLOT PEM-3 Upgrade Kit, includes: Lugs, Installations guide and Agency overlay</p>
<p>SR/ESS/SAS/SAR4 GB Compact Flash - Spare (Blank)</p>
<p>SR/ESS/SAS/SAR 8 GB Compact Flash - Spare (Blank)</p>
<p>1-port 10GBASE-LR Small Form-Factor Pluggable+ (SFP+) Optics Module, Single Mode Fiber (SMF), 10km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant</p>
<p>1-port 10GBASE-SR Small Form-Factor Pluggable+ (SFP+) Optics Module, 850 nm, 26 to 300 meters, LC Connector, RoHS 6/6 compliant</p>
<p>SROS L2-aware NAT license. This is a per system license. Flow licenses not required for L2-Aware.</p>
<p>SROS license to enable LNS capability. Per system license.</p>
<p>SROS Residential Aggregate Control license - per 10 Gbps. Must use with equivalent capacity ID RTU. Aggregate means for traffic without per-subscriber context. Not used for VPN services. Per system and per active ISA license, or per network license.</p>
<p>SROS Residential Aggregate Control license - per 1Gb/s. Aggregate means for traffic without per-subscriber context. Not used for VPN services. Per system and per active ISA license, or per network license.</p>
<p>1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1471 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.</p>
<p>1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1491 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.</p>
<p>1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1511 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.</p>
<p>1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1531 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.</p>
<p>1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1551 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.</p>

1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1571 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1591 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1611 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
SAR-18 shelf that accepts up to 2 SAR-18 Control Switch Modules (CSMs) and up to 16 interface cards. Up to 12 SAR 8-type interface cards can be used. Other 4 slots are high speed interface cards specific to the SAR-18. Blanking plates included. -48VDC only.
SAR-18 Control and Switch Module. Up to two per SAR-18 Shelf for CPU and fabric redundancy.
SAR-18 Fan Module with a set of 8 fans
SAR-18 Alarm Module with Alarm LEDs and I/O, as well as two BITS timing input/output ports.
SAR-18 Replaceable Air Filters, 4 pack
1-port 10GBASE-ER Small Form-Factor Pluggable+ (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1550 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant
1-port 10GBASE-BX10-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 10km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Temperature 0/70C
1-port 10GBASE-BX10-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 10km, TX: 1270 nm, RX: 1330 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Temperature 0/70C
1-port 10GBASE-BX10-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 10km, TX: 1270 nm, RX: 1330 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Temperature 0/70C
1-port 10GBASE-BX10-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 10km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Temperature 0/70C
1RU SAR-M with 1 modular position configuration with redundant universal (-48V/+24V) DC power feeds. Node has 16 T1/E1 ASAP and 7 10/100/1000 Mbps Ethernet ports (4 SFP/3 RJ45) and built-in Control/Switch functionality. OS and other licenses sold separately.
Conformal Coated 1RU SAR-M with 1 modular position configuration with redundant universal (-48V/+24V) DC power feeds. Node has 16 T1/E1 ASAP and 7 10/100/1000 Mbps Ethernet ports (4 SFP/3 RJ45) and built-in Control/Switch functionality. OS and other licenses sold separately.
FAN - 7750 SR-12 Reduced Depth - Enhanced Fan Tray
SROS initial 1Gb/s ID and control RTU license. Not needed if purchasing the 10G RTUs. Per system and active ISA license.
SROS identification only license - per 1Gb/s increment. Not needed for first Gb/s. Per system and per active ISA license, or per network license.
SROS identification only license - up to 10Gb/s. Per system and per active ISA license, or per network license.
SROS Residential per-subscriber or VPN per-site control license - per additional 1Gb/s increment. Not needed for first Gb/s. Per system and per active ISA license, or per network license.
SROS Residential per-subscriber or VPN per-site control license - per 10Gb/s. Must use with equivalent capacity identification RTU. Per system and per active ISA license, or per network license.
SROS Software license to enable use of the ISA1 for IPsec Tunneling Applications, this is a per system and per active ISA1 license.
SROS license to be able to use the MS-ISA for advanced video processing. Additional licenses are required for each video application. Per system and per active ISA license.
SROS license to be able video add insertion per splice. Requires MS-ISA card + video base software license. Per system and per active ISA license.
SROS license to be able Fast Channel Change (FCC) / Retransmissions (RET) for 1k subscribers. Requires MS-ISA card + video base software license. Per system and per active ISA license.
SROS license to be able Fast Channel Change (FCC) / Retransmissions (RET) for 10k subscribers. Requires MS-ISA card + video base software license. Per system and per active ISA license.
1-port 100/1000Base Dual Rate SGMII Small Form-Factor Pluggable (SFP) Optics Module, 1310nm, 40km, DDM Compliant
1-port 100/1000Base Dual Rate SGMII Small Form-Factor Pluggable (SFP) Optics Module, 1310nm, 10km, DDM Compliant
FAN - 7750 SR-7 Reduced Depth - Enhanced Fan Tray
SAR Release 9.0 OS License. One (1) OS License is required for each SAR-18 in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .

SAR Release 20.x OS License. One (1) OS License is required for each SAR-18 in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
SAR Release 21.x OS License. One (1) OS License is required for each SAR-18 in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
PS - 7210 SAS-T/Mxp ETR (200W) AC Power Supply
PS - 7210 SAS-T/Mxp ETR -48V (200W) DC Power Supply
PS - 7210 SAS-T/Mxp ETR -48V (200W) DC Conformal Coated Power Supply
Must be used with Conformal Coated System to maximize benefit of CC.
1RU SAR-M with 1 modular position with Ethernet ports only configuration with redundant universal (-48V/+24V) DC power feeds. Node has 7 10/100/1000 Mbps Ethernet ports (4 SFP/3 RJ45) and built-in Control/Switch functionality. OS and other licenses sold separately.
Conformal Coated 1RU SAR-M with 1 modular position with Ethernet ports only configuration with redundant universal (-48V/+24V) DC power feeds. Node has 7 10/100/1000 Mbps Ethernet ports (4 SFP/3 RJ45) and built-in Control/Switch functionality. OS and other licenses sold separately.
1-port 10GBASE-LR Small Form-Factor Pluggable (XFP) Optics Module, Single Mode Fiber (SMF), 10km, 1310 nm, LC Connector, Digital Diagnostic Monitor(DDM), RoHS 6/6 compliant , Extended Temperature -40/85C
1-port 10GBASE-ZR Small Form-Factor Pluggable (XFP) Optics Module, Single Mode Fiber (SMF), 80km, 1550nm, LC Connector, Digital Diagnostic Monitor(DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
Used to connect 3HE05838AA 250W 120/240V AC power converter to SAR-8 Shelf v2, SAR-A/F/M shelves and any other shelf supporting O-ring connectors
250W power adapter brick converting 120/240V AC to -48V DC. Requires separate pigtail for specific 7705 products.
8 port multi-function card with 2 x FXS and 2 x FXO ports for analog voice, 2 x G.703 co-directional ports and 2 x C37.94 optical teleprotection ports. This card is supported in both -48 and +24VDC systems.
Conformal Coated Variant of 8 port multi-function card with 2 x FXS and 2 x FXO ports for analog voice, 2 x G.703 co-directional ports and 2 x C37.94 optical teleprotection ports. This card is supported in both -48 and +24VDC systems.
SAR-18 CSM Blanking Plate
SR/ESS 32 GB Compact Flash - Spare (Blank)
8-port GigE SFP Enhanced Performance Ethernet Card, supporting Ethernet/VLAN services. Includes 8 SyncE capable GigE ports. SFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.
8-port GigE SFP Enhanced Performance Ethernet Card v3 w. Large Tables, encryption capable and supporting Ethernet/VLAN services. Includes 8 SyncE capable GigE ports. SFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems. Note: SW license (3HE09302AA) required to enable hardware encryption (RTU-8 PORT GE SFP CARD V3 Encrypt)
8-port GigE SFP Enhanced Performance Ethernet Card, supporting Ethernet/VLAN services. Includes 8 SyncE capable GigE ports. SFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.
Conformal Coated Variant of 8-port GigE SFP Enhanced Performance Ethernet Card v3 w. Large Tables, encryption capable and supporting Ethernet/VLAN services. Includes 8 SyncE capable GigE ports. SFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems. Note: SW license (3HE09302AA) required to enable hardware encryption (RTU-8 PORT GE SFP CARD V3 Encrypt)
1-port 10GigE or 10-port 1GigE 10G-Card v2, encryption capable. Supports one of two modes. In 1-port 10GigE mode, only one SFP+ based port can be used for nw connectivity with the other ports disabled. In 10-port 1GigE mode, ten SFP based ports can be used for access or nw connectivity. SFP/SFP+ sold separately. Additional RTU (3HE09302BA) required to use HW Encryption.
PS - 7210 SAS-M/Mxp/T ETR +24V DC Power supply
PS - 7210 SAS-T/Mxp ETR +24V (200W) DC Power Supply
ACC - 7210 SAS-M/Mxp/T 23" rack mount (5 set pack)
ACC - 7210 SAS-M/Mxp/T Fan tray filter (10 pack)
SROS RTP Performance Measurement per 10G/s traffic license. Per system and per active ISA license, or per network license.
Kit used to upgrade existing 7705 T1/E1 distribution panels (3HE03394AA, 3HE03395AA, 3HE04430AA) to meet IEEE1613 and IEC 61850-3 environmental specifications
1-port 40GBase LR4 10km QSFP+ Optics Module, 10km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)

<p>SROS Enhanced Subscriber Management (ESM) base license. This base ESM license is required for using the ESM features on 7x50 platforms for IPoE, PPPoE, PPOA, and L2TP subscribers. Use of embedded DHCPv4 and DHCPv6 server functionality on 7x50 is also included in this license.</p> <p>This is a per system license applicable to all 7x50 platforms using any flavor or IMM, IOM , MDA or CMA.</p> <p>It applies to both layer-2 and layer-3 (routed CO) ESM models, and includes IPv4, IPv6 and dual-stack access. Requires L2HQ or L3HQ licenses on the IMM modules. Additional per subscriber licenses apply.</p>
<p>SROS Enhanced Subscriber Management (ESM) subscriber-host license for up to 4K subscriber-hosts.</p> <p>This is a per system license. Multiple of these RTUs could be bought to match the total number of subscribers targetted to be supported on the chassis.</p>
<p>RTU - 7x50 Enhanced Subscriber Management (ESM) subscriber-host license for up to 16K subscriber-hosts.</p> <p>This is a per chassis license. Multiple of these RTUs could be bought to match the total number of subscribers targetted to be supported on the chassis.</p>
<p>SROS Enhanced Subscriber Management (ESM) subscriber-host license for up to 32K subscriber-hosts.</p> <p>This is a per system license. Multiple of these RTUs could be bought to match the total number of subscribers targetted to be supported on the chassis.</p>
<p>SROS Enhanced Subscriber Management (ESM) subscriber-host license for up to 64K subscriber-hosts.</p> <p>This is a per system license. Multiple of these RTUs could be bought to match the total number of subscribers targetted to be supported on the chassis.</p>
<p>SROS Enhanced Subscriber Management (ESM) subscriber-host license for up to 128K subscriber-hosts.</p> <p>This is a per system license. Multiple of these RTUs could be bought to match the total number of subscribers targetted to be supported on the chassis.</p>
<p>SROS Enable RTP Performance license. Must be ordered as a pre-requisite to the RTP 1G or 10G RTUs. Per system and per active ISA license, or per network license.</p>
<p>1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1471 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1491 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1511 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1531 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1551 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1571 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1591 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1611 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1471 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1491 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1511 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1531 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1551 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1571 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1591 nm is filtered by East and West directions.</p>
<p>1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1611 nm is filtered by East and West directions.</p>
<p>2-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1471 and 1491 nm are filtered by East and West directions.</p>
<p>2-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1511 and 1531 nm are filtered by East and West directions.</p>
<p>2-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1551 and 1571 nm are filtered by East and West directions.</p>
<p>2-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1591 and 1611 nm are filtered by East and West directions.</p>
<p>4-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1471, 1491, 1511 and 1531 nm are filtered from the line (single direction) with expansion port.</p>
<p>4-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1551, 1571, 1591 and 1611 nm are filtered from the line (single direction) with expansion port.</p>

8-color CWDM optical Mux/Demux module for the SAR-8/18. 1 Tx and 1 Rx at 1471, 1491, 1511, 1531, 1551, 1571, 1591 and 1611 nm are filtered from the line (single direction).
SAR Release 9.0 OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-18 in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/
SAR Release 20.x OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-18 in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/
SAR Release 21.x OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-18 in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/
Expansion module with 2-port 10GigE XFPs for Network (Ring) connectivity. 10GigE switching between ports. XFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.
Conformal Coated Variant of Expansion module with 2-port 10GigE XFPs for Network (Ring) connectivity. 10GigE switching between ports. XFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.
2-port 10GigE Network connectivity (Ring) Card. 10GigE switching between ports. XFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.
Conformal Coated Variant of 2-port 10GigE Network connectivity (Ring) Card. 10GigE switching between ports. XFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.
SAR-8 Shelf V2 that accepts redundant DC-power feeds and up to 2 CSMs (V1 or V2) and up to 6 interface cards. Fan Module must be version associated with this V2 shelf. 6 Blanking plates included.
Conformal Coated SAR-8 Shelf V2 that accepts redundant DC-power feeds and up to 2 CSMs (V1 or V2) and up to 6 interface cards. Fan Module must be version associated with this V2 shelf. 6 Blanking plates included.
Fan Module with extended temperature Range. Installs into SAR-8 Shelf v2 (3HE06791AA). -48/+24 VDC
Conformal Coated Variant of Fan Module with extended temperature Range. Installs into SAR-8 Shelf v2 (3HE06791AA). -48/+24 VDC
Terminates 8 analog FXO interfaces to a central PBX. RJ45 connector access (2 ports/connector). This card is supported in both -48 VDC and +24 VDC systems.
Conformal Coated Variant of FXO card. Terminates 8 analog FXO interfaces to a central PBX. RJ45 connector access (2 ports/connector). This card is supported in both -48 VDC and +24 VDC systems.
1RU SAR-A with redundant -48V DC power feeds. Node has 4xRJ45/SFP combo GigE ports, 4xSFP GigE ports and 4xRJ45 FE ports. OS and other licenses sold separately.
1RU SAR-A with redundant -48V DC power feeds. Node has 4xRJ45/SFP combo GigE ports, 4xSFP GigE ports, 4xRJ45 FE ports and 8 T1/E1 ports. OS and other licenses sold separately.
SAR-H shelf with high voltage power input (88 - 300V AC or DC). Contains 4 x SFP GigE and 4 x RJ45 10/100/1000 PoE-capable ethernet ports and two module positions. AC power cord 3HE10447AA for Japan is sold separately. OS and other licenses sold separately.
SAR-H shelf with low voltage power input (+24/-48V DC). Contains 4 x SFP GigE and 4 x RJ45 10/100/1000 PoE-capable ethernet ports and two module positions. OS and other licenses sold separately.
Conformal Coated SAR-H shelf with high voltage power input (88 - 300V AC or DC). Contains 4 x SFP GigE and 4 x RJ45 10/100/1000 PoE-capable ethernet ports and two module positions. AC power cord 3HE10447AA for Japan is sold separately. OS and other licenses sold separately.
Conformal Coated SAR-H shelf with low voltage power input (+24/-48V DC). Contains 4 x SFP GigE and 4 x RJ45 10/100/1000 PoE-capable ethernet ports and two module positions. OS and other licenses sold separately.
External supply required to supply additional PoE power to the SAR-H. Can also be used to provide 48VDC (nominal) to other equipment via 9 pin D-sub connector. 85-265V AC or 88-300V DC input. 100W output power. -40 to +65C operation. IP40 enclosure rating. AC power cord 3HE10447AA for Japan is sold separately.
External supply required to supply additional PoE power to the SAR-H. Can be used to provide 48VDC (nominal) to other equipment via 9 pin D-sub connector. 20-75V DC input. 100W output power. -40 to +65C operation. IP40 enclosure rating.
1RU tray to house up to 2 x 3HE06970xA 100W power supplies
PSE Certified 100W High Voltage Power Supply – Requires a single 85-264VAC or 88-300VDC input, and provides a single 54VDC output (6' cable length) to provide power to one terminal of a 7705 SAR main chassis. This supply is DIN rail or wall/panel mountable with mounting hardware included.
Does not include AC cord. AC cords (3HE10447AA or 3HE10040AA or 3HE10041AA) needs to be ordered separately.

Combo module supporting 2 x T1/E1 ports with TDM and IP functionality and 2 x RS232 serial data ports. RJ45 connectors for interconnection to end equipment.
Conformal Coated Variant of Combo module supporting 2 x T1/E1 ports with TDM and IP functionality and 2 x RS232 serial data ports. RJ45 connectors for interconnection to end equipment.
Power injector card allows up to two MPR-e to draw power from SAR-8/18 chassis directly via copper 1000BaseT link . Lightning protection and voltage surge suppression is supported. -48VDC
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1471 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1491 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1511 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1531 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) OpticsModule, Single Mode Fiber (SMF), 40km, 1551 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1571 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1591 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1611 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
7750 SR12e DC Integrated Chassis bundle, includes the following;
(1) 3HE07440AB - 7750 SR12e Chassis
(3) 3HE07168AA - 7750 SR12e Fan Trays
FAN - 7750 SR12e Fan Tray
SROS RTP Performance Measurement per 1Gb/s of traffic license. Per system and per active ISA license, or per network license.
SROS Base WIFI aggregation License. This is a per system license.
SROS Diameter Credit Control License. This is a per system license.
SROS Multiple SSID Support License. This is a per system license.
SROS Inter-AP WIFI Mobility License. This is a per system license.
SROS WIFI Agg. 4K - shaped AP tunnels. This is a per system license.
SROS WIFI Agg. 8K - shaped AP tunnels. This is a per system license.
SROS WIFI Agg. 16K - shaped AP tunnels. This is a per system license.
SROS WIFI Agg. 32K - shaped AP tunnels. This is a per system license.
SROS WIFI Agg. 64K - shaped AP tunnels. This is a per system license.
SROS WIFI Agg. 128K - shaped AP tunnels. This is a per system license.
SROS WLAN to 3G/4G Interworking License. This is a per system license.
SROS WLAN to 3G/4G - 4K Bearers. This is a per system license.
SROS WLAN to 3G/4G - 8K Bearers. This is a per system license.
SROS WLAN to 3G/4G - 16K Bearers. This is a per system license.
SROS WLAN to 3G/4G - 32K Bearers. This is a per system license.
SROS WLAN to 3G/4G - 64K Bearers. This is a per system license.
SROS WLAN to 3G/4G - 128K Bearers. This is a per system license.
SROS WLAN to 3G/4G - 256K Bearers. This is a per system license.
SAR-Hc with redundant (20-75V) DC power feeds. DIN rail or panel mountable. Node has 6 10/100/1000 Mbps Ethernet ports (2 SFP, 2 RJ45, 2 POE RJ45), and 2 RS232 ports . OS and other licenses sold separately. DIN rail or panel mounting hardware sold separately.
SAR-Hc with conformal coating on internal PCBs. Has redundant (20-75V) DC power feeds. DIN rail or panel mountable. Node has 6 10/100/1000 Mbps Ethernet ports (2 SFP, 2 RJ45, 2 POE RJ45), and 2 RS232 ports . OS and other licenses sold separately. DIN rail or panel mounting hardware sold separately.
RTU - PoE/PoE+ license for PoE-capable ports in the SAR-W/H/Hc as well as the SAR-M Ethernet Module. One (1) OS License is required for each SAR-W/H/Hc/M in the network (not needed for PoE variants of the SAR-Wx).
RTU - IP Multicast license. One (1) OS License is required for each SAR in the network.
RTU - IP IEEE1588 PTP Time/Phase license. Applicable to 1588 Slave or Bourndary or Grandmaster Clocks. OAM performance can be improved with PTP time accuracy. One (1) OS License is required for each SAR in the network.

RTU - 7705 SAR-8/18 Multi Drop Data Bridging (MDDB) RTU License for use on the 3HE07942AA Integrated Services Card (ISC). One (1) MDDB License required for up to 25 SAR-8/18s in the network using the ISC card. Incremental license (3HE07354AH) required for each node beyond 25 in network. Supports a maximum of 16 bridges per card with each bridge supporting 30 branches. SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at <http://libra.app.alcatel-lucent.com/>

RTU - 7705 SAR-8/18 Multi Drop Data Bridging (MDDB) RTU License for additional nodes using the 3HE07942AA Integrated Services Card (ISC). One (1) MDDB License required for up each SAR-8/18 in the network using the ISC card beyond the 25 associated with the 3HE07354AF RTU- MDDB License. Supports a maximum of 16 bridges per card with each bridge supporting 30 branches. SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at <http://libra.app.alcatel-lucent.com/>

RTU - 7705 SAR-8/18 PCM Multidrop Bridging RTU License for use on the 3HE07942AA Integrated Services Card (ISC). One (1) PCM Multidrop License required for up to 25 SAR-8/18s in the network using the ISC card. Incremental license (3HE07354AK) required for each node beyond 25 in network. Supports a maximum of 16 bridges per card with each bridge supporting 30 branches (E1) or 24 branches (T1). SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at <http://libra.app.alcatel-lucent.com/>

RTU - 7705 SAR-8/18 PCM Multidrop Bridging RTU License for additional nodes using the 3HE07942AA Integrated Services Card (ISC). One (1) PCM Multidrop License (Additional Nodes) required for up each SAR-8/18 in the network using the ISC card beyond the 25 associated with the 3HE07354AJ RTU- PCM Multidrop Bridging License. Supports a maximum of 16 bridges per card with each bridge supporting 30 branches (E1) or 24 branches (T1). SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at <http://libra.app.alcatel-lucent.com/>

RTU - 7705 SAR-8/18 Voice Conference Bridging (VCB) RTU License for use on the 3HE07942AA Integrated Services Card (ISC). One (1) VCB License required for up to 25 SAR-8/18s in the network using the ISC card. Incremental license (3HE07354AP) required for each node beyond 25 in network. Supports a maximum of 16 bridges per card with each bridge supporting 30 branches (E1) or 24 branches (T1). SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at <http://libra.app.alcatel-lucent.com/>

RTU - 7705 SAR-8/18 Voice Conference Bridging (VCB) RTU License for additional nodes using the 3HE07942AA/BA Integrated Services Card (ISC). One (1) VCB Multidrop License (Additional Nodes) required for up each SAR-8/18 in the network using the ISC card beyond the 25 associated with the 3HE07354AN RTU- VCB License. Supports a maximum of 16 bridges per card with each bridge supporting 30 branches (E1) or 24 branches (T1). SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at <http://libra.app.alcatel-lucent.com/>

RTU – VPN Multicast license. One (1) OS License is required for each SAR in the network.

Kit contains DIN rail bracket and hardware to mount the SAR-Hc to a DIN rail from the rear of the chassis.

Kit contains DIN rail bracket and hardware to mount the SAR-Hc to a DIN rail from the side of the chassis.

7750 SR12e Chassis Spare. Includes; 7750 SR12e Chassis & Fan Filter.

7750 SR-12e LUG KIT contains the following;

#4AWG 1/4" with 0.625" spacing - Qty 18

7750 SR12e Air & APEQ Filter Qty 5

7750 SR12e Accessory Kit

Includes:

Mounting Hardware, Wrist Strap, 6' Null Cable DB9F - DB9F

SROS VPLS Service Right To Use License. A per system license. Allows the use of up to 64 VPLS service instances in one system (any mix of VPLS types).

Not controlled by this license: Number of SAPs, queues, policers, RTU for EVPN in VPLS instances.

SROS VPLS Service Right To Use License. A per system license. Allows the use of up to 512 VPLS service instances in one system (any mix of VPLS types).

Not controlled by this license: Number of SAPs, queues, policers, RTU for EVPN in VPLS instances.

SROS VPLS Service Right To Use License. A per system license. Allows the use of up to 2,000 VPLS service instances in one system (any mix of VPLS types).

Not controlled by this license: Number of SAPs, queues, policers, RTU for EVPN in VPLS instances.

<p>SROS VLL Service Right To Use License. A per system license. Allows the use of up to 256 terminating VLL service instances in one system. This license also adds the RTU for support of full scale dynamic multi-segment pseudowire routing (stitching). The RTU for statically configured pseudowire switching is also included, and each static switched VLL counts towards the 256 VLL limit.</p> <p><u>Not controlled by this license: Number of SAPs, queues or policers, RTU for EVPN in VLL instances.</u></p>
<p>SROS VLL Service Right To Use License. A per system license. Allows the use of up to 4,000 terminating VLL service instances in one system. This license also adds the RTU for support of full scale dynamic multi-segment pseudowire routing (stitching). The RTU for statically configured pseudowire switching is also included, and each static switched VLL counts towards the 4095 VLL limit.</p> <p><u>Not controlled by this license: Number of SAPs, queues or policers, RTU for EVPN in VLL instances.</u></p>
<p>SROS VLL Service Right To Use License. A per system license. Allows the use of up to 32,000 terminating VLL service instances in one system. This license also adds the RTU for support of full scale dynamic multi-segment pseudowire routing (stitching). The RTU for statically configured pseudowire switching is also included, and each static switched VLL counts towards the 32767 VLL limit.</p> <p><u>Not controlled by this license: Number of SAPs, queues or policers, RTU for EVPN in VLL instances.</u></p>
<p>SROS SAP Right To Use License. A per system license. Allows the use of up to 32767 SAPs across all services.</p> <p><u>Not controlled by this license: RTU for VLL,VPLS or VPRN service instances.</u></p>
<p>SROS basic cFlowd license. A per system license. Allows the use of all cFlowd functionality.</p>
<p>SROS VLL Service Right To Use License. A per system license. Allows the use of up to 64,000 terminating VLL service instances in one system. This license also adds the RTU for support of full scale dynamic multi-segment pseudowire routing (stitching). The RTU for statically configured pseudowire switching is also included, and each static switched VLL counts towards the 65535 VLL limit.</p> <p><u>Not controlled by this license: Number of SAPs, queues or policers, RTU for EVPN in VLL instances.</u></p>
<p>SROS 64K SAP Right To Use License. A per system license. Allows the use of up to 65535 SAPs across all services.</p> <p><u>Not controlled by this license: RTU for VLL,VPLS or VPRN service instances.</u></p>
<p>10Gb/s HD, environmentally hardened in IP65 rated, fan-less (-40°C to +65°C), with 5 GigE Ethernet ports (3 x SFP, 2 x RJ45). OS and other licenses sold separately.</p>
<p>10Gb/s HD, environmentally hardened in IP65 rated, fan-less (-40°C to +65°C), with 5 GigE Ethernet ports (3 x SFP, 2 x RJ45) and integrated GPS receiver and PoE+ port. OS and other licenses sold separately.</p>
<p>SROS VPLS Service Right To Use License. A per system license. Allows the use of up to 8,000 VPLS service instances in one system (any mix of VPLS types).</p> <p><u>Not controlled by this license: Number of SAPs, queues, policers , RTU for EVPN in VPLS instances.</u></p>
<p>OSP cabinet -48VDC incoming power surge protector, din rail mount. Min order Qty of 25 required on all orders.</p>
<p>Bracket to hold up to 16 Ethernet surge protectors with ground wire, used with ALP-7705/7210 5RU cabinet. Min order Qty of 25 required on all orders</p>
<p>low profile 12 position Fiber splice tray and termination tray for ALP-7705/7210 5RU cabinet. Min order Qty of 10 required on all orders</p>
<p>ALP-7705/7210 Cabinet battery Compartment to house batteries when the cabinet is fed with AC and the deployment requires battery hold up time. Min order Qty of 25 required on all orders</p>
<p>battery cable kit to hook up batteries from the rectifier to the battery string. Min order Qty of 25 required on all orders</p>
<p>ALP-7705/7210 cabinet pole mount kit required when mounting the cabinet to a pole. Min order Qty of 10 required on all orders</p>
<p>ALP-7705/7210 5RU Cabinet concrete Pad mounting pour in place anchor plate. Used in conjunction with a concrete pad installations. Min order Qty of 25 required on all orders</p>
<p>10-position DC distribution / GMT fuse panel.Used with DC input power. Min order Qty of 10 required on all orders</p>
<p>ACC - 7x50 Power Terminal Cover (2 pack).Only used on the SR-12</p>
<p>Kit contains brackets to wall mount or reverse rack mount a 7705 SAR-H.</p>
<p>SROS Software license to enable use of IPsec Multi-Chassis Redundancy feature. This is a per system and per active ISA1 license. Multiple of these RTUs could be bought to match the total number of ISA1 that need IPsec Multi-Chassis Redundancy support.</p>
<p>SROS Stateful Firewall License per 10Gbps. Per system and per active ISA license, or per network license.</p>
<p>Mounting bracket kit for individual SAR-W mounting to pole/wall. Hardware not included. This unit may not be required in all installation scenarios.</p>
<p>Ergonomic handles compatible with the SAR-W/Wx. Handles are removable/reusable. There are two handles per kit.</p>
<p>12m AC Power Cable for the SAR-W/Wx.</p>
<p>Weather proof kit for termination of Ethernet copper cables on the SAR-W/Wx. Includes five (5) cable terminations per kit. Not suitable for fiber terminations.</p>

Weather proof flexible kit for termination of both Ethernet fiber/copper on the SAR-W/Wx. Includes five (5) cable terminations per kit.
Accessory Kit - Dust Covers Qty 20 for SFP/SFP+
Accessory Kit - Dust Covers Qty 10 for XFP/QSFP+
1-port 40GBase SR4 QSFP+ Optics Module, 100m, MMF, MPO Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)
4-port OC3/STM1 or 1-port OC12/STM4 Card, with support for clear channel or channelization down to DS1/E1. In the OC3/STM1 mode, each port can be independently configured for the different services and access/network. In access mode, each port must be configured for TDM. In network mode, each port must be configured for MLPPP or POS. This card is supported in both -48 VDC & +24 VDC systems. SFPs sold separately.
SAR-O outdoor system for passive optical CWDM OADM of 4 wavelengths (1471/1491/1511/1531 nm) with an expansion port (including 1310 nm passthrough) over a dual fiber cable
Application resource card. Requires purchase of application-specific RTU - MDDDB LICENSE - 3HE07354AF, .RTU - MDDDB LICENSE (ADDITIONAL NODES) -3HE07354AH This card is supported in both -48 VDC and +24 VDC systems
Conformal Coated Variant of Application resource card. Requires purchase of application-specific RTU - MDDDB LICENSE - 3HE07354AF, .RTU - MDDDB LICENSE (ADDITIONAL NODES) -3HE07354AH This card is supported in both -48 VDC and +24 VDC systems
6 port (2 x 10G SFP+, 4 x 1G – SFP) Ethernet 10Gbps card. Optics (SFP, SFP+) are sold separately. This card is supported in both -48 VDC and +24 VDC systems.
Conformal Coated Variant of 6 port (2 x 10G SFP+, 4 x 1G – SFP) Ethernet 10Gbps card. Optics (SFP, SFP+) are sold separately. This card is supported in both -48 VDC and +24 VDC systems.
Kit contains bracket hardware for mounting the SAR-Hc to a panel from the rear of the chassis.
Kit contains bracket hardware for mounting the SAR-Hc to a panel from the side of the chassis.
SAR-8/18 card supporting an integrated GNSS receiver which can provide a PRC-traceable frequency, PRTC-traceable time of day clock and geographic location. It can be used in conjunction with integrated IEEE1588v2 for GM capabilities.-48/+24 VDC.
SAR-H GPS Receiver Module plus Integrated and Distributed 1588v2 GrandMasters
SAR-Wx Pole/Wall Mounting Bracket
SAR-Wx Strand Mounting Bracket
SAR-Wx GPS Antenna Mounting
SAR-Wx 0.35m GPS Cable
1.0/2.3 DIN right-angle plug at SAR-H/8/18, 7/16 DIN straight plug towards antenna
1.0/2.3 DIN right-angle plug at SAR-H/8/18, N-type straight plug towards antenna
SYS - 7210 SAS-T 12F 10T 4XFP system includes; 2 GB CPU memory (1) Fan Tray, (10) 10/100/1000 TX + Accepts(12) 100/1000 SFP + (4) XFP(s). Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP Extended Temperature Range system includes; 2 GB CPU memory (1) Fan Tray, (10) 10/100/1000 TX + Accepts(12) 100/1000 SFP + (4) XFP(s). Does not include 7210 SAS Operating Software or usage licenses.
CHAS - 7210 SAS-R6 CHASSIS SPARE
FAN - 7210 SAS-R6 Fan Tray
PEM - 7210 SAS-R6 -48V
SF/CPM - 7210 SAS-R6
ACC - 7210 SAS-R IMM Impedance Panel
ACC - 7210 SAS-R6 SF/CPM Impedance Panel
ACC - 7210 SAS-R6 PEM Impedance Panel
ACC - 7210 SAS-R6 Air Filter 5 pack
C-XMA Right To Use License Upgrade from LSR to IPCore for 6-port 40G C-XMA. RTU license is tied to the specific C-XMA (tied to the serial number) for which it is purchased.
1-port 100GBaseLR4 Low Power 10km CFP2 Optics Module, 10km, LC Connector, RoHS 6/6 compliant
SROS IBN Res 10K Subs - Right to Use (RTU) required for Application Assurance IBN rules for in-browser notification (IBN) for wifi DSM subscribers. One (1) of these RTUs is required for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per network license.
OSP cabinet AC incoming power surge protector. Min order Qty of 10 required on all orders
OSP cabinet 24VDC incoming power surge protector, din rail mount.Min order Qty of 25 required on all orders.
-48VDC OSP cabinet, with Heat Exchanger thermal system, for use with the 7210 SAS and 7705 SAR routers. AC compatible with AC to DC rectifier option. Min order Qty of 25 required on all orders

1-port 100GBase SR10 100 meter CFP2 Optics Module, MultiMode, MPO Connector, RoHS 6/6 compliant, 0/70C, Non-DDM Compliant
2-ports 1000BASE-BX10-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 10km, TX:1310 nm, RX: 1490 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, -40/85C
2-ports 1000BASE-BX10-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 10km, TX: 1490 nm, RX: 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, -40/85C
2-ports 1000BASE-BX40-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, TX:1310 nm, RX: 1490 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, -40/85C
2-ports 1000BASE-BX40-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, TX: 1490 nm, RX: 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, -40/85C
SYS - 7210 SAS-T 12F 10T 4XFP DC system includes; 2 GB CPU memory (1) 3HE08116AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE06336AB PS - 7210 SAS-T/Mxp ETR +24V (200W) DC Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP AC system includes; 2 GB CPU memory, (1) 3HE08116AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP DC system includes; 2 GB CPU memory (1) 3HE08116AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE04415AB PS-7210 SAS Mxp/T DC -48V PS (NON-ETR) 200W Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP AC Extended Temperature Range system includes; 2 GB CPU memory (1) 3HE08117AB SYS -7210 SAS-T 12F 10T 4XFP ETR (1) 3HE05580AB 7210 SAS (200W) AC ETR Power supply Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP Extended Temperature Range DC system includes; 2 GB CPU memory (1) 3HE08117AB SYS -7210 SAS-T 12F 10T 4XFP ETR (1) 3HE05581AB 7210 SAS -48V (200W) DC ETR Power supply Does not include 7210 SAS Operating Software or usage licenses..
SYS - 7210 SAS-T 12F 10T 4XFP Extended Temperature Range DC system includes; 2 GB CPU memory (1) 3HE08117AB SYS -7210 SAS-T 12F 10T 4XFP ETR (1) 3HE06336AB PS - 7210 SAS-T/Mxp ETR +24V (200W) DC Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP AC system includes; 2 GB CPU memory (1) 3HE08116AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt (1) 3HE00271AA CBL - AC PWR CBL 110V USA Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP AC system includes; 2 GB CPU memory (1) 3HE08116AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt (1) 3HE00271AD CBL - AC PWR CBL 110V UK Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP AC system includes; 2 GB CPU memory (1) 3HE08116AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt (1) 3HE00271AC CBL - AC PWR CBL 110V EUR Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP AC Extended Temperature Range system includes; 2 GB CPU memory (1) 3HE08117AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE05580AB 7210 SAS (200W) AC ETR Power supply (1) 3HE00271AA CBL - AC PWR CBL 110V USA Does not include 7210 SAS Operating Software or usage licenses.

SYS - 7210 SAS-T 12F 10T 4XFP AC Extended Temperature Range system includes; 2 GB CPU memory (1) 3HE08117AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE05580AB 7210 SAS (200W) AC ETR Power supply (1) 3HE00271AD CBL - AC PWR CBL 110V UK Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP AC Extended Temperature Range system includes; 2 GB CPU memory (1) 3HE08117AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE05580AB 7210 SAS (200W) AC ETR Power supply (1) 3HE00271AC CBL - AC PWR CBL 110V EUR Does not include 7210 SAS Operating Software or usage licenses.
Spare - 7750 SR SFM5-12e
7750 SR12e - Mini-SFM5-12e - SFM functionality
Spare - 7750 SR CPM5
Spare - 7750 SR SFM5-12
Spare - 7750 SR SFM5-7
Spare - SFM - 7450 ESS SFM5-12
Spare - SFM - 7450 ESS SFM5-7
Spare - CPM - 7450 ESS CPM5
7705 SAR-X with 2x10GE SFP+, 12x1GE (4xCombo SFP/RJ45 + 8x1G SFP) & 8 T1/E1. Accepts Redundant DC Power Input (+24V/-48V).
7705 SAR-X (Conformal Coated Variant) with 2x10GE SFP+, 12x1GE(4xCombo SFP/RJ45 + 8x1G SFP) & 8 T1/E1. Accepts Redundant DC Power Input (+24V/-48V).
Cable ASSM, QSFP+ to-QSFP+ Passive Direct Attach Cable (DAC), 1 meter length - package of 4
Cable ASSM, QSFP+ to-QSFP+ Passive Direct Attach Cable (DAC), 3 meter length - package of 4
Cable ASSM, QSFP+ to-QSFP+ Passive Direct Attach Cable (DAC), 7 meter length - package of 4
ACC - 7210 SAS E/M/T/Mxp DC-Power input connector 10 Pack
RTU - SAR-H Basic IPsec license. Including Encryption Throughput of 150 Mbps and Maximum of 25 IPsec Tunnels. One (1) OS License is required for each SAR-H in the network.
RTU - SAR-H Upgrade IPsec license. Upgrade Basic IPsec license to Full IPsec license. One (1) OS License is required for each SAR-H in the network.
RTU - SAR-H Full IPsec license. Including Maximum supported Encryption Throughput and Maximum supported IPsec Tunnels. One (1) OS License is required for each SAR-H in the network.
RTU - SAR-Hc Basic IPsec license. Including Encryption Throughput of 150 Mbps and Maximum of 25 IPsec Tunnels. One (1) OS License is required for each SAR-Hc in the network.
RTU - SAR-Hc Upgrade IPsec license. Upgrade Basic IPsec license to Full IPsec license. One (1) OS License is required for each SAR-Hc in the network.
RTU - SAR-Hc Full IPsec license. Including Maximum supported Encryption Throughput and Maximum supported IPsec Tunnels. One (1) OS License is required for each SAR-Hc in the network.
RTU - SAR-W Basic IPsec license. Including Encryption Throughput of 150 Mbps and Maximum of 10 IPsec Tunnels. One (1) OS License is required for each SAR-W in the network.
RTU - SAR-W Upgrade IPsec license. Upgrade Basic IPsec license to Full IPsec license. One (1) OS License is required for each SAR-W in the network.
RTU - SAR-W Full IPsec license. Including Maximum supported Encryption Throughput and Maximum supported IPsec Tunnels. One (1) OS License is required for each SAR-W in the network.
RTU - SAR-Wx Basic IPsec license. Including Encryption Throughput of 150 Mbps and Maximum of 25 IPsec Tunnels. One (1) OS License is required for each SAR-Wx in the network.
RTU - SAR-Wx Upgrade IPsec license. Upgrade Basic IPsec license to Full IPsec license. One (1) OS License is required for each SAR-Wx in the network.
RTU - SAR-Wx Full IPsec license. Including Maximum supported Encryption Throughput and Maximum supported IPsec Tunnels. One (1) OS License is required for each SAR-Wx in the network.
RTU - SAR-8 Basic IPsec license. Including Encryption Throughput of 250 Mbps and Maximum of 50 IPsec Tunnels. One (1) OS License is required for each SAR-8 in the network. Note: Additional licenses (3HE09302AA, 3HE09302BA, 3HE09302CA) required to enable hardware encryption
RTU - SAR-8 Upgrade IPsec license. Upgrade Basic IPsec license to Full IPsec license. One (1) OS License is required for each SAR-8 in the network. Note: Additional licenses (3HE09302AA, 3HE09302BA, 3HE09302CA) required to enable hardware encryption
RTU - SAR-8 Full IPsec license. Including Maximum supported Encryption Throughput and Maximum supported IPsec Tunnels. One (1) OS License is required for each SAR-8 in the network. Note: Additional licenses (3HE09302AA, 3HE09302BA, 3HE09302CA) required to enable hardware encryption

<p>RTU - SAR-18 Basic IPSec license. Including Encryption Throughput of 500 Mbps and Maximum of 50 IPSec Tunnels. One (1) OS License is required for each SAR-18 in the network. Note: Additional licenses (3HE09302AA, 3HE09302BA,3HE09302CA) required to enable hardware encryption</p>
<p>RTU - SAR-18 Upgrade IPSec license. Upgrade Basic IPSec license to Full IPSec license. One (1) OS License is required for each SAR-18 in the network. Note: Additional licenses (3HE09302AA, 3HE09302BA,3HE09302CA) required to enable hardware encryption</p>
<p>RTU - SAR-18 Full IPSec license. Including Maximum supported Encryption Throughput and Maximum supported IPSec Tunnels. One (1) OS License is required for each SAR-18 in the network. Note: Additional licenses (3HE09302AA, 3HE09302BA,3HE09302CA) required to enable hardware encryption</p>
<p>RTU - SAR-X Basic IPSec license. Including Encryption Throughput of 150 Mbps and Maximum of 25 IPSec Tunnels. One (1) OS License is required for each SAR-X in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>
<p>RTU - SAR-X Upgrade IPSec license. Upgrade Basic IPSec license to Full IPSec license. One (1) OS License is required for each SAR-X in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>
<p>RTU - SAR-X Full IPSec license. Including Maximum supported Encryption Throughput and Maximum supported IPSec Tunnels. One (1) OS License is required for each SAR-X in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>
<p>RTU – SAR-Ax Basic IPSec license. Including Encryption Throughput of 150 Mbps and Maximum of 25 IPSec Tunnels. One (1) OS License is required for each SAR-Ax. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>
<p>RTU – SAR-Ax Upgrade IPSec license. Upgrade Basic IPSec license to Full IPSec license. One (1) OS License is required for each SAR-Ax. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>
<p>RTU – SAR-Ax Full IPSec license. Including Maximum supported Encryption Throughput and Maximum supported IPSec Tunnels. One (1) OS License is required for each SAR-Ax. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>
<p>RTU – SAR-Hm/Hmc IPSec license. Including maximum supported encryption throughput available on one SAR-Hm/Hmc. One (1) OS License is required for each SAR-Hm/Hmc in the network.</p>
<p>SAR-Wx/W, 7450 ESS/7750 SR CPM5, XRS-16c/20/40 - CONSOLE CBL, 5 FT w RJ45 to DB9 adapter.</p>
<p>BNDL - 7210 SAS-R6 (1) 3HE08151AA CHAS - 7210 SAS-R6 CHASSIS SPARE (1) 3HE08154AB SF/CPM - 7210 SAS-R6 (1) 3HE08166AA ACC - 7210 SAS-R6 SF/CPM Impedance Panel (1) 3HE08152AA FAN - 7210 SAS-R6 Fan Tray (2) 3HE08153AA PEM - 7210 SAS-R6 -48V (5) 3HE08159AA ACC - 7210 SAS-R IMM Impedance Panel OS = 7210 SAS-R Base OS License Release 20.X Base OS license.</p>
<p>This is a per chassis license, valid for release 20.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services) to operate 7210 SAS-R6 and 7210 SAS-R12 chassis..</p> <p>It excludes the use of MPLS-TP and IP services (e.g. VPRNs and IES services).</p> <p>It must be also purchased for upgrade to release 20.X.</p> <p>One (1) Operating Software License is required for each 7210 SAS-R6 or 7210 SAS-R12 in the network. Includes two (2) 2GB Compact Flashes with the Operating Software</p>

OS – 7210 SAS-R Base OS License Release 21.X Base OS license.

This is a per chassis license, valid for release 21.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services) to operate 7210 SAS-R6 and 7210 SAS-R12 chassis..

It excludes the use of MPLS-TP and IP services (e.g. VPRNs and IES services).

It must be also purchased for upgrade to release 21.X.

One (1) Operating Software License is required for each 7210 SAS-R6 or 7210 SAS-R12 in the network. Includes two (2) 2GB Compact Flashes with the Operating Software

RTU – 7210 SAS-R IP Services License.

This is a per chassis license and is required for each 7210 SAS-R6 and 7210 SAS-R12 chassis. It enables support of IP services (e.g. VPRN, IES and L3 VPNs using BGP 3107).

RTU – 7210 SAS-R MPLS-TP Services License.

This is a per chassis license and is required for each 7210 SAS-R6 and 7210 SAS-R12 chassis. It enables MPLS-TP based Ethernet services (i.e. Epipe services).

RTU – 7210 SAS-R PTP/1588 & Timing Interfaces License.

This is a per chassis license and is required for each 7210 SAS-R6 and 7210 SAS-R12 chassis. It enables the following Timing interfaces and software – BITS, 1pps, 10MHz, ToD and PTP/1588.

NOTE: SyncE is available with the base OS software license and does not require a separate license.

SFM - 7750 SR SFM5-12e + CPM5

Bundle includes:

(1) 3HE08421AA - SFM - 7750 SR SFM5-12e

(1) 3HE08423AA - CPM - 7750 SR CPM5

SROS Software license to enable 1K IPsec IKEv2 Remote-Access Tunnels. Per network license.

SROS Software license to enable 10K IPsec IKEv2 Remote-Access Tunnels. Per network license.

SROS VPLS Service Right To Use License. A per system license. Allows the use of up to 40,000 VPLS service instances in one system (any mix of VPLS types).

Not controlled by this license: Number of SAPs, queues, policers

SROS VLL Service Right To Use License. A per system license. Allows the use of up to 192,000 terminating VLL service instances in one system. This license also adds the RTU for support of full scale dynamic multi-segment pseudowire routing (stitching). The RTU for statically configured pseudowire switching is also included, and each static switched VLL counts towards the 196607 VLL limit.

Not controlled by this license: Number of SAPs, queues or policers, RTU for EVPN in VLL instances.

SROS 256K SAP Right To Use License. A per system license. Allows the use of up to 262143 SAPs across all services.

Not controlled by this license: RTU for VLL,VPLS or VPRN service instances.

SROS Hybrid OpenFlow Switch license. A per system license. Allows configuration of Hybrid OpenFlow switch functionality for traffic steering subject to limitations imposed by the particular SROS release deployed and the capabilities of the deployed hardware in the system

Rear attachable tray for SAR-A/SAR-Ax (3HE06797AA, 3HE06796AA, 3HE10329AA) designed to hold two 100W Power Supplies (3HE06972AB).

ACC - 7210 R6 ETSI Cabinet & Cable Management bracket (This includes sufficient brackets to mount 1 Chassis)

SROS Software license to enable use of IP Tunneling Applications (GRE, IP in IP) per 10Gbps capacity. Per network or per system and active ISA license.

IMM - 7210 SAS-R-b 10SFP - 1SFP+

IMM - 7210 SAS-R-b 2SFP+

IMM - 7210 SAS-R-b 4SFP+

IMM - 7210 SAS-R-b 11SFP/22cSFP

IMM - 7210 SAS-R-b 16TX

ACC - 7210 SAS-R6 DC-Power input connector 10 Pack

6 port Ethernet Module (2xFE SFP ports, 4xGE (2xRJ.5, 2xCombo(SFP, RJ.5) for SAR-M with Poe/PoE+ capability. PoE RTU sold separately

C-XMA Right To Use License Upgrade from LSR to IPCore for 72-port 1GE C-XMA. RTU license is tied to the specific C-XMA (tied to the serial number) for which it is purchased.

<p>SSF VSR-RR Route Reflector – Level 1 - Software Subscription Fee (SSF) that allows for the upgrade of the VSR-RR software to any currently available software releases, including new major releases, as long as the annual support contract is in effect. One (1) Level 1 SSF is required for each instance of the level 1 VSR-RR purchased. The SSF must be purchased at the time the VSR-RR license is purchased and must be renewed annually to retain access to new versions of the VSR-RR software. VSR-RR license is sold for the specified SROS release. Licenses for different releases must be purchased separately, unless covered by an SSF for VSR-RR</p>
<p>SSF VSR-RR Route Reflector – Level 2 - Software Subscription Fee (SSF) that allows for the upgrade of the VSR-RR software to any currently available software releases, including new major releases, as long as the annual support contract is in effect. One (1) Level 2 SSF is required for each instance of the level 2 VSR-RR purchased. The SSF must be purchased at the time the VSR-RR license is purchased and must be renewed annually to retain access to new versions of the VSR-RR software. VSR-RR license is sold for the specified SROS release and is not covered by any other Nokia software support contract. Licenses for different releases must be purchased separately</p>
7750 SR-a4 4-slot Chassis Spare (Includes Air Filter)
7750 SR-a8 8-slot Chassis Spare (Includes Air Filter)
7750 SR-a4 fan Tray Module Spare
7750 SR-a8 fan Tray Module Spare
7750 SR-a Family -48v DC Power Supply Unit.
7750 SR-a Family AC Power Supply Unit. Cables Purchased Separately.
7750 SR-a Control & Processor Module (CPM) with 6-core 800Mhz CPU and 4GB DRAM.
7750 SR-a Control & Processor Module (CPM) with 6-core 800Mhz CPU and 8GB DRAM.
7750 SR-a 100Gbps Input Output Module (IOM-a). Includes License for Layer 3 with High Queuing (L3HQ) Features Set.
7750 SR-a 100Gbps Input Output Module (IOM-a). Includes License for Layer 3 with Basic Queuing (L3BQ) Features Set.
7750 SR-a 100Gbps Input Output Module (IOM-a). Includes License for Layer 2 with High Queuing (L2HQ) Features Set.
10-port 10GE SFP+ MDA-a XP for the 7750 SR-a family. Optics Module must be purchased separately.
2-port 10GE SFP+ and 12-port GE SFP Combo MDA-a for the 7750 SR-a family. Optics Module must be purchased separately.
20-port 10/100/1000 TX RJ45 MDA-a for the 7750 SR-a family.
22-port GE SFP/44-port GE cSFP MDA-a for the 7750 SR-a family. Optics Module must be purchased separately.
4-port 10GE SFP+ MDA-a For The 7750 SR-a Family. Optics Module must be purchased separately.
<p>DC BNDL - 7750 SR-a4. Non-Redundant Bundle Includes:</p> <ul style="list-style-type: none"> (1) 3HE09195AA - CHAS - 7750 SR-a4 CHASSIS (Including filter), (1) 3HE09197AA - FAN - 7750 SR-a4 Fan Tray, (1) 3HE09199AA - PSU - 7750 SR-a DC -48v, (1) 3HE09201AA - CPM - 7750 SR-a, (4) 3HE09417AA - ACC - 7750 SR-a CPM/MDA Impedance Panels, (3) 3HE09419AA - ACC - 7750 SR-a PSU Impedance Panels.
<p>DC BNDL - 7750 SR-a4. Non-Redundant Bundle Includes:</p> <ul style="list-style-type: none"> (1) 3HE09195AA CHAS - 7750 SR-a4 CHASSIS (Including filter), (1) 3HE09197AA FAN - 7750 SRa4 Fan Tray, (1) 3HE09199AA PSU - 7750 SR-a DC -48v, (1) 3HE09201AB CPM - 7750 SR-a CPM 8GB, (4) 3HE09417AA ACC - 7750 SR-a CPM/MDA Impedance Panels, (3) 3HE09419AA ACC - 7750 SR-a PSU Impedance Panels.
<p>AC BNDL - 7750 SR-a4. Non-Redundant Bundle Includes:</p> <ul style="list-style-type: none"> (1) 3HE09195AA - CHAS - 7750 SR-a4 CHASSIS (Including filter), (1) 3HE09197AA - FAN - 7750 SR-a4 Fan Tray, (1) 3HE09200AA - PSU - 7750 SR-a AC, (1) 3HE09201AA - CPM - 7750 SR-a, (4) 3HE09417AA - ACC - 7750 SR-a CPM/MDA Impedance Panels, (3) 3HE09419AA - ACC - 7750 SR-a PSU Impedance Panels.
<p>AC BNDL - 7750 SR-a4. Non-Redundant Bundle Includes:</p> <ul style="list-style-type: none"> (1) 3HE09195AA CHAS - 7750 SR-a4 CHASSIS (Including filter), (1) 3HE09197AA FAN - 7750 SRa4 Fan Tray, (1) 3HE09200AA PSU - 7750 SR-a AC, (1) 3HE09201AB CPM - 7750 SR-a CPM 8GB, (4) 3HE09417AA ACC - 7750 SR-a CPM/MDA Impedance Panels, (3) 3HE09419AA ACC - 7750 SR-a PSU Impedance Panels

<p>DC BNDL - 7750 SR-a8 Non-Redundant Bundle Includes;</p> <p>(1) 3HE09196AA - CHAS - 7750 SR-a8 CHASSIS (includes filter),</p> <p>(1) 3HE09198AA - FAN - 7750 SRa8 Fan Tray,</p> <p>(2) 3HE09199AA - PSU - 7750 SR-a DC -48V,</p> <p>(1) 3HE09201AA - CPM - 7750 SR-a,</p> <p>(8) 3HE09417AA - ACC - 7750 SR-a CPM/MDA Impedance Panels,</p> <p>(2) 3HE09418AA - ACC - 7750 SR-a PSU Impedance Panels,</p> <p>(1) 3HE09419AA - ACC - 7750 SR-a IOM Impedance Panel</p>
<p>DC BNDL - 7750 SR-a8 Non-Redundant Bundle Includes;</p> <p>(1) 3HE09196AA CHAS - 7750 SR-a8 CHASSIS (includes filter),</p> <p>(1) 3HE09198AA FAN - 7750 SRa8 Fan Tray,</p> <p>(2) 3HE09199AA PSU - 7750 SR-a DC -48V,</p> <p>(1) 3HE09201AB CPM - 7750 SR-a CPM 8GB,</p> <p>(8) 3HE09417AA ACC - 7750 SR-a CPM/MDA Impedance Panels,</p> <p>(2) 3HE09418AA ACC - 7750 SR-a PSU Impedance Panels,</p> <p>(1) 3HE09419AA ACC - 7750 SR-a IOM Impedance Panel</p>
<p>AC BNDL - 7750 SR-a8 Non-Redundant Bundle Includes:</p> <p>(1) 3HE09196AA - CHAS - 7750 SR-a8 CHASSIS (includes filter),</p> <p>(1) 3HE09198AA - FAN - 7750 SRa8 Fan Tray,</p> <p>(2) 3HE09200AA - PSU - 7750 SR-a -AC,</p> <p>(1) 3HE09201AA - CPM - 7750 SR-a,</p> <p>(8) 3HE09417AA - ACC - 7750 SR-a CPM/MDA Impedance Panels,</p> <p>(2) 3HE09418AA - ACC - 7750 SR-a PSU Impedance Panels,</p> <p>(1) 3HE09419AA - ACC - 7750 SR-a IOM Impedance Panel</p>
<p>AC BNDL - 7750 SR-a8 Non-Redundant Bundle Includes:</p> <p>(1) 3HE09196AA CHAS - 7750 SR-a8 CHASSIS (includes filter),</p> <p>(1) 3HE09198AA FAN - 7750 SRa8 Fan Tray,</p> <p>(2) 3HE09200AA PSU - 7750 SR-a -AC,</p> <p>(1) 3HE09201AB CPM - 7750 SR-a CPM 8GB,</p> <p>(8) 3HE09417AA ACC - 7750 SR-a CPM/MDA Impedance Panels,</p> <p>(2) 3HE09418AA ACC - 7750 SR-a PSU Impedance Panels,</p> <p>(1) 3HE09419AA ACC - 7750 SR-a IOM Impedance Panel</p>
<p>7705 SAR-X Air Filter Media replacement kit (10 pack)</p>
<p>RTU - SAR-H Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-H node. One (1) OS License is required for each SAR-H in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>
<p>RTU - SAR-Hc Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-Hc node. One (1) OS License is required for each SAR-Hc in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>
<p>RTU - SAR-W Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-W node. One (1) OS License is required for each SAR-W in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>
<p>RTU - SAR-Wx Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-Wx node. One (1) OS License is required for each SAR-Wx in the network.</p>
<p>RTU - SAR-8 Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-8 node. One (1) OS License is required for each SAR-8 in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p> <p>Note: Additional licenses (3HE09302AA, 3HE09302BA,3HE09302CA) are required to enable hardware encryption on the SAR-8.</p>
<p>RTU - SAR-18 Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-18 node. One (1) OS License is required for each SAR-18 in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p> <p>Note: Additional licenses (3HE09302AA, 3HE09302BA,3HE09302CA) are required to enable hardware encryption on the SAR-18.</p>

<p>RTU - SAR-X Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-X node. One (1) OS License is required for each SAR-X in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>
<p>RTU - SAR-Ax Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-H node. One (1) OS License is required for each SAR-Ax in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/</p>
<p>RTU - SAR-Hm/Hmc Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-Hm node. One (1) OS License is required for each SAR-Hm/Hmc in the network.</p>
<p>ASL VSR Standard NGE 10Gbps - Application Software License (ASL) is required to enable up to 10Gbps (Full Duplex, for IMIX traffic distribution) of VSR Network Group Encryption (NGE) throughput. One (1) of these ASLs is required for every 10Gbps of NGE traffic required. Multiple instances may be applied to a single VSR to allow the desired throughput.</p>
<p>7750 SR SFM5-12 & CPM5, one (1) required per 7750 SR12 slot Shelf, up to two (2) per 7750 SR12 slot Shelf for CPU and fabric redundancy Bundle includes; (1) 3HE08428AA - SFM - 7750 SR SFM5-12 (1) 3HE08423AA - CPM - 7750 SR CPM5</p>
<p>7750 SR SFM5-7 & CPM5, one (1) required per 7750 SR7 slot Shelf, up to two (2) per 7750 SR7 slot Shelf for CPU and fabric redundancy Bundle includes; (1) 3HE08429AA - SFM - 7750 SR SFM5-7 (1) 3HE08423AA - CPM - 7750 SR CPM5</p>
<p>7450 ESS SFM5-12 & CPM5, one (1) required per 7450 ESS-12 slot Shelf, up to two (2) per 7450 ESS-12 slot Shelf for CPU and fabric redundancy Bundle includes; (1) 3HE08430AA - SFM - 7450 ESS SFM5-12 (1) 3HE08432AA - CPM - 7450 ESS CPM5</p>
<p>7450 ESS-7 SFM5-7 & CPM5, one (1) required per 7450 ESS-7 slot Shelf, up to two (2) per 7450 ESS-7slot Shelf for CPU and fabric redundancy Bundle Includes: (1) 3HE08431AA - SFM - 7450 ESS SFM5-7 (1) 3HE08432AA - CPM - 7450 ESS CPM5</p>
<p>SROS Software license to enable use of the ISA2 for IPsec Tunneling Applications, this is a per system and per active ISA2 license.</p>
<p>SROS Software license to enable use of IPsec Multi-Chassis Redundancy feature. This is a per system and per active ISA2 license. Multiple of these RTUs could be bought to match the total number of ISA2 that need IPsec Multi-Chassis Redundancy support.</p>
<p>SROS Enhanced Subscriber Management (ESM) subscriber-host license for up to 256K subscriber-hosts. This is a per system license. Multiple of these RTUs could be bought to match the total number of subscribers targeted to be supported on the chassis.</p>
<p>SROS Selective offload with single IP. This is a per system license.</p>
<p>SROS WIFI-GW Inter-chass Redundancy. This is a per system license.</p>
<p>SROS WIFI Migrant User Support. This is a per system license.</p>
<p>SROS WIFI 256K migrant Users. This is a per system license.</p>
<p>SROS WIFI 512K migrant Users. This is a per system license.</p>
<p>SROS WIFI 1M migrant Users. This is a per system license.</p>
<p>SROS WIFI 2M migrant Users. This is a per system license.</p>
<p>SROS Distributed Subscriber Management (DSM) base license. This base DSM license is required for using the subscriber management features implemented on MS-ISA on 7750 platforms for IPoE subscribers. This is a per system license.</p>
<p>SROS 64K DSM hosts.This is a per system license.</p>
<p>SROS 128K DSM hosts. This is a per system license.</p>
<p>SROS 256K DSM hosts. This is a per system license.</p>
<p>SROS 512K DSM hosts. This is a per system license.</p>
<p>SROS 1M DSM hosts. This is a per system license.</p>
<p>SROS 2M DSM hosts. This is a per system license.</p>

Encryption LICENSE for 3HE06151AC 8 PORT GE SFP CARD V3. One (1) License needed per card performing packet encryption and/or decryption. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
Encryption LICENSE for 3HE06153AC 1 PORT 10GE / 10 PORT 1GE 10G-CARD V2. One (1) License needed per card performing packet encryption and/or decryption. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
Encryption LICENSE for 3HE07943AA 2P 10GE+4P GE 10G ETH CARD. One (1) License needed per card performing packet encryption and/or decryption. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
Fast ETHERNET module supporting 4xRJ45 10/100 ethernet data ports .
Conformal Coated Variant of Fast ETHERNET module supporting 4xRJ45 10/100 ethernet data ports .
1-port 10GBASE-SR Small Form-Factor Pluggable+ (SFP+) Optics Module, 850 nm, 26 to 300 meters, LC Connector, RoHS 6/6 compliant, -40/85C
1-port 10GBASE-LR Small Form-Factor Pluggable+ (SFP+) Optics Module, Single Mode Fiber (SMF), 10km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, -40/85C
1-port 10GBASE-ER Small Form-Factor Pluggable+ (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1550 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, -40/85C
1-port 10GBASE-ZR Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 80km, 1550nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, -40/85C
ASL R21 VSIM Simulator - Application Software License (ASL) supporting the VSIM functionality. One (1) ASL is required for each VSIM system, independent of the number of virtual machines that form the system. The VSIM supports most functionality of all 7x50 router HW and is intended to be used to test new SROS functionality in a release and or to test deployment architectures in a lab setting. The VSIM is intended to be used as a lab tool only and should not be used in a production or customer facing role. The ASL allows a forwarding rate of 250 packets per second per interface. The VSIM product carries limited technical support and software defects should be replicated on a hardware based 7x50 node before a customer defect report can be opened. A unique software license key is required to operate each individual VSIM system. The VSIM license is sold for the specified SROS release and is not covered by any other Nokia software support contract. Licenses for <u>different releases must be purchased separately</u>
ETHERNET CABLE WITH RJ.5 AND RJ-45 (6M) for use with 3HE10113AA
ETHERNET CABLE WITH RJ.5 AND RJ-45 (20M) for use with 3HE10113AA
ETHERNET CABLE WITH RJ.5 AND RJ-45 (50M) for use with 3HE10113AA
7750 SR-a Slot Filler/Impedance Panel for unused CPM or MDA slots.
7750 SR-a Slot Filler/Impedance Panel for unused IOM slots.
7750 SR-a Slot Filler/Impedance Panel for unused PSU slots.
7750 SR-a4 Air Filter 5-Pack
ACC - 7750 SR-a8 AIR FILTER-5 pack
APEQ-DC-2200-2800 Power Equalizer Module
APEQ-AC-3000 Power Equalizer Module
7210 SAS-K 2F2T1C Ethernet system includes: (1) 7210 SAS + AC Power Adapter (No AC power cable included), (2) 10/100/1000 TX + Accepts(2) 1000 SFP + 1 Combo, Does not include 7210 SAS Operating Software
7210 SAS-K 2F2T1C Ethernet system Extended Temperature Range includes: (1) 7210 SAS-K Does not include a power supply, (2) 10/100/1000 TX + Accepts(2) 1000 SFP + 1 Combo, Does not include 7210 SAS Operating Software
CHAS - 7210 SAS-R12 CHASSIS SPARE
FAN - 7210 SAS-R12 Fan Tray
PEM - 7210 SAS-R12 -48V
SF/CPM - 7210 SAS-R12
PS 7210 SAS-R AC Power shelve
PS 7210 SAS-R AC Power modules
1-port 100BASE-FX Small Form-Factor Pluggable (SFP) Optics Module, Multimode Fiber (SMF), 2 km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C

OS - 7210 SAS-T Release 20.X Base OS. This is a per chassis license, valid for release 20.XRx. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services). It excludes the use of MPLS-TP and IP services (e.g. VPRNs and IES services). It must also be purchased to upgrade to release 20.X. Includes one (1) programmed 2GB Compact Flash cards with the Operating Software.
OS - 7210 SAS-T Release 21.X Base OS. This is a per chassis license, valid for release 21.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services). It excludes the use of MPLS-TP and IP services (e.g. VPRNs and IES services). It must also be purchased to upgrade to release 21.X. Includes one (1) programmed 2GB Compact Flash cards with the Operating Software.
Power Supply Unit (PSU) - 7750 SR-e -48V DC
Power Supply Unit (PSU)PSU - 7750 SR-e AC PSU
License to upgrade a 3HE09202CA L2HQ IOM-a to a 3HE09202BA L3BQ Feature set.
License to upgrade a 3HE09202BA L3BQ IOM-a to a 3HE09202AA L3HQ Feature set.
License to upgrade a 3HE09202CA L2HQ IOM-a to a 3HE09202AA L3HQ Feature set.
RTU – 7210 SAS-T IP Services License. This is a per chassis license. It enables support of IP services (e.g. VPRN, IES and L3 VPNs using BGP 3107).
RTU – 7210 SAS-T MPLS-TP Services License. This is a per chassis license. It enables MPLS-TP based Ethernet services (i.e. Epipe services).
RTU – 7210 SAS-T PTP/1588 & Timing Interfaces License. This is a per chassis license. It enables the following Timing interfaces and software – BITS, 1pps, 10MHz, ToD and PTP/1588. NOTE: SyncE is available with the base OS software license and does not require a separate license.
ACC - 7750/7705/7210 Vertical Rack Mount 300mm
ACC - 7750/7705/7210 Cable Management Tray (Fits the vertical rack mount)
7750 SR IOM4-e Baseboard. Accepts up to 2 MDA-e Full Service Routing Functionality, Full Queuing, hierarchical policing, IPv4/IPv6 routing services. Available upgrades/licenses: VPRN
7750 SR IOM4-e Baseboard. Accepts up to 2 MDA-e Includes "Layer-3 basic Queuing" IMM Software License/functionality for full IPv4/IPv6 routing services. Limited to 8 ingress and 8 egress queues per port. Does not include Hierarchical Policers. Available upgrades/licenses: VPRN, upgrade to L3HQ
7750 SR IOM4-e Baseboard. Accepts up to 2 MDA-e Includes "Layer-2 High Queuing" IMM Software License/functionality for full ESS functionality which includes the use of full queuing and policing with layer-2 services. Excludes use of multicast routing protocol or services, IPv6 routing services, VPRN services (including IPv4 and IPv6 VPNs), network interfaces when installed in a chassis running the above mentioned restricted services. Available upgrades/licenses: upgrade to L3HQ
7750 SR 10-port 10GBASE MDA-e. Accepts ten (10) SFP+ 10GBase Optics Modules.
A mechanical Rack/Cabinet Mounting Kit for SAR-W and SAR-O. Can be used in 19 inch or 23 inch racks.
PS 7210 SAS-R AC Power shelve impedance panel
RTU - SAR-8/18H/Hc/Wx/X Basic Firewall license. One (1) OS License is required for each SAR-8/18/H/Hc/Wx/X in the network. Note: additional hardware firewall RTU is needed for HW performing firewall functionality.

Firewall LICENSE for 8 PORT GE SFP CARD (All versions). One (1) License needed per card performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
Hardware Firewall LICENSE for 2 PORT 10GE XFP CARD. One (1) License needed per card performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
Hardware Firewall LICENSE for Packet Microwave CARD. One (1) License needed per card performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
Hardware Firewall LICENSE for 1 PORT 10GE / 10 PORT 1GE 10G-CARD (All versions). One (1) License needed per card performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
Hardware Firewall LICENSE for 6 PORT 10GE CARD (3HE06789AA, 3HE06789BA). One (1) License needed per card performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
Hardware Firewall LICENSE for SAR-H. One (1) License needed per SAR-H performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality..
Hardware Firewall LICENSE for SAR-Hc. One (1) License needed per SAR-Hc performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
Hardware Firewall LICENSE for SAR-Wx. One (1) License needed per SAR-Wx performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
Hardware Firewall LICENSE for SAR-X. One (1) License needed per SAR-X performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
Hardware Firewall LICENSE for SAR-Ax. One License needed per SAR-Ax performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
ACC - 7210 SAS-K AC Non-ETR Power Cable - 5 pack - United States / Canada / South America
PS - 7210 SAS-K AC Non-ETR Universal Power Supply - 5 pack
Suits 7210 SAS-K 5 port device only
PS - 7210 SAS-K AC Non-ETR Universal Power Supply - (1)
Suits 7210 SAS-K 5 port device only
7750 SR 1-port 100GBASE MDA-e. Accepts one (1) CFP2 100GBase Optic Module.
ACC - Dust Cover - CFP2 (x4)
ACC - 7210 SAS-K 2F2T1C & 2F4T6C rack mount, fits two side by side 7210 SAS-K5 or a single K12 and their AC power supply in a single RU 19" rack
ACC - 7210 SAS-M/Mxp/T 19" rack mount (5 set pack)
SROS URL Filter Res 10k Subs - Right to Use (RTU) required for Application Assurance local list URL filtering for residential (ESM or transit-AA) subscribers. One (1) of these RTUs is required for URL filtering for every increment of 10,000 subscribers.s. Multiple instances may be applied to allow the desired scale. Per Network license.
SROS URL Filter 10 Gbps - Right to Use (RTU) required for Application Assurance local list URL filtering for aggregate traffic without subscriber context. One (1) of these RTUs is required for URL filtering on every increment of 10 Gbps traffic. Required only if the per-subscriber URL filter RTU is not purchased. Multiple instances may be applied to allow the desired scale. Per Network license.
Compact Flash dust cover for the SF/CPM2/3/4 for cf1 & cf2 slots, 10 pack
Compact Flash dust cover for the CPM5 10 pack
Compact Flash cover for CPM-a 10pkg
SROS URL Filter Wifi 10k Subs - Right to Use (RTU) required for Application Assurance local list URL filtering for Wifi DSM subscribers. One (1) of these RTUs is required for URL filtering for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per Network license.
RTU - Enable FEC/G.709 support per 6x10GE, 10x10GE or 1x100GE MDA-e
RTU AA ICAP Control Res 10k Subs - Right to Use (RTU) required for Application Assurance ICAP session control for residential (ESM and transit-AA) subscribers. One (1) of these RTUs is required for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per Network license.
SROS ID and CTL Wifi 10k Subs - Right to Use (RTU) required for Application Assurance traffic identification and control for wifi DSM subscribers. One (1) of these RTUs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.
SROS IBN Wifi 10K Subs - Right to Use (RTU) required for Application Assurance IBN rules for in-browser notification (IBN) for wifi DSM subscribers. One (1) of these RTUs is required for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per Network license.
SROS 3M DSM hosts. This is a per system license.
SROS 4M DSM hosts. This is a per system license.
SROS 5M DSM hosts. This is a per system license.
SROS 6M DSM hosts. This is a per system license.

ACC - 7210 SAS-K 2F4T6C ETR wall mount, fits one 7210 SAS-K 2F4T6C ETR and its power supplies
PS - 7210 SAS-K (5) ETR AC power supply (Can also be used in the 7210 SAS-K Non-ETR)
PS - 7210 SAS-K (5) ETR -48V DC power supply (Can also be used in the 7210 SAS-K Non-ETR)
Includes a single 6 ft (1.8M) long AC ETR auto-Lock Power Cord (NEMA 5-15P to IEC 320-C13). Can be used for North American deployments with SAR-X or SAR-H.
Includes a single 8.2 ft (2.5M) long AC ETR auto-Lock Power Cord (Schuko CEE 7/7 to IEC 320-C13). Can be used for European deployments with SAR-X or SAR-H.
SYS - 7210 SAS-Mxp 22F 2C 4SFP+ system includes; 2 GB CPU memory (1) Fan Tray, Accepts (22) 100/1000 SFP + (2) Combo ports + (4) SFP+
Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-Mxp 22F 2C 4SFP+ Extended Temperature Range system includes; 2 GB CPU memory, (1) Fan Tray, Accepts(22) 100/1000 SFP + (2) Combo ports + (4) SFP+
Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-Mxp 22F 2C 4SFP+ Extended Temperature Range, Conformal Coated system includes; 2 GB CPU memory, (1) Fan Tray, Accepts(22) 100/1000 SFP + (2) Combo ports + (4) SFP+
Does not include 7210 SAS Operating Software or usage licenses.
Must be used with Conformal Coated Power Supply to maximize benefit of CC.
2-port 10/100/1000BASE-T Compact Small Form-Factor Pluggable (SFP) Copper Module, Cat5, RJ.5 Connector, RoHS 6/6 compliant.
ACC 7750 SR-12e AC bezel
1-port OC-3/STM-1 SFP ,OC-3/STM-1 TSOP over GE, IR-1 / I-1, Single Mode Fiber (SMF), 15-21km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
1-port OC-12/STM-4 SFP ,OC-12/STM-4 TSOP over GE, IR-1 / I-1, Single Mode Fiber (SMF), 15-21km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
SROS ICAP Control Wifi 10k Subs - Right to Use (RTU) required for Application Assurance ICAP session control for Wifi DSM subscribers. One (1) of these RTUs is required for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per Network license.
OS - 7210 SAS-K 2F1C2T, Release 20.X Base OS license / Native Ethernet L2 VPNs license. This license is required for both ETR and non-ETR variants.
This is a per chassis license valid for release 20.X. It provides the Base OS and includes support for native Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP.
It must also be purchased for upgrade to release 20.X. It will shipped on a SD Card.
OS - 7210 SAS-K 2F1C2T, Release-21.X Base OS license / Native Ethernet L2 VPNs license.
This license is required for both ETR and non-ETR variants.
This is a per chassis license valid for release 21.X. It provides the Base OS and includes support for native Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP.
It must also be purchased for upgrade to release 21.X. It will shipped on a SD Card.
PS - 7210 SAS-K (5) ETR +24V DC power supply (Can also be used in the 7210 SAS-K Non-ETR)
ACC - 7750 SR-e CCM-e Impedance Panel Qty 1
ACC - 7750 SR-e CPM-e Impedance Panel Qty 1
ACC - 7750 SR-e IOM-e Impedance Panel Qty 1
ACC - 7750 SR-1e Air Filters (5 pack)
ACC - 7750 SR-2e Air Filters (5 pack)
ACC - 7750 SR-3e Air Filters (5 pack)
7750 SR-1e Chassis Spare. Includes; 7750 SR-1e Chassis & Fan Filter
7750 SR-2e Chassis Spare. Includes; 7750 SR-2e Chassis & Fan Filter
7750 SR-3e Chassis Spare. Includes; 7750 SR-3e Chassis & Fan Filter
FAN - 7750 SR-1e Fan Tray
FAN - 7750 SR-2e Fan Tray
FAN - 7750 SR-3e Fan Tray
CCM - 7750 SR-e CCM-e
CPM - 7750 SR-e CPM-e

7750 SR IOM-e Baseboard.
Full Service Routing Functionality, Full Queuing, hierarchical policing, IPv4/IPv6 routing services. Available upgrades/licenses: VPRN
7750 SR IOM-e Baseboard.
Includes "Layer-2 High Queuing" IMM Software License/functionality for full ESS functionality which includes the use of full queuing and policing with layer-2 services.
Excludes use of multicast routing protocol or services, IPv6 routing services, VPRN services (including IPv4 and IPv6 VPNs), network interfaces when installed in a chassis running the above mentioned restricted services. Available upgrades/licenses: upgrade to L3HQ.
7750 SR IOM-e Baseboard.
Includes "Layer-3 basic Queuing" IMM Software License/functionality for full IPv4/IPv6 routing services. Limited to 8 ingress and 8 egress queues per port. Does not include Hierarchical Policers. Available upgrades/licenses: VPRN, upgrade to L3HQ
ACC - MDA-e & MDA-e-XP Impedance Panel Qty 1
7210 SAS-Sx SONET/SDH satellite system can be configured as a 4-port OC3/STM1 or 1-port OC12/STM4, with support for channelization to DS1/E1. The system is managed by the 7750 SR host to provide TDM services on access.
1RU SAR-Ax with redundant DC power feeds (-48V/+24V), 12x1GE (4 RJ45/SFP combo, 8 SFP) ports and an integrated GNSS. It supports built-in Control/Switch functionality. OS and other licenses sold separately.
Includes two CPX Modules and one 19 inch 1RU CPX chassis to hold up to 8 CPX modules. The SPD kit is required to meet IEEE1613/IEC61850-3 surge requirements on SAR-18 and SAR-8
CPX Defender module designed to fit in the CPX 1 RU Chassis, with 3 mode protection.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1471 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1491 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1511 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1531 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1551 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1571 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1591 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1611 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
SYS - 7210 SAS-Mxp 22F 2C 4SFP+ System includes; 2 GB CPU memory (1) 3HE10075AB SYS-7210 SAS-Mxp 22F2C4SFP+
(1) 3HE06336AB 7210 SAS-M/T/Mxp ETR +24V (200W) DC Power Supply Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC system includes; 2 GB CPU memory (1) 3HE10075AB SYS-7210 SAS-Mxp 22F2C4SFP+
(1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-Mxp 22F 2C 4SFP+ DC system includes; 2 GB CPU memory (1) 3HE10075AB SYS-7210 SAS-Mxp 22F2C4SFP+
(1) 3HE04415AB PS-7210 SAS Mxp/T DC -48V PS (NON-ETR) 200W Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC Extended Temperature Range system includes; 2 GB CPU memory (1) 3HE10076AB SYS - 7210 SAS-Mxp 22F2C4SFP+ ETR
(1) 3HE05580AB 7210 SAS (200W) AC ETR Power supply Does not include 7210 SAS Operating Software or usage licenses.

<p>SYS - 7210 SAS-Mxp 22F 2C 4SFP+ -48V DC Extended Temperature Range system includes; 2 GB CPU memory (1) 3HE10076AB SYS - 7210 SAS-Mxp 22F2C4SFP+ ETR (1) 3HE05581AB 7210 SAS -48V (200W) DC ETR Power supply <u>Does not include 7210 SAS Operating Software or usage licenses.</u></p>
<p>SYS - 7210 SAS-Mxp 22F 2C 4SFP+ +24V DC Extended Temperature Range system includes; 2 GB CPU memory (1) 3HE10076AB SYS - 7210 SAS-Mxp 22F2C4SFP+ ETR (1) 3HE06336AB 7210 SAS +24V (200W) DC Power supply, <u>Does not include 7210 SAS Operating Software or usage licenses.</u></p>
<p>SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC system includes; 2 GB CPU memory. With NAR AC Cable (1) 3HE10075AB SYS-7210 SAS-Mxp 22F2C4SFP+ (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt (1) 3HE00271AA CBL - AC PWR CBL 110V USA <u>Does not include 7210 SAS Operating Software or usage licenses.</u></p>
<p>SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC system includes; 2 GB CPU memory. With UK AC Cable (1) 3HE10075AB SYS-7210 SAS-Mxp 22F2C4SFP+ (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt (1) 3HE00271AD CBL - AC PWR CBL 110V UK <u>Does not include 7210 SAS Operating Software or usage licenses.</u></p>
<p>SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC system includes; 2 GB CPU memory. With EUR AC Cable (1) 3HE10075AB SYS-7210 SAS-Mxp 22F2C4SFP+ (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt (1) 3HE00271AC CBL - AC PWR CBL 110V EUR <u>Does not include 7210 SAS Operating Software or usage licenses.</u></p>
<p>SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC Extended Temperature Range system includes; 2 GB CPU memory w NAR Power cord (1) 3HE10076AB SYS - 7210 SAS-Mxp 22F2C4SFP+ ETR (1) 3HE05580AB 7210 SAS (200W) AC Power supply, (1) 3HE00271AA CBL - AC PWR CBL 110V USA <u>Does not include 7210 SAS Operating Software or usage licenses.</u></p>
<p>SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC Extended Temperature Range system includes; 2 GB CPU memory w UK Power cord (1) 3HE10076AB SYS - 7210 SAS-Mxp 22F2C4SFP+ ETR (1) 3HE05580AB 7210 SAS (200W) AC Power supply (1) 3HE00271AD CBL - AC PWR CBL 110V UK <u>Does not include 7210 SAS Operating Software or usage licenses.</u></p>
<p>SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC Extended Temperature Range system includes; 2 GB CPU memory w UK Power cord (1) 3HE10076AB SYS - 7210 SAS-Mxp 22F2C4SFP+ ETR (1) 3HE05580AB 7210 SAS (200W) AC Power supply (1) 3HE00271AC CBL - AC PWR CBL 110V EUR <u>Does not include 7210 SAS Operating Software or usage licenses.</u></p>
<p>OS - 7210 SAS-Mxp Release 20.X Base OS license, Standalone mode.</p> <p>This is a per chassis license, valid for release 20.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services). It excludes the use of IP services (e.g. VPRNs and IES services). It is required to operate 7210 SAS-Mxp ETR and non-ETR chassis, in standalone mode.</p> <p>It excludes the use satellite mode of operation. It must also be purchased for upgrade to release 20.X. <u>Includes one (1) programmed 2GB Compact Flash cards with the Operating Software.</u></p>
<p>OS - 7210 SAS-Mxp Release 21.X Base OS license, Standalone mode.</p> <p>This is a per chassis license, valid for release 21.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services). It excludes the use of IP services (e.g. VPRNs and IES services). It is required to operate 7210 SAS-Mxp ETR and non-ETR chassis, in standalone mode.</p> <p>It excludes the use satellite mode of operation. It must also be purchased for upgrade to release 21.X. <u>Includes one (1) programmed 2GB Compact Flash cards with the Operating Software.</u></p>
<p>RTU – 7210 SAS-Mxp IP Services License.</p> <p>This is a per chassis license. It enables support of IP services (e.g. VPRN, IES and L3 VPNs using BGP 3107).</p>

RTU – 7210 SAS-Mxp PTP/1588 & Timing Interfaces License.

This is a per chassis license. It enables the following Timing interfaces and software – BITS, 1pps, 10MHz, ToD and PTP/1588.

NOTE: SyncE is available with the base OS software license and does not require a separate license.

1-port 100GE CFP2 MDA-a XP for the 7750 SR-a family. Optics Module must be purchased separately.

Multi-Service Integrated Services Module-2 which could be used for AA, LNS, NAT

Multi-Service Integrated Services Module-2 which could be used for AA, BB, LNS, NAT (no Encryption)

7750 SR 6-port 10GBASE MDA-e. Accepts six (6) SFP+ 10GBase Optics Modules.

ACC - 7210 SAS-R12 PEM Impedance Panel

ACC – 7210 SAS-R12 AIR FILTER 5 pack

ACC - 7210 SAS-R12 SF/CPM Impedance Panel

Includes a single 8.2 ft (2.5M) long PSE certified auto-locking Japanese AC power cord ,12A/125V with (JIS 8303 plug to IEC320-C13). Can be used for Japan deployments with SAR-X or SAR-H

1-port 10GBASE-BX40-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, TX: 1270nm, RX: 1330nm; LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C

1-port 10GBASE-BX40-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C

7750 SR-1e Chassis DC PSU starter bundle.

Bundle Includes:

- (2) 3HE09419AA - ACC - 7750 SR-a PSU Impedance Panel
- (2) 3HE09548AA - PSU - 7750 SR-e -48V DC PSU
- (1) 3HE10295AA - ACC - 7750 SR-e CCM Impedance Panel
- (1) 3HE10296AA - ACC - 7750 SR-e CPM Impedance Panel
- (1) 3HE10301AA - CHAS - 7750 SR-1e Chassis Spare
- (1) 3HE10304AA - FAN - 7750 SR-1e Fan Tray
- (1) 3HE10309AA - CCM - 7750 SR-e CCM-e
- (1) 3HE10310AA - CPM - 7750 SR-e CPM-e
- (3) 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP

7750 SR-1e AC PSU starter bundle

Bundle includes;

- (2) 3HE09419AA ACC - 7750 SR-a PSU Impedance Panel
- (2) 3HE09549AA PSU - 7750 SR-e AC PSU
- (1) 3HE10295AA ACC - 7750 SR-e CCM Impedance Panel
- (1) 3HE10296AA ACC - 7750 SR-e CPM Impedance Panel
- (1) 3HE10301AA CHAS - 7750 SR-1e Chassis Spare
- (1) 3HE10304AA FAN - 7750 SR-1e Fan Tray
- (1) 3HE10309AA CCM - 7750 SR-e CCM-e
- (1) 3HE10310AA CPM - 7750 SR-e CPM-e
- (3) 3HE10312AA ACC - Impedance PNL MDA-e MDA-e-XP

7750 SR-2e Chassis DC PSU starter bundle.

Bundle Includes:

- (6) 3HE09419AA ACC - 7750 SR-a PSU Impedance Panel
- (2) 3HE09548AA PSU - 7750 SR-e -48V DC PSU
- (1) 3HE10295AA ACC - 7750 SR-e CCM Impedance Panel
- (1) 3HE10296AA ACC - 7750 SR-e CPM Impedance Panel
- (1) 3HE10297AA ACC - 7750 SR-e IOM Impedance Panel
- (1) 3HE10302AA CHAS - 7750 SR-2e Chassis Spare
- (1) 3HE10305AA FAN - 7750 SR-2e Fan Tray
- (1) 3HE10309AA CCM - 7750 SR-e CCM-e
- (1) 3HE10310AA CPM - 7750 SR-e CPM-e
- (7) 3HE10312AA ACC - Impedance PNL MDA-e MDA-e-XP

7750 SR-2e AC PSU starter bundle

Bundle includes;

- (6) 3HE09419AA ACC - 7750 SR-a PSU Impedance Panel
- (2) 3HE09549AA PSU - 7750 SR-e AC PSU
- (1) 3HE10295AA ACC - 7750 SR-e CCM Impedance Panel
- (1) 3HE10296AA ACC - 7750 SR-e CPM Impedance Panel
- (1) 3HE10297AA ACC - 7750 SR-e IOM Impedance Panel
- (1) 3HE10302AA CHAS - 7750 SR-2e Chassis Spare
- (1) 3HE10305AA FAN - 7750 SR-2e Fan Tray
- (1) 3HE10309AA CCM - 7750 SR-e CCM-e
- (1) 3HE10310AA CPM - 7750 SR-e CPM-e
- (7) 3HE10312AA ACC - Impedance PNL MDA-e MDA-e-XP

7750 SR-3e Chassis DC PSU starter bundle.

Bundle Includes:

- (5) 3HE09419AA ACC - 7750 SR-a PSU Impedance Panel
- (3) 3HE09548AA PSU - 7750 SR-e -48V DC PSU
- (1) 3HE10295AA ACC - 7750 SR-e CCM Impedance Panel
- (1) 3HE10296AA ACC - 7750 SR-e CPM Impedance Panel
- (2) 3HE10297AA ACC - 7750 SR-e IOM Impedance Panel
- (1) 3HE10303AA CHAS - 7750 SR-3e Chassis Spare
- (1) 3HE10306AA FAN - 7750 SR-3e Fan Tray
- (1) 3HE10309AA CCM - 7750 SR-e CCM-e
- (1) 3HE10310AA CPM - 7750 SR-e CPM-e
- (1) 3HE10312AA ACC - Impedance PNL MDA-e MDA-e-XP

7750 SR-3e AC PSU starter bundle

Bundle includes;

- (5) 3HE09419AA ACC - 7750 SR-a PSU Impedance Panel
- (3) 3HE09549AA PSU - 7750 SR-e AC PSU
- (1) 3HE10295AA ACC - 7750 SR-e CCM Impedance Panel
- (1) 3HE10296AA ACC - 7750 SR-e CPM Impedance Panel
- (2) 3HE10297AA ACC - 7750 SR-e IOM Impedance Panel
- (1) 3HE10303AA CHAS - 7750 SR-3e Chassis Spare
- (1) 3HE10306AA FAN - 7750 SR-3e Fan Tray
- (1) 3HE10309AA CCM - 7750 SR-e CCM-e
- (1) 3HE10310AA CPM - 7750 SR-e CPM-e
- (1) 3HE10312AA ACC - Impedance PNL MDA-e MDA-e-XP

ACC 7950 XRS-20 80A BREAKERS (x24)

ACC 7750 SR-12e 80A breakers (x16)

7750 SR12e Chassis Bundle includes:

- (1) 3HE07165AA - CH-BN - 7750 SR12e Integrated Chassis
- (1) 3HE08421AA - SFM - 7750 SR SFM5-12e
- (1) 3HE08423AA - CPM - 7750 SR CPM5
- (2) 3HE08422AA - SFM - 7750 SR mini-SFM5-12e
- (3) 3HE09423AA - APEQ-AC-3000 Power Equalizer Module
- (1) 3HE10114AA - ACC 7750 SR-12e AC bezel
- (1) 3HE10475AA - ACC 7750 SR-12e 80A Breakers x16

7750 SR12e Chassis Bundle includes:

- (1) 3HE07165AA - CH-BN - 7750 SR12e Integrated Chassis
- (1) 3HE08421AA - SFM - 7750 SR SFM5-12e
- (1) 3HE08423AA - CPM - 7750 SR CPM5
- (2) 3HE08422AA - SFM - 7750 SR mini-SFM5-12e
- (3) 3HE09422AA - APEQ-DC-2200-2800 Power Equalizer Module
- (1) 3HE10475AA - ACC 7750 SR-12e 80A Breakers x16

<p>SYS - 7210 SAS-Sx 46F 2C 4SFP+ system includes; (1) Fixed Fans, (2) Hot swappable power supply slots, (2) Replaceable Air Filters, Accepts(46) 100/1000 SFP + 2 Combo + (4) SFP+. Supports stacking. Does not include power supplies. Does not include 7210 SAS Operating Software or usage licenses.</p>
<p>SYS - 7210 SAS-Sx 22F 2C 4SFP+ system includes; (1) Fixed Fans, (2) Hot swappable power supply slots, (2) Replaceable Air Filters, Accepts (22) 100/1000 SFP + 2 Combo + (4) SFP+. Supports stacking. Does not include power supplies. Does not include 7210 SAS Operating Software or usage licenses.</p>
<p>SYS - 7210 SAS-Sx 48T 4SFP+ system includes; (1) Fixed Fans, (2) Hot swappable power supply slots, (2) Replaceable Air Filters, (48) 10/100/1000 TX (4) SFP+) Non-PoE. Supports stacking. Does not include power supplies. Does not include 7210 SAS Operating Software or usage licenses.</p>
<p>SYS - 7210 SAS-Sx 24T 4SFP+ system includes; (1) Fixed Fans, (2) Hot swappable power supply slots, (2) Replaceable Air Filters, (24) 10/100/1000 TX (4) SFP+) Non-PoE. Supports stacking. Does not include power supplies. Does not include 7210 SAS Operating Software or usage licenses.</p>
<p>SYS - 7210 SAS-Sx 48Tp 4SFP+ system includes; (1) Fixed Fans, (2) Hot swappable power supply slots, (2) Replaceable Air Filters, (48) 10/100/1000 TX (4) SFP+) 720W PoE capability. Supports stacking. Does not include power supplies. Does not include 7210 SAS Operating Software or usage licenses.</p>
<p>'SYS - 7210 SAS-Sx 24Tp 4SFP+ system includes; (1) Fixed Fans, (2) Hot swappable power supply slots, (2) Replaceable Air Filters, (24) 10/100/1000 TX (4) SFP+) 720W PoE Capability. Supports stacking. Does not include power supplies. Does not include 7210 SAS Operating Software or usage licenses.</p>
<p>PS – 7210 SAS-Sx Power Supply (fits fiber 1/10G Sx units only) AC 400W</p>
<p>PS – 7210 SAS-Sx Power Supply (fits fiber 1/10G Sx units only) DC -48V 400W</p>
<p>PS - 7210 SAS-Sx Power Supply (Fits Copper 1/10G Sx units only) AC</p>
<p>PS - 7210 SAS-Sx Power Supply (Fits Copper1/10G Sx units only) DC -48V</p>
<p>PS - 7210 SAS-Sx Power Supply PoE (Fits Copper PoE 1/10G Sx units only) AC 920W</p>
<p>ACC - 7210 SAS-Sx Fan Tray Filter (10)</p>
<p>BNDL - 7210 SAS-R12 (1) 3HE09427AA CHAS - 7210 SAS-R12 CHASSIS SPARE (1) 3HE09430AA SF/CPM - 7210 SAS-R12 (1) 3HE10441AA ACC - 7210 SAS-R12 SF/CPM Impedance Panel (1) 3HE09428AA FAN - 7210 SAS-R12 Fan Tray (2) 3HE09429AA PEM - 7210 SAS-R12 -48V (11) 3HE08159AA ACC - 7210 SAS-R IMM Impedance Panel</p>
<p>SYS - 7210 SAS-S 48F4SFP+ system includes; (1) Fixed Fans, (1) Fixed AC Power supply, (1) Hot swappable power supply slot, No Air Filters, Accepts (48) 100/1000 SFP (4) SFP+. Does not include 7210 SAS Operating Software or usage licenses.</p>
<p>SYS - 7210 SAS-S 48F4SFP+ system includes; (1) Fixed Fans, (1) Fixed DC -48V Power supply, (1) Hot swappable power supply slot, No Air Filters, Accepts (48) 100/1000 SFP (4) SFP+. Does not include 7210 SAS Operating Software or usage licenses.</p>

SYS - 7210 SAS-S 24F4SFP+ system includes;

- (1) Fixed Fans,
- (1) Fixed AC Power supply,
- (1) Hot swappable power supply slot,
- No Air Filters,
- Accepts (24) 100/1000 SFP
- (4) SFP+.

Does not include 7210 SAS Operating Software or usage licenses.

SYS - 7210 SAS-S 24F4SFP+ system includes;

- (1) Fixed Fans,
- (1) Fixed DC -48V Power supply,
- (1) Hot swappable power supply slot,
- No Air Filters,
- Accepts (24) 100/1000 SFP
- (4) SFP+.

Does not include 7210 SAS Operating Software or usage licenses.

SYS - 7210 SAS-S 48F4SFP+ system includes;

- (1) Fixed Fans,
- (1) Fixed AC Power supply,
- (1) Hot swappable power supply slot,
- No Air Filters,
- Accepts (48) 10/100/1000 TX
- (4) SFP+.

Does not include 7210 SAS Operating Software or usage licenses.

SYS - 7210 SAS-S 48F4SFP+ system includes;

- (1) Fixed Fans,
- (1) Fixed DC -48V Power supply,
- (1) Hot swappable power supply slot,
- No Air Filters,
- Accepts (48) 10/100/1000 TX
- (4) SFP+.

Does not include 7210 SAS Operating Software or usage licenses.

SYS - 7210 SAS-S 24F4SFP+ system includes;

- (1) Fixed Fans,
- (1) Fixed AC Power supply,
- (1) Hot swappable power supply slot,
- No Air Filters,
- Accepts (24) 10/100/1000 TX
- (4) SFP+.

Does not include 7210 SAS Operating Software or usage licenses.

SYS - 7210 SAS-S 24F4SFP+ system includes;

- (1) Fixed Fans,
- (1) Fixed DC -48V Power supply,
- (1) Hot swappable power supply slot,
- No Air Filters,
- Accepts (24) 10/100/1000 TX
- (4) SFP+.

Does not include 7210 SAS Operating Software or usage licenses.

<p>SYS - 7210 SAS-S 48T4SFP+ PoE AC system includes;</p> <p>(1) Fixed Fans, (1) Fixed AC Power supply, (1) Hot swappable power supply slot, No Air Filters, Accepts (48) 10/100/1000 TX (4) SFP+.</p> <p>Requires a C15 compliant Power cable</p>
<p>SYS - 7210 SAS-S 24T4SFP+ PoE AC system includes;</p> <p>(1) Fixed Fans, (1) Fixed AC Power supply, (1) Hot swappable power supply slot, No Air Filters, Accepts (24) 10/100/1000 TX (4) SFP+</p> <p>Requires a C15 compliant Power cable</p>
<p>PS - 7210 SAS-S Power Supply AC (Fits Fiber & Copper 1/10G NON-PoE "S" units)</p>
<p>PS - 7210 SAS-S Power Supply DC -48V (Fits Fiber & Copper 1/10G NON-PoE "S" units)</p>
<p>PS - 7210 SAS-S Power Supply AC 1050W (Fits Copper PoE "S" units). Requires a C16 compliant Power cable</p>
<p>1-port 100GBase LR4 QSFP28 Optics Module, 10km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C</p>
<p>1-port 100GBase SR4 QSFP28 Optics Module, 100m, MMF, MPO Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C</p>
<p>1-port 100GBase CWDM4 QSFP28 Optics Module, 2km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C</p>
<p>IMM - 7210 SAS-R-c 100GE QSFP28</p>
<p>SROS GMPLS-UNI Right To Use License. A per system license. Allows the use of the GMPLS-UNI functionality.</p>
<p>SROS Advanced Data Center Gateway (DC GW) and Service Chaining Right To Use License. A per system license. Allows the use of advanced DC GW and service chaining and steering functions, subject to platform feature limitations and support, such as: Fully Dynamic VSD Integration for Nuage driven service creation, use of a BGP EVPN control plane for L2/L3 service chaining and steering, Ethernet Segment Identifier (ESI) traffic steering using filter policies (including L3 ESM subscriber downstream traffic steering) and other related functions.</p>
<p>7750 SR 20 port SFP, 40port cSFP GE MDA-e, Accepts twenty (20) cSFP/SFP 1000Base Optics Modules.</p>
<p>7750 SR IOM4-e-B Baseboard. Accepts up to 2 MDA-e</p>
<p>Full Service Routing Functionality, Full Queuing, hierarchical policing, IPv4/IPv6 routing services. Available upgrades/licenses: VPRN</p>
<p>7750 SR IOM4-e-B Baseboard. Accepts up to 2 MDA-e</p>
<p>Includes "Layer-3 basic Queuing" IMM Software License/functionality for full IPv4/IPv6 routing services. Limited to 8 ingress and 8 egress queues per port. Does not include Hierarchical Policers. Available upgrades/licenses: VPRN, upgrade to L3HQ</p>
<p>7750 SR IOM4-e-B Baseboard. Accepts up to 2 MDA-e</p>
<p>Includes "Layer-2 High Queuing" IMM Software License/functionality for full ESS functionality which includes the use of full queuing and policing with layer-2 services.</p>
<p>Excludes use of multicast routing protocol or services, IPv6 routing services, VPRN services (including IPv4 and IPv6 VPNs), network interfaces when installed in a chassis running the above mentioned restricted services. Available upgrades/licenses: upgrade to L3HQ</p>
<p>OS - 7210 SAS-D Release 20.X (or upgrade to rel 20.X).</p>
<p>OS - 7210 SAS-D Release 21.X (or upgrade to rel 21.X).</p>
<p>OS - 7210 SAS-M Release 20.X (or upgrade to rel 20.X).</p>
<p>OS - 7210 SAS-M Release 21.X (or upgrade to rel 21.X).</p>
<p>7750 SR-7-B Chassis Spare. Includes; 7750 SR-7-B Chassis & Fan Filter.</p>
<p>(5) impedance panels are included within the 3HE10766AA - CHAS - 7750 SR-7-B CHASSIS SPARE RoHS6/6</p>

7750 SR-12-B Chassis Spare. Includes; 7750 SR-12-B Chassis & Fan Filter.

(10) impedance panels and cable management tray included

PS - 7210 SAS-Sx 64SFP+4CFP4/4QSFP28 NETR AC

Fits both CFP4 and QSFP28 models

PS - 210 WBX, 7210 Sx 100G -48VDC (FtoB) supports also:

3HE15622AA SYS - 7220 IXR-D2 48SFP28 8QSFP28

3HE15623AA SYS - 7220 IXR-D3 32QSFP28 2SFP+

7750 SR-7-B Chassis bundle includes the following:

- (1) 3HE03661AA - PEM - 7750 SR-7 100A DC PEM-3 SLOT 2
- (1) 3HE03662AA - PEM - 7750 SR-7 100A DC PEM-3 SLOT 1
- (2) 3HE04498AA - PWR FLT - 7750 SR-7 100 AMP PWR FILTER
- (1) 3HE05180AA - FAN - 7750 SR-7 Enhanced Fan Tray
- (1) 3HE10766AA - CHAS - 7750 SR-7-B CHASSIS SPARE RoHS6/6

Note: (1) 3HE04148AA - 7750 SR Impedance Panels (5 pkg) are part of the 3HE10766AA - CHAS - 7750 SR-7-B CHASSIS SPARE RoHS6/6

7750 SR-12-B Chassis bundle includes the following:

- (2) 3HE03663AA - PEM - 7750 SR-12 175A DC PEM-3
- (3) 3HE05106AA - FAN - 7750 SR-12 ENHANCED FAN TRAY
- (1) 3HE10768AA - CHAS - 7750 SR-12-B CHASSIS SPARE RoHS6/6

Note: (10) impedance panels and cable management tray included with the 3HE10768AA - CHAS - 7750 SR-12-B CHASSIS SPARE RoHS6/6

OS - 7210 SAS-Sx and 7210 SAS-S, 1GE/10GE variant, Release 20.X Base OS License / Native and MPLS Ethernet L2 VPNs License, Standalone Mode.

This is a per chassis license, valid for release 20.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services) for operating the chassis in standalone mode. It also includes support for syncE and PTP.

It excludes the use IP services (e.g. VPRNs and IES services).

In a stacked/VC configuration, it must be purchased for every node in the stack/VC.

~~It must also be purchased for upgrade to release 20.X. It will shipped on a SD Card~~

OS - 7210 SAS-Sx and 7210 SAS-S, 1GE/10GE variant, Release 21.X Base OS License / Native and MPLS Ethernet L2 VPNs License, Standalone Mode.

This is a per chassis license, valid for release 21.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services) for operating the chassis in standalone mode. It also includes support for syncE and PTP.

It excludes the use IP services (e.g. VPRNs and IES services).

In a stacked/VC configuration, it must be purchased for every node in the stack/VC.

~~It must also be purchased for upgrade to release 21.X. It will shipped on a SD Card~~

RTU - 7210 SAS-Sx and 7210 SAS-S IP services License, 1GE variant, Standalone Mode.

This is a per chassis license. It is a one-time license to enable IP services on the node. It enables support of IP services (e.g. VPRN, IES and L3 VPNs using BGP 3107).

In a stacked/VC configuration this license must be purchased for every node in the stack/VC.

OS - 7210 SAS-Sx and 7210 SAS-S, 1GE/10GE variant, Release 20.X Base OS License, Satellite Mode. This is a per chassis license for release 20.X. It allows for operating the chassis in satellite mode. It excludes the use standalone mode of operation and use of stacking/VC configuration. It must also be purchased for upgrade to release 20.X. It will be shipped on a SD card.
OS - 7210 SAS-Sx and 7210 SAS-S, 1GE/10GE variant, Release 21.X Base OS License, Satellite Mode. This is a per chassis license for release 21.X. It allows for operating the chassis in satellite mode. It excludes the use standalone mode of operation and use of stacking/VC configuration. It must also be purchased for upgrade to release 21.X. It will be shipped on a SD card.
SROS UPnP IGD License - A per system license for UPnP IGD function on BB-ISA
SROS vRGW BRG authentication License – A per system license for BRG authentication on vRGW
ASL R16.0 VSR Distributed Base - Application Software License (ASL) required to create a single distributed VSR instance. One (1) of these ASLs is required for each instance of VSR distributed system and supports a single control plane VM. Additional ASLs will be required to add control plane redundancy, bandwidth capacity, services and value added services such as AA, SEGW, BNG, WLGW & NAT.
ASL R16.0 VSR Dist Redundant Control Plane - Application Software License (ASL) required to enable a redundant control plane VM. One (1) of these ASL is required to instantiate a redundant control plane VM per VSR system.
ASL R16.0 VSR Distributed Base < 60Gbps - Application Software License (ASL) required to create a single distributed VSR instance under 60Gbps. Not required if using ASL R15.0 VSR Distributed Base. One (1) of these ASLs is required for each instance of a <60Gbps VSR distributed system and supports a single control plane VM. Additional ASLs will be required to add control plane redundancy, bandwidth capacity, services and value added services such as AA, SEGW, BNG, WLGW & NAT.
Kit contains two spare adapter brackets and fastener hardware to secure the 7750 SR-a4 chassis to an ETSI rack.
SROS IEEE1588 Precision Time Protocol Right To Use License. A per system license. Allows the use of IEEE1588 PTP support including Ordinary Clock-Master, Ordinary Clock-Slave, Boundary clock and 1588 Port Based Timestamping
7210 SAS-K 2F4T6C Ethernet system includes: (1) 7210 SAS + AC Power Adapter (No AC power cable included), (4) 10/100/1000 TX + Accepts(2) 1000 SFP + 6 Combo, Does not include 7210 SAS Operating Software
7210 SAS-K 2F4T6C Ethernet system Extended Temperature Range includes: (4) 10/100/1000 TX + Accepts (2) 1000 SFP + 6 Combo, Does not include power supplies, does not include 7210 SAS Operating Software
PS - 7210 SAS-K 2F4T6C Non-ETR AC, includes AC power supply. Suits 12 port device only.
PS - 7210 SAS-K 2F4T6C Non-ETR -48V DC Suits 12 port device only
PS - 7210 SAS-K 2F4T6C ETR AC Suits 12 port device ETR and 7210 SAS-Dxp ETR
PS - 7210 SAS-K 2F4T6C ETR -48V DC Suits 12 port device ETR and 7210 SAS-Dxp ETR
PS - 7210 SAS-K 2F4T6C ETR +24V DC Suits 12 port device ETR only
7750 SR 2-ports 40/100GBASE MDA-e. Accepts two (2) QSFP+/QSFP28 100GBase Optic Module.
GNSS antenna for global GNSS timing reference featuring 26 dB low noise, high gain amplifier with a nominal impedance of 50 Ohms and uses a N-Type Female Connector and supports a Temp Range of -40C to +85C. Includes mounting collar.
GNSS antenna for global GNSS timing reference featuring 40 dB low noise, high gain amplifier with a Nominal impedance of 50 Ohms and uses a N-Type Female Connector and supports a Temp Range of -40C to +85C. Includes mounting collar
GPS timing reference antenna featuring 26 dB amplifier and narrow band high rejection filtering. Antenna has a Nominal impedance of 50 Ohms and uses a N-Type Female Connector and supports a Temp Range of -40C to +85C Includes mounting collar
GPS timing reference antenna featuring 40 dB amplifier and narrow band high rejection filtering. Antenna has a Nominal impedance of 50 Ohms and uses a N-Type Female Connector and supports a Temp Range of -40C to +85C. Includes mounting collar

ASL R21 VSR Integrate System Base - Application Software License required to create a single integrated system VSR instance. One of these ASLs is required for each instance of VSR integrated system and supports a single VM with both control plane and data plane. Additional ASLs will be required to add bandwidth capacity, services and value added services such as AA, SEGW, BNG, WLGW & NAT.

ASL VSR 10Gbps BW w Standard QoS - Application Software License (ASL) is required to enable up to 10Gbps (Half Duplex / ingress traffic, for IMIX traffic distribution) of incremental VSR throughput.

One (1) of these ASLs is required for every increment of 10Gbps of vNIC bandwidth throughput on a VSR system supporting standard QoS functionality. Standard QoS functionality is restricted to queuing and policing, with a maximum of 8 queues or policers per vNIC port. Multiple ASLs may be applied to a single VSR instance to allow the desired bandwidth scale. All bandwidth ASLs applied to a single system must be of the same type (standard or Advanced).

ASL VSR 10Gbps BW w Advanced QoS - Application Software License (ASL) is required to enable up to 10Gbps (Half Duplex / ingress traffic, for IMIX traffic distribution) of VSR incremental throughput.

One (1) of these ASLs is required for every increment of 10Gbps of vNIC bandwidth throughput on a VSR system supporting Advanced QoS functionality. Advanced QoS functionality enables queuing, shaping and policing per SAP or subscriber. Multiple ASLs may be applied to a single VSR instance to allow the desired bandwidth scale. All bandwidth ASLs applied to a single system must be of the same type (Standard or Advanced).

ASL VSR 1Gbps BW Standard QoS - Application Software License (ASL) is required to enable up to 1 Gbps (Half Duplex / ingress traffic, for IMIX traffic distribution) of incremental VSR throughput.

One (1) of these ASLs is required for every increment of 1 Gbps of vNIC bandwidth throughput on a VSR system supporting standard QoS functionality. Standard QoS functionality is restricted to queuing and policing, with a maximum of 8 queues or policers per vNIC port. Multiple ASLs may be applied to a single VSR instance to allow the desired bandwidth scale. All bandwidth ASLs applied to a single system must be of the same type (standard or Advanced).

ASL VSR 1Gbps BW w Advanced QoS - Application Software License (ASL) is required to enable up to 1 Gbps (Half Duplex / ingress traffic, for IMIX traffic distribution) of VSR incremental throughput.

One (1) of these ASLs is required for every increment of 1 Gbps of vNIC bandwidth throughput on a VSR system supporting Advanced QoS functionality. Advanced QoS functionality enables queuing, shaping and policing per SAP or subscriber. Multiple ASLs may be applied to a single VSR instance to allow the desired bandwidth scale. All bandwidth ASLs applied to a single system must be of the same type (Standard or Advanced).

ASL VSR VPN Service 500 instances - Application Software License (ASL) is required to enable support for VPN service within a VSR instance.

One (1) of these ASLs allows for up to 500 VPN instances, including VPRN, VPLS and VLL services. Multiple ASLs may be applied to a single VSR instance to allow the desired service scale.

ASL VSR VPN Service 100 instances - Application Software License (ASL) is required to enable support for VPN service within a VSR instance.

One (1) of these ASLs allows for up to 100 VPN instances, including VPRN, VPLS and VLL services. Multiple ASLs may be applied to a single VSR instance to allow the desired service scale.

ASL VSR VPN Service 25 instances - Application Software License (ASL) is required to enable support for VPN service within a VSR instance.

One (1) of these ASLs allows for up to 25 VPN instances, including VPRN, VPLS and VLL services. Multiple ASLs may be applied to a single VSR instance to allow the desired service scale.

ASL VSR IP-Tunnel 1k Tunnels - Application Software License is required to enable IP tunnel scale in increments of 1,000 -

One (1) license is required for 1,000 IP tunnels per VSR. Multiple ASLs may be applied to a single VSR instance to allow the required tunnel scale.

ASL VSR IP-Tunnel 100 Tunnels - Application Software License is required to enable IP tunnel scale in increments of 100 -

One (1) license is required for 100 IP tunnels per VSR. Multiple ASLs may be applied to a single VSR instance to allow the required tunnel scale.

ASL VSR Lawful Intercept (LI) - Application Software License (ASL) is required to enable the lawful intercept feature.

One (1) license is required per VSR.

ASL VSR ADV DC GW and Svc Chain - Application Software License (ASL) is required to enable Advanced Data Center Gateway (DC GW) and Service Chaining, subject to platform feature limitations and support, such as use of a BGP EVPN control plane for L2/L3 service chaining and steering, Ethernet Segment Identifier (ESI) traffic steering using filter policies (including L3 ESM subscriber downstream traffic steering) and other related functions.

One (1) license is required per VSR.

ASL VSR Hybrid OpenFlow Switch - Application Software License (ASL) is required to enable the Hybrid OpenFlow Switch feature, subject to limitations imposed by the particular SR OS release.

One (1) license is required per VSR.

<p>ASL VSR-BNG 10k Hosts - Application Software License is required to enable subscriber management in increments of 10,000 subscriber hosts.</p> <p>One (1) of these ASLs is required for every increment of 10,000 BNG subscriber hosts. Multiple ASLs may be applied to a single VSR instance to allow the required subscriber hosts scale.</p>
<p>ASL VSR-BNG 4k Hosts - Application Software License is required to enable subscriber management in increments of 10,000 subscriber hosts.</p> <p>One (1) of these ASLs is required for every increment of 4,000 BNG subscriber hosts. Multiple ASLs may be applied to a single VSR instance to allow the required subscriber hosts scale.</p>
<p>ASL VSR-vRGW 10k Hosts - Application Software License is required to enable virtual residential gateway subscriber management in increments of 10,000 subscriber hosts.</p> <p>One (1) of these ASLs is required for every increment of 10,000 vRGW subscriber hosts. Multiple ASLs may be applied to a single VSR instance to allow the required subscriber hosts scale.</p>
<p>ASL VSR-LNS 1k L2TP Tunnels - Application Software License is required for LNS providing support for up to 1,000 L2TP tunnels. Multiple ASLs may be applied to a single VSR instance to allow the required tunnel scale.</p>
<p>ASL VSR-LNS 10k Hosts - Application Software License is required to enable subscriber management in increments of 10,000 subscriber hosts.</p> <p>One (1) of these ASLs is required for every increment of 10,000 LNS subscriber hosts. Multiple ASLs may be applied to a single VSR instance to allow the required subscriber hosts scale.</p>
<p>ASL VSR-LNS 4k Hosts - Application Software License is required to enable subscriber management in increments of 10,000 subscriber hosts.</p> <p>One (1) of these ASLs is required for every increment of 4,000 LNS subscriber hosts. Multiple ASLs may be applied to a single VSR instance to allow the required subscriber hosts scale.</p>
<p>ASL VSR-WLGW 10k Hosts - Application Software License is required to enable WLAN GW subscriber hosts in increments of 10,000.</p> <p>One (1) license is required for every increments of 10,000 WIFI subscriber hosts per VSR. Multiple ASLs may be applied to a single VSR instance to allow the required host scale.</p>
<p>ASL VSR-WLGW Multiple SSID - Application Software License is required to enable Multiple SSID support within the WLAN GW - One (1) license is required to enable WIFI Multiple SSID Support per VSR.</p>
<p>ASL-VSR-WLGW Mobility - Application Software License is required to enable WiFi Inter-AP mobility.</p> <p>One (1) license is required to enable WIFI Inter-AP WIFI Mobility per VSR.</p>
<p>ASL VSR-WLGW Geo Redundancy - Application Software License is required to enable geo redundancy between WLAN GWs.</p> <p>One (1) license is required to enable WLAN GW Geo-Redudancy per VSR.</p>
<p>ASL VSR-AA ID and CTL Res 10k Subs - Application Software License (ASL) required for Application Assurance traffic identification and control for residential subscribers.</p> <p>One (1) of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.</p>
<p>ASL VSR-AA IBN Res 10k Subs - Application Software License (ASL) required for Application Assurance IBN rules for in-browser notification (IBN) for residential subscribers.</p> <p>One (1) of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.</p>
<p>ASL VSR-AA ICAP Control Res 10k Subs - Application Software License (ASL) required for Application Assurance ICAP session control for residential subscribers.</p> <p>One (1) of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.</p>
<p>ASL VSR-AA URL Filter Res 10k Subs - Application Software License (ASL) required for Application Assurance local list URL filtering for residential subscribers.</p> <p>One (1) of these ASLs is required for URL filtering for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.</p>
<p>ASL VSR-AA RTP Perf Res 10k Subs - Application Software License (ASL) required for Application Assurance RTP Performance Measurement for residential subscribers, including enable RTP Performance license.</p> <p>One (1) of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.</p>
<p>ASL VSR-AA ID and CTL Wifi 10k Subs - Application Software License (ASL) required for Application Assurance traffic identification and control for wifi subscribers.</p> <p>One (1) of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.</p>

<p>Application Software License - Application Software License (ASL) required for Application Assurance IBN rules for in-browser notification (IBN) for wifi subscribers.</p> <p>One (1) of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.</p>
<p>ASL VSR-AA ICAP Control 10k Subs - Application Software License (ASL) required for Application Assurance ICAP session control for Wifi (DSM) subscribers.</p> <p>One (1) of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.</p>
<p>Application Software License - Application Software License (ASL) required for Application Assurance local list URL filtering for wifi subscribers.</p> <p>One (1) of these ASLs is required for URL filtering for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale. .</p>
<p>ASL VSR-AA ID and CTL VPN 1 Gbps - Application Software License (ASL) required for Application Assurance traffic identification and control for VPN subscribers.</p> <p>One (1) of these ASLs is required for every increment of 1 Gbps of AA traffic for IMIX traffic distribution. Multiple instances may be applied to a single VSR to allow the desired scale.</p>
<p>ASL VSR-I AA ID and CTL VPN 100 Mbps - Application Software License (ASL) required for Application Assurance traffic identification for VPN subscribers.</p> <p>One (1) of these ASLs is required for every increment of 100 Mbps of AA traffic for IMIX traffic distribution. Multiple instances may be applied to a single VSR to allow the desired scale.</p>
<p>ASL VSR-AA Stateful FW 1 Gbps - Application Software License (ASL) required for Application Assurance Stateful Firewall.</p> <p>One (1) of these ASLs is required for every increment of 1 Gbps of AA traffic. Multiple instances may be applied to a single VSR to allow the desired scale.</p>
<p>ASL VSR-AA Stateful FW 100 Mbps - Application Software License (ASL) required for Application Assurance Stateful Firewall.</p> <p>One (1) of these ASLs is required for every increment of 100 Mbps of AA traffic. Multiple instances may be applied to a single VSR to allow the desired scale.</p>
<p>ASL VSR-AA RTP Perf VPN 1 Gbps - Application Software License (ASL) required for Application Assurance RTP Performance Measurement for VPN subscribers, including enable RTP Performance license.</p> <p>One (1) of these ASLs is required for every increment of 1 Gbps of AA traffic for IMIX traffic distribution. Multiple instances may be applied to a single VSR to allow the desired scale.</p>
<p>ASL VSR-I AA RTP Perf 100 Mbps - Application Software License (ASL) required for Application Assurance RTP Performance Measurement for VPN subscribers, including enable RTP Performance license.</p> <p>One (1) of these ASLs is required for every increment of 100 Mbps for IMIX traffic distribution. Multiple instances may be applied to a single VSR to allow the desired scale.</p>
<p>ASL VSR-NAT 10k Subs - Application Software License is required to enable NAT subscriber scale in increments of 10,000.</p> <p>One (1) license is required for every increment of 10,000 active subscribers in a Large Scale NAT (LSN) deployment. The total number of subscribers can include any subscriber type: IPv4 address in LSN44, B4 element (IPv6 address or prefix) in DS-Lite, IPv6 prefix in NAT64 or ESM subscriber in L2-Aware NAT. Multiple ASLs may be applied to a single VSR instance to allow the required subscriber scale.</p>
<p>ASL VSR-NAT 1 Gbps - Application Software License required to enable NAT in bandwidth in increments of 1 Gbps.</p> <p>One (1) license is required for every increment of 1 Gbps of NAT capacity per VSR for IMIX traffic distribution. Multiple ASLs may be applied to a single VSR instance to allow the required bandwidth scale.</p>
<p>ASL VSR-NAT Geo Redundancy - Application Software License required to enable geo redundancy for the NAT function.</p> <p>One (1) license is required to enable stateless GEO LSN redundancy per VSR. Separate NAT subscriber licenses are required for subscriber scale on each VSR.</p>
<p>ASL VSR-NAT UPnP - Application Software License required to enable universal plug and play (UPnP) for the NAT function.</p> <p>One (1) license is required to enable UPnP per VSR.</p>
<p>ASL VSR L2AwareNAT - Application Software License required to enable Layer 2 aware NAT.</p> <p>One (1) license is required to enable L2 aware NAT per VSR.</p>
<p>ASL VSR MAP-T 1 Gbps - Application Software License (ASL) required for Mapping of Address and Port (MAP) in VSR.</p> <p>One (1) of these ASLs is required for every increment of 1 Gbps of traffic utilizing MAP. Multiple ASLs may be applied to an integrated VSR instance to allow the desired scale.</p>
<p>ASL VSR-IPsec 1k Tunnels - Application Software License is required to enable IPsec tunnel scale in increments of 1,000</p> <p>One (1) license is required for 1,000 IPsec tunnels per VSR. Multiple ASLs may be applied to a single VSR instance to allow the required tunnel scale.</p>
<p>ASL VSR-IPsec 100 Mbps - Application Software License is required to enable IPsec bandwidth in increments of 100 Mbps for IMIX traffic distribution.</p> <p>One (1) license is required for every increment of 100 Mbps of IPsec encryption capacity per VSR. Multiple ASLs may be applied to a single VSR instance to allow the required bandwidth scale.</p>

ASL VSR-IPsec Geo Redundancy - Application Software License is required to enable geo-redundancy. One (1) license is required to enable IPsec Geo-redundancy feature within a VSR
ACC - 7210 SAS-Sx Fan Tray Filter (10) for 3HE10494AB SYS - 7210 SAS-Sx 48T4SFP+ 3HE10495AB SYS - 7210 SAS-Sx 24T4SFP+ 3HE10496AB SYS - 7210 SAS-Sx 48T4SFP+ (PoE) 3HE10497AB SYS - 7210 SAS-Sx 24T4SFP+ (PoE)
7750 SR 7-B-Slot Chassis with 7750 SR-7-B 100 Amp DC PEM-3 and 7750 SR-7 Enhanced Fan Tray + 7750 SR SFM5-7 + CPM5 Bundle. Bundle Includes: (1) 3HE10852AA - CH-BN - 7750 SR-7-B DC w/PEM3 + EFT (1) 3HE09261AA - SFM - 7750 SR SFM5-7 + CPM5
7750 SR 12-B Slot Chassis with 7750 SR-12 175 Amp DC PEM-3 and 7750 SR-12 Enhanced Fan Tray + 7750 SR SFM5-12 + CPM5 Bundle. Bundle Includes: (1) 3HE09260AA - SFM - 7750 SR SFM5-12 + CPM5 (1) 3HE10854AA - CH-BN - 7750 SR-12-B w/PEM3 + EFT
7750 SR-14s/7s AC/HVDC Power Shelf spare, Accessory Kit (mounting hardware), AC/HVDC Power Supplies and Coms module sold separately
7750 SR-14s/7s LVDC Power Shelf spare, Accessory Kit (mounting hardware) LVDC Power Supplies and Coms module sold separately
7750 SR-14s/7s Communication Card for the Power Shelf (LVDC and AC/HVDC)
Power Supply AC/HVDC 6kW for the 7750 SR-14s/7s/2s/1s
Power Supply LVDC 6kW for the 7750 SR-14s/7s/2s/1s
Hardware GNSS LICENSE for SAR-Ax. One (1) License needed per SAR-Ax performing GNSS functionality. Note: additional RTU 3HE07354AC will be needed to use IEEE 1588 Time/Phase functionality. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
1-port 100GBase ER4Lite QSFP28 Optics Module, 40km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
1-port 40GBase ER4 40km QSFP+ Optics Module, 40km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)
1-port 4x10GBase LR 10km QSFP+ Optics Module, 10km, MPO Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)
1-port 1000BASE-BX-U Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, TX: 1490 nm, RX: 1570 nm, 80km, LC Connector, RoHS 6/6, Extended Temperature -40/85C
1-port 1000BASE-BX-D Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, TX: 1570nm, RX: 1490nm, 80km, LC Connector, RoHS 6/6, Extended Temperature -40/85C
7250 IXR-R6 Chassis. 6 MDA slots, 2 CPIOM slots. Accessories kit (3HE12384AA) included. No fan tray, fan filters and impedance panels included. Note that the 7250 IXR-R6 chassis does not have PSU slots.
7250 IXR-R6 fan tray. One per 7250 IXR-R6 system required
7250 IXR-R6 10 x 10GE SFP+ MDA. Pluggables sold separately.
7250 IXR-R6 1 x 100GE QSFP28 + 6 x 10GE SFP+ MDA-e. Pluggables sold separately.
7250 IXR-R6 CPIOM. Up to two per system for control and forwarding.
7250 IXR-R6 20 x GE cSFP MDA. This MDA provides up to 20 1GE ports using cSFP pluggables in slots 3 & 4 of the 7250 IXR-R6. Pluggables sold separately.
7250 IXR-R6 fan filter: 5-pack
7250 IXR-R6 CPIOM impedance panel
7250 IXR-R6 MDA impedance panel
35W High Voltage ETR Power Supply - Requires a single 90-264VAC or 88 to 300VDC input, and provides a single 24VDC output to provide power to the 7705 SAR-Hm main chassis or any other low power 24V DC product. This supply is DIN rail mountable.
7750 SR-14s Chassis Spare. Includes; (1)7750 SR-14s Chassis. (1) 3HE11313AA-ACC - 7750 SR-14s ACCESSORY KIT
Impedance Panels, LVDC, AC/HVDC Power Shelf, Power Shelf Accessory kits, Rear mounting brackets, and Power Shelf interconnect kits all sold separately

CPM - 7750 SR-s CPM-14s/7s
7750 SR-7s XCM (XMA Control Module). Provides up to 4.8Tb of slot switching capacity. Accepts (1) 7750 SR-s XMA
7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)
Software scale upgradeable to ER or HE feature set. Hardware performance up to 3.6T intelligent fan-in/fan-out
7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)
Software scale upgradeable to HE feature set. Hardware performance up to 3.6T intelligent fan-in/fan-out.
7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)
Full High-Scale Edge feature set. Hardware performance up to 3.6T intelligent fan-in/fan-out.
7750 SR-14s/7s/2s XMA Impedance Panel, must be installed in each and every empty XMA slot.
7750 SR-14s XCM Impedance Panel, must be installed in each and every empty XCM-s slot.
7750 SR-14s/7s CPM Impedance Panel, must be installed in each and every empty CPM slot.
7750 SR-14s/7s Fan Tray spare
7750 SR-14s Accessory Kit, this kit includes the following;
(1) CABLE ASSY RJ45 PLUG STR TO PLUG STR SHLD LSZH CAT6 BLK 5 FT (1) CABLE ASSY RJ45 PLUG STR TO PLUG STR SHLD LSZH CAT6 BLK 7 FT (2) NUT 1/4-20 (1) CONN, LUG,#2 AWG WIRE, 1/4" BOLT HOLES, .625" SPACING, 0.5" TONGUE, DOUBLE-CRIMP, 90 DEG (1) Wrist Strap (1) 3HE12566AA ACC - SR-s CLEANING TOOL, HONEYCOMB
7750 SR-s Switch Fabric Module for the 7750 SR-14s/7s
7750 SR-14s XCM (XMA Control Module). Provides up to 9.6Tb of slot switching capacity. Accepts (2) 7750 SR-s XMA
7750 SR IOM4-e-HS (High Scale) Baseboard. Accepts up to 2 MDA-e
Full Service Routing Functionality, Full Queuing, hierarchical policing, IPv4/IPv6 routing services. Available upgrades/licenses: VPRN
7750 SR IOM4-e-HS (High Scale) Baseboard. Accepts up to 2 MDA-e
Includes "Layer-2 High Queuing" IMM Software License/functionality for full ESS functionality which includes the use of full queuing and policing with layer-2 services.
Excludes use of multicast routing protocol or services, IPv6 routing services, VPRN services (including IPv4 and IPv6 VPNs), network interfaces when installed in a chassis running the above mentioned restricted services. Available upgrades/licenses: upgrade to L3HQ
7750 SR 7-B-Slot Chassis with 7750 SR-7-B 100 Amp DC PEM-3 and 7750 SR-7 Enhanced Fan Tray + 7450 ESS SFM5-7 + CPM5 Bundle. Bundle Includes: (1) 3HE10852AA - CH-BN - 7750 SR-7-B DC w/PEM3 + EFT (1) 3HE09263AA - SFM - 7450 ESS SFM5-7 + CPM5
7450 ESS feature set utilized via a BOF command. Requires SR-OS R14.0.R6 to support 7450 ESS within this chassis.

7750 SR 12-B Slot Chassis with 7750 SR-12 175 Amp DC PEM-3 and 7750 SR-12 Enhanced Fan Tray + 7450 ESS SFM5-12 + CPM5 Bundle.

Bundle Includes:

(1) 3HE09262AA - SFM - 7450 ESS SFM5-12 + CPM5

(1) 3HE10854AA - CH-BN - 7750 SR-12-B w/PEM3 + EFT

7450 ESS feature set utilized via a BOF command. Requires SR-OS R14.0.R6 to support 7450 ESS within this chassis.

7750 SR-7/ 7450 ESS-7 INPUT POWER RATING LABEL. Required when at least one 200G card is installed in a system.

ASL VSR BGP Route Reflector - Application Software License (ASL) is required to enable BGP Route Reflector (RR) functionality on a VSR-I (integrated model) system. A bandwidth license for at least 1Gbps must also be purchased. If more than 20 Gbps of bandwidth is licensed to a system (advanced QoS or standard QoS) BGP route reflection functionality is available without the purchase of this license. This part number purchases a license that is only valid with VSR systems running 14.0R6 or later software images.

7210 SAS-K 2F6C4T, Release 20.X Base OS License / Native and MPLS Ethernet L2 VPNs License.

This is a per chassis license valid for release 20.X and must be purchased for both 7210 SAS-K 2F6C4T (non-ETR) and 7210 SAS-K 2F6C4T ETR variant. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP.

It excludes the use IP services (e.g. VPRNs and IES services).

It must also be purchased for upgrade to release 20.X. It will shipped on a SD Card

7210 SAS-K 2F6C4T, Release 21.X Base OS License / Native and MPLS Ethernet L2 VPNs License.

This is a per chassis license valid for release 21.X and must be purchased for both 7210 SAS-K 2F6C4T (non-ETR) and 7210 SAS-K 2F6C4T ETR variant. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP.

It excludes the use IP services (e.g. VPRNs and IES services).

It must also be purchased for upgrade to release 21.X. It will shipped on a SD Card

RTU - 7210 SAS-K 2F6C4T, IP services License.

This is a per chassis license and must be purchased for both 7210 SAS-K 2F6C4T (non-ETR) and 7210 SAS-K 2F6C4T ETR variant.

This is a per chassis license. It is a one-time license to enable IP services on the node. It enables support of IP services (e.g. VPRN, IES and L3 VPNs using BGP 3107).

OS - 7210 SAS-Sx 10GE/100GE variant, Release 20.X Base OS License / Native and MPLS Ethernet L2 VPNs License, Standalone Mode.

This is a per chassis license valid for release 20.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services) for operating in standalone mode. It also includes support for syncE and PTP.

It is required to operate 7210 SAS-Sx 64SFP+ 4CFP4 and 7210 SAS-Sx 64SFP+ 4QSFP28 chassis, in standalone mode.

It excludes the use IP services (e.g. VPRNs and IES services) and stacking/VC configuration.

It must also be purchased for upgrade to release 20.X.

It will shipped on a SD Card

OS - 7210 SAS-Sx 10GE/100GE variant, Release 21.X Base OS License / Native and MPLS Ethernet L2 VPNs License, Standalone Mode.

This is a per chassis license valid for release 21.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services) for operating in standalone mode. It also includes support for syncE and PTP.

It is required to operate 7210 SAS-Sx 64SFP+ 4CFP4 and 7210 SAS-Sx 64SFP+ 4QSFP28 chassis, in standalone mode.

It excludes the use IP services (e.g. VPRNs and IES services) and stacking/VC configuration.

It must also be purchased for upgrade to release 21.X.

It will shipped on a SD Card

RTU - 7210 SAS-Sx 10GE/100GE variant, IP services License, Standalone Mode.

This is a per chassis license. It is a one-time license to enable IP services on the node. It enables support of IP services (e.g. VPRN, IES and L3 VPNs using BGP 3107).

It is required to use IP services on 7210 SAS-Sx 64SFP+ 4CFP4 chassis, 7210 SAS-Sx 64SFP+ 4QSFP28 chassis and 7210 SAS-Sx 64SFP+ 4QSFP28 ETR chassis, in standalone mode.

It excludes the use of Stacking.

7210 SAS-Sx 10GE/100GE variant, Release 20.X Base OS License, Satellite Mode.

This is a per chassis license for release 20.X. It allows for operating the chassis in satellite mode.

It is required to operate 7210 SAS-Sx 64SFP+ 4CFP4 and 7210 SAS-Sx 64SFP+ 4QSFP28 chassis, in satellite mode.

It excludes the use standalone mode of operation and use of Stacking.

It must also be purchased for upgrade to release 20.X.

~~It will be shipped on a SD card.~~

7210 SAS-Sx 10GE/100GE variant, Release 21.X Base OS License, Satellite Mode.

This is a per chassis license for release 21.X. It allows for operating the chassis in satellite mode.

It is required to operate 7210 SAS-Sx 64SFP+ 4CFP4 and 7210 SAS-Sx 64SFP+ 4QSFP28 chassis, in satellite mode.

It excludes the use standalone mode of operation and use of Stacking.

It must also be purchased for upgrade to release 21.X.

~~It will be shipped on a SD card.~~

7210 RPS CHASSIS

7210 RPS Fiber Satellite Power Adaptor

7210 RPS INTERPOSER DCIN 12V 150WOUT

7705 SAR-Hm/Hmc Release 20 OS License. One (1) OS license is required for each SAR-Hm/Hmc in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at <http://libra.app.alcatel-lucent.com/>.

7705 SAR-Hm/Hmc Release 21 OS License. One (1) OS license is required for each SAR-Hm/Hmc in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at <http://libra.app.alcatel-lucent.com/>.

RTU - SAR-Hm WLAN license. Includes support for enabling WLAN services on the SAR-Hm node. One (1) OS License is required for each SAR-Hm in the network.

SYS - 7210 SAS-Sx 64SFP+ 4QSFP28 system includes;

- (1) Fixed Fans,
- (2) Replaceable Air Filters
- (2) Hot swappable power supply slots,
- (64) SFP+ (4)QSFP28 ports

Does not include power supplies.

~~Does not include 7210 SAS Operating Software or usage licences.~~

SAR-Hm with non-redundant (10-28V) DC power feed covering NAR and EMEA LTE/3G bands. IEEE 802.11b/g/n (WLAN) and GNSS receiver supported. DIN rail or panel mountable. Node has 6 10/100BASE-T RJ-45, 2 RS-232 (RJ-45) ports. OS, firewall, encryption and WLAN software licenses are sold separately. Antennas, DIN rail or other mounting hardware sold separately.

SAR-Hm with non-redundant (10-28V) DC power feed covering APAC and rest-of-world LTE/3G bands. IEEE 802.11b/g/n (WLAN) and GNSS receiver supported. DIN rail or panel mountable. Node has 6 10/100BASE-T RJ-45, 2 RS-232 (RJ-45) ports. OS, firewall, encryption and WLAN software licenses are sold separately. Antennas, DIN rail or other mounting hardware sold separately.

7250 IXR Power Supply Unit. 3KW AC/HVDC power supply (200 to 240V AC or 240 to 380V DC). 80-plus Titanium rated (94% efficiency)
7250 IXR Power Supply Unit. 3KW LVDC power supply, -48V DC
7250 IXR 48-port 10G SFP+ + 2-port QSFP28 Integrated Media Module for the IXR with MACSec (IMM48-SFP+2-QSFP28).
7250 IXR 36-port QSFP28 Integrated Media Module for the IXR with MACSec (IMM36-100G-QSFP28).
7250 IXR-6 Switch Fabric Module (SFM-IXR-6) - (Spare)
7250 IXR CPM Impedance Panel. Required if a single CPM is used.
7250 IXR IMM Impedance Panel. Required in every slot not populated by an IMM.
7250 IXR PSU Impedance Panel. Required in every PSU slot not populated by a PSU.
7250 IXR-6 Fan Tray - (Spare)
7250 IXR-6 Chassis - (Spare)
7250 IXR Control Processor Module (CPM-IXR) - (Spare)
7250 IXR Control Processor Module (CPM-IXR SSD) with 128 GB SSD - (Spare)
CBL - AC Power Cable, 250V, SAF-D-GRID to IEC C20, 3M, USA
CBL - HVDC Power Cable, 400V, SAF-D-GRID Dual, 3M
7250 IXR-10 Switch Fabric Module (SFM-IXR-10) - (Spare)
7250 IXR-10 Fan Tray - (Spare)
7250 IXR-10 Chassis - (Spare)
CBL - AC Power Cable, 250V, SAF-D-GRID to CEE 7/7, 3M, EUR
CBL - Open Ended AC Power Cable, 250V, 3M, EUR
Deepfield RADIUS Connector License
Deepfield DNS Connector License
Deepfield Generic Connector License
SYS - 210 WBX 32QSFP28, base platform. Includes Rail-Kit posts Does not include fans or power supplies
SYS - 210 WBX 48SFP28 6QSFP28, base platform Does not include fans or power supplies
PS - 210 WBX -48V DC (BtoF) supports also: 3HE15622AA SYS - 7220 IXR-D2 48SFP28 8QSFP28 3HE15623AA SYS - 7220 IXR-D3 32QSFP28 2SFP+
PS - 210 WBX AC (BtoF) supports also: 3HE15622AA SYS - 7220 IXR-D2 48SFP28 8QSFP28 3HE15623AA SYS - 7220 IXR-D3 32QSFP28 2SFP+
PS - 210 WBX AC (FtoB) supports also: 3HE15622AA SYS - 7220 IXR-D2 48SFP28 8QSFP28 3HE15623AA SYS - 7220 IXR-D3 32QSFP28 2SFP+
FAN - 210 WBX Fan (FtoB)
FAN - 210 WBX Fan (BtoF)
7750 SR 12-port 10/1GE MACSec MDA-e. Accepts twelve (12) SFP+ 10GBase or SFP 1000Base Optics Modules.
7750 SR-7s Chassis Spare. Includes; (1) 7750 SR-7s Chassis (1) 3HE12395AA -ACC - 7750 SR-7s ACCESSORY KIT
Impedance Panels, LVDC, AC/HVDC Power Shelf, Power Shelf Accessory kits, Rear mounting brackets, and Power Shelf interconnect kits all sold separately
RTU - Integrated GNSS adapter for Grandmaster functionality. IXR-R6, IXR-e retrieves clock from a GNSS satellite and becomes Grandmaster. One (1) license per IXR-R6/IXR-e in the network
7250 IXR Extends FIB to host larger number of routes Right To Use license. One (1) License is required for each IXR in the network.
RTU - L2 VPN Services including EPIPE, VPLS, EVPN, VPWS, sap2sap on Access/Hybrid ports with 40G or more capacity One (1) License is required for each IXR port in the network

RTU - L3 VPN Services including IP-VPN, IES on Access/Hybrid ports with 40G or more capacity One (1) License is required for each IXR port in the network
AC Power Cable AS/NZS 3112 to IEC 60320 C13 10A/250V 1.8 meter - Australia / New Zealand
AC Power Cable NBR 14136 Type N to IEC 60320 C13 10A/250V 1.8 meter- Brazil
AC Power Cable CPCS-CCC Type I to IEC 60320 C13 10A/250V 1.8 meter- China (excluding Hong Kong and Macau)
AC Power Cable IS 1293 to IEC 60320 C13 10A/250V 1.8 meter- India
AC Power Cable CEI 23-50 P11 to IEC 60320 C13 10A/250V 1.8 meter- Italy
AC Power Cable JIS C 8303 Class I to IEC 60320 C13 10A/250V 1.8 meter - Japan
AC Power Cable SANS 164-1 to IEC 60320 C13 10A/250V 1.8 meter- South Africa
LC-LC Single Mode Fiber cable, 6 meter length
LC-LC Single Mode Fiber cable, 12 meter length
LC-LC Single Mode Fiber cable, 3 meter length
LC-SC Single Mode Fiber cable, 6 meter length
LC-SC Single Mode Fiber cable, 12 meter length
LC-SC Single Mode Fiber cable, 3 meter length
LC-LC Multi Mode Fiber cable, 6 meter length
LC-LC Multi Mode Fiber cable, 12 meter length
LC-LC Multi Mode Fiber cable, 3 meter length
LC-SC Multi Mode Fiber cable, 6 meter length
LC-SC Multi Mode Fiber cable, 12 meter length
LC-SC Multi Mode Fiber cable, 3 meter length
Category-6 RJ45 6 meter length
Category-6 RJ45 12 meter length
Category-6 RJ45 3 meter length
DC Power Supply Cable to be used with AirFrame DC Compute Node Power Supply Units.
7210 RPS INTERPOSER DCIN 12V_450WOUT
1-port 10GBASE-BX20-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 20km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Temperature -40/85C
1-port 10GBASE-BX20-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 20km, TX: 1270 nm, RX: 1330 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Temperature -40/85C
1-port 10GBASE-BX20-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 20km, TX: 1270 nm, RX: 1330 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Temperature -40/85C
1-port 10GBASE-BX20-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 20km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Temperature -40/85C
1-port 10GBASE-BX20-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (XFP) Optics Module, Single Mode Fiber (SMF), 20km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Temperature -40/85C
1-port 10GBASE-BX20-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (XFP) Optics Module, Single Mode Fiber (SMF), 20km, TX: 1270 nm, RX: 1330 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Temperature -40/85C
1-port 100GBase-SR10 or 10-port 10GBase SR QSFP28 Optic Module, 100M, MMF, MPO, RoHS 6/6, Digital Diagnostic Monitor (DDM), 0/70C
SYS - 210 WBX 32QSFP28, DC System, Back to Front Includes; (1) 3HE11881AB SYS - 210 WBX 32QSFP28, base platform (2) 3HE11883AA PS - 210 WBX -48V DC (BtoF) (5) 3HE11888AA FAN - 210 WBX Fan Tray (BtoF) (1) 3HE14104AA ACC – Rail-kit (fits 19" RM and 21" OR Rack)
SYS - 210 WBX 32QSFP28, DC System, Front to Back Includes; (1) 3HE11881AB SYS - 210 WBX 32QSFP28 base platform (2) 3HE10837AA PS - 210 WBX, 7210 Sx 100G -48VDC (FtoB) (5) 3HE11887AA FAN - 210 WBX Fan (FtoB) (1) 3HE14104AA ACC – Rail-kit (fits 19" and 21" OR Rack)

<p>SYS - 210 WBX 32QSFP28, AC System, Back to Front Includes;</p> <p>(1) 3HE11881AB SYS - 210 WBX 32QSFP28 base platform</p> <p>(2) 3HE11885AA PS - 210 WBX AC (BtoF)</p> <p>(5) 3HE11888AA FAN - 210 WBX Fan Tray (BtoF)</p> <p>(1) 3HE14104AA ACC – Rail-kit (fits 19" RM and 21" OR Rack)</p>
<p>SYS - 210 WBX 32QSFP28, AC System, Front to Back Includes;</p> <p>(1) 3HE11881AB SYS - 210 WBX 32QSFP28 base platform</p> <p>(2) 3HE11886AA PS - 210 WBX -AC (FtoB)</p> <p>(5) 3HE11887AA FAN - 210 WBX Fan (FtoB)</p> <p>(1) 3HE14104AA ACC – Rail-kit (fits 19" RM and 21" OR Rack)</p>
<p>SYS - 210 WBX 48SFP28 6QSFP28, DC system, Back to Front Includes;</p> <p>(1) 3HE11882AA SYS - 210 WBX 48SFP28 6QSFP28 base platform</p> <p>(2) 3HE11883AA PS - 210 WBX -48V DC (BtoF)</p> <p>(4) 3HE11888AA FAN - 210 WBX Fan (BtoF)</p>
<p>SYS - 210 WBX 48SFP28 6QSFP28, DC System, FtoB</p> <p>(1) 3HE11882AA SYS - 210 WBX 48SFP28 6QSFP28 base platform</p> <p>(2) 3HE10837AA PS - 210 WBX, 7210 Sx 100G -48VDC (FtoB)</p> <p>(4) 3HE11887AA FAN - 210 WBX Fan Tray (FtoB)</p>
<p>SYS - 210 WBX 48SFP28 6QSFP28, AC system, Back to Front Includes;</p> <p>(1) 3HE11882AA SYS - 210 WBX 48SFP28 6QSFP28 base platform</p> <p>(2) 3HE11885AA PS - 210 WBX AC (BtoF))</p> <p>(4) 3HE11888AA FAN - 210 WBX Fan (BtoF)</p>
<p>SYS - 210 WBX 48SFP28 6QSFP28, AC System, FtoB</p> <p>(1) 3HE11882AA SYS - 210 WBX 48SFP28 6QSFP28 base platform</p> <p>(2) 3HE11886AA PS - 210 WBX AC (FtoB)</p> <p>(4) 3HE11887AA FAN - 210 WBX Fan Tray (FtoB)</p>
<p>Nuage perpetual RTU License for 210 WBX (either 3HE11881 or 3HE11882 hardware model)</p>
<p>1-port 100GBase LR4 QSFP28 Optics Module, 10km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), - 40/85C</p>
<p>1-port 100GBase CWDM4 QSFP28 Optics Module, 2km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), - 40/85C</p>
<p>Ideal for Outdoor GNSS installation. Includes 1 x 25 ft (7.6 m) LMR400 Coax cable, 1 x Coax grounding kit, 1 x surge protector (N-type Male to Female), 1 x surge protector grounding lug and 1 x GNSS Antenna (3HE12347AA) mount kit .</p>
<p>Indoor/Outdoor GNSS installation kit, includes:</p> <p>(2) 25 ft (7.6 m) LMR400 Coax cables,</p> <p>(2) Coax grounding kits,</p> <p>(1) surge protector (N-type Female to Female)</p> <p>(1) surge protector grounding lug.</p>
<p>Indoor/Outdoor GNSS installation kit includes</p> <p>(1) 100 ft (30.5 m)</p> <p>(1) 25 ft (7.6 m) LMR400 Coax cables,</p> <p>(2) Coax grounding kits,</p> <p>(1) surge protector (N-type Female to Female)</p> <p>(1) surge protector grounding lug.</p>
<p>Indoor/Outdoor GNSS installation kit includes:</p> <p>(1) 300 ft (91.4 m)</p> <p>(1) 25 ft (7.6 m) LMR400 Coax cables,</p> <p>(4) Coax grounding kits,</p> <p>(1) surge protector (N-type Female to Female)</p> <p>(1) surge protector grounding lug.</p>
<p>7750 SR-1 Integrated DC System, Core Router feature set, the 3HE12302AA - ACC - 7750 SR-1 DC Accessory Kit and a 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP are included with this item. Fan tray sold separately</p>
<p>7750 SR-1 Integrated DC System, Edge Router Feature set, the 3HE12302AA - ACC - 7750 SR-1 DC Accessory Kit and a 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP are included with this item. Fan tray sold separately.</p>

7750 SR-1 Integrated DC System, High Scale Edge feature set, the 3HE12302AA - ACC - 7750 SR-1 DC Accessory Kit, and a 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP are included with this item. Fan tray sold separately.
7750 SR-1 AC System, Core Router feature set, the 3HE12303AA - ACC - 7750 SR-1 AC Accessory kit and a 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP are included with this item. Fan tray sold separately
7750 SR-1 AC System, Edge Router Feature set, the 3HE12303AA - ACC - 7750 SR-1 AC Accessory kit and a 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP are included with this item. Fan tray sold separately
7750 SR-1 AC System, High Scale Edge feature set, the 3HE12303AA - ACC - 7750 SR-1 AC Accessory kit and a 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP are included with this item. Fan tray sold separately.
7750 SR-1 Fan Tray
7750 SR-1 AC Power Supply
7750 SR-1 Accessory kit DC kit (Includes, wriststrap, grounding and power lugs, mounting hardware)
7750 SR-1 Accessory kit AC kit (Includes, wriststrap, lugs, mounting hardware)
7750 SR-1 Air filter mounting kit Qty 1-- Kit comes with one filter media included.
7750 SR-1 Air filter media kit Qty 5
7705 SAR-Hm outdoor enclosure. Pole/Wall mountable (bracket sold separately). IP66/IP67 rated. Includes 2 x 4.3-10 (F) bulkhead connectors/cables preinstalled. Supports another 2 x N-Type bulkhead terminations (sold separately). Can house 1 x 7705-SAR-Hm, 1 x HV-PS35.
7705 SAR-Hm outdoor enclosure. Pole/Wall mountable (bracket sold separately). IP66/IP67 rated. Includes 2 x N-Type (F) bulkhead connectors/cables preinstalled. Supports another 2 x N-Type bulkhead terminations (sold separately). Can house 1 x 7705-SAR-Hm, 1 x HV-PS35.
Pole/Wall Mounting bracket for the 7705 SAR-Hm/SAR-Hmc Enclosure (3HE12311AA, 3HE12311BA, 3HE12555BA). Includes hardware to attach to the enclosure. Pole/Wall mounting hardware are not supplied.
7750 SR-7s CMA dual (Control Mechanical Adapter). Accepts (2) 7750 SR-s CPMs
7750 SR-14s CMA (Control Mechanical Adapter). Accepts (2) 7750 SR-s CPMs
CABLE,LMR240, SMA TO N-TYPE (FEMALE),1M
7750 SR-7s CMA single (Control Mechanical Adapter). Accepts (1) 7750 SR-s CPMs
7750 SR-14s/7s Power Shelf Accessory kit, this this accessory is required for all 7750 SR-14s/7s with a single LVDC power shelf, including the following components for the LVDC Power Shelf. (6) SCREW, 8-32 X .375 PHIL FLAT HD, 100DEG (20) SCREW 1/4-20 X 5/8 HEX (12) SCREW 8-32 X 3/8 HEX (1) BUS BAR ADAPTER NEG 1X (1) BUS BAR ADAPTER POS 1X (1) BRACKET RACK MT LVDC-R (1) BRACKET RACK MT LVDC-R L (1) BRACKET TIE POINT POWER SHELF L (1) BRACKET TIE POINT POWER SHELF R (1) BASE ASSY BB SHIELD LVDC (1) COVER ASSY BB SHIELD 1X
7750 SR-14s/7s Dual LVDC Power Shelf Accessory kit, this this accessory is required for all 7750 SR-14s/7s with a two LVDC power shelf, including the following components for the LVDC Power Shelves. (1) CABLE ASSY RJ45 PLUG STR TO PLUG STR SHLD LSZH CAT6 BLK 3 FT (12) SCREW, 8-32 X .375 PHIL FLAT HD, 100DEG (32) SCREW 1/4-20 X 5/8 HEX (20) SCREW 8-32 X 3/8 HEX (2) BRACKET RACK MT LVDC-R (1) BUS BAR ADAPTER NEG (1) BUS BAR ADAPTER POS (2) BRACKET RACK MT LVDC-R L (1) BRACKET TIE POINT POWER SHELF L (1) BRACKET TIE POINT POWER SHELF R (2) BRACKET STRAP POWER SHELF (2) BASE ASSY BB SHIELD LVDC (1) COVER ASSY BB SHIELD
7750 SR-12e Switch Fabric Module (SFM6-12e)
7750 SR-12e mini- Switch Fabric Module (mini-SFM6-12e)

7750 SR IOM5-e, 1x FP4 complex, performance restricted to 1.5T FD, accepts two (2) MDA-e-XP. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)
This card is based off "3HE12332xA - IOM - 7750 SR IOM5-e" licensed to 1.5T throughput.
Software scale upgradeable to ER or HE feature set.
7750 SR-7/12-B - licensed to 800G non-redundant throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP & 6pt QSFP-DD MDA-e-XP are not supported
7750 SR-12e - licensed to 1.5T throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions
7750 SR IOM5-e, 1x FP4 complex, performance restricted to 1.5T FD, accepts two (2) MDA-e-XP. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)
This card is based off "3HE12332xA - IOM - 7750 SR IOM5-e" licensed to 1.5T throughput.
Software scale upgradeable to HE feature set.
7750 SR-7/12-B - licensed to 800G non-redundant throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP & 6pt QSFP-DD MDA-e-XP are not supported
7750 SR-12e - licensed to 1.5T throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions
7750 SR IOM5-e, 1x FP4 complex, performance restricted to 1.5T FD, accepts two (2) MDA-e-XP. High-Scale Edge (HE) no restrictions on h/w queues or egress policers
Full High-Scale Edge feature set (HE) licenses on this part number does not restrict hardware queues or egress policers.
7750 SR-7/12-B - licensed to 800G non-redundant throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP & 6pt QSFP-DD MDA-e-XP are not supported
7750 SR-12e - licensed to 1.5T throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions
7750 SR 6-ports 10/40/100GBASE MDA-e-XP. Accepts six (6) 10/40/100GBase Optic Module QSFP+/QSFP28.
7750 SR 12-ports 10/40/100GBASE MDA-e-XP. Accepts twelve (12) 10/40/100GBase Optic Module QSFP+/QSFP28.
7750 SR SFM6-7/12 (Switch Fabric Module) for the 7750 SR-7 and 7750 SR-12 chassis.
Chassis Spare - 7750 SR-2s chassis + LVDC Power Shelf. Includes; 7750 SR-2s Chassis + LVDC Power Shelf and accessory kit.
Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), Accessory kit for LVDC, Lug Kit and optional air filter kit
Chassis Spare - 7750 SR-2s chassis + AC/HVDC Power Shelf. Includes; 7750 SR-2s Chassis + AC/HVDC Power Shelf and accessory kit.
Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), Power Cords and optional air filter kit
Omni directional antenna. 30"Height x 1"Diameter (75 cm x 3 cm). 2dBi/3dBi gain for 694-960 MHz/1700-2700 MHz respectively. 2 x N-Female connectors for MIMO support. Suitable for outdoor deployments. U-bolt kit included for pipe mounting.
Directional antenna.12"L x 12"W x 4.4"D (30.5 cm x 30.5 cm x 11.2 cm). 6dBi/8dBi gain for 698-960 MHz/1710-2700 MHz. 2 x N-Type female connectors for MIMO support. Suitable for outdoor deployments. Kit for pipe mounting included.
Indoor WiFi Omni Directional Antenna. 3dBi gain for 2.4GHz/5.1~5.85GHz. Screw mount Dipole Antenna with RP-SMA male connector. Mounts directly to the 7705 SAR-Hm. (10 antennas per)
Outdoor WiFi omni-directional antenna. 2 dBi gain for 2.4-2.5 GHz/4.9-5.9 GHz frequency range. Mounts directly to an N-Type bulk-head of the 7705 SAR-Hm enclosure (3HE12311AA/3HE12311BA). Can also be mounted to pole/wall with bracket (sold separately)
Small GNSS antenna designed to mount directly on an N-Type bulk-head of the 7705 SAR-Hm enclosure (3HE12311AA). Can also be mounted to pole/wall with bracket (sold separately)
Bulk-head connector for 4.3-10 terminations on the 7705 SAR-Hm enclosure (3HE12311AA/3HE12311BA). 5 per box.
Bulk-head connector for N-Type terminations on the 7705 SAR-Hm enclosure (3HE12311AA/3HE12311BA). 5 per box.
N-Type bulkhead cap for the 7705 SAR-Hm enclosure (3HE12311AA/3HE12311BA). 10 per box.
CABLE,LDF4-50A 1/2",N(MALE) TO N(MALE) LOOSE,25FT
CABLE,LDF4-50A 1/2",N(MALE) TO N(MALE) LOOSE,50FT
CABLE,LDF4-50A 1/2",N(MALE) TO N(MALE) LOOSE,100FT
CABLE,LDF4-50A 1/2",4.3-10(MALE) TO 4.3-10(MALE) LOOSE,25FT

CABLE,LDF4-50A 1/2",4.3-10(MALE) TO 4.3-10(MALE) LOOSE,50FT
CABLE,LDF4-50A 1/2",4.3-10(MALE) TO 4.3-10(MALE) LOOSE,100FT
1/2" RF coax grounding kit (includes grounding clamp and cable; butyl rubber tape; PVC tape)
LTE Surge Protector (4.3-10/male – 4.3-10/female) (for Outdoor enclosure)
LTE Surge Protector (N/female - N/female) (for Indoor/ Outdoor applications)
LTE Surge Protector (N/male - N/female) (for Outdoor enclosure)
7750 SR-14s/7s Single AC/HVDC Power Shelf Accessory kit, this this accessory is required for all 7750 SR-14s/7s with a single AC/HVDC power shelf, including the following components for the AC/HVDC Power Shelf.
(6) SCREW, 8-32 X .375 PHIL FLAT HD (20) SCREW 1/4-20 X 5/8 HEX HD (12) SCREW 8-32 X 3/8 HEX HD (1) BUS BAR ADAPTER NEG (1) BUS BAR ADAPTER POS (1) BRACKET RACK MT HVDC/AC-R R (1) BRACKET RACK MT HVDC/AC-R L (1) BRACKET TIE POINT POWER SHELF L (1) BRACKET TIE POINT POWER SHELF R (1) COVER ASSY BB SHIELD
(1) BASE ASSY BB SHIELD HVDC/AC
7750 SR-14s/7s Dual AC/HVDC Power Shelf Accessory kit, this this accessory is required for all 7750 SR-14s/7s with a two AC/HVDC power shelf, including the following components for the AC/HVDC Power Shelves.
(1) CABLE ASSY RJ45 PLUG STR TO PLUG STR SHLD LSZH CAT6 BLK 3 FT (12) SCREW, 8-32 X .375 PHIL FLAT HD (32) SCREW 1/4-20 X 5/8 HEX HD (20) SCREW 8-32 X 3/8 HEX HD (1) BUS BAR ADAPTER NEG (1) BUS BAR ADAPTER POS (2) BRACKET RACK MT HVDC/AC-R R (2) BRACKET RACK MT HVDC/AC-R L (1) BRACKET TIE POINT POWER SHELF L (1) BRACKET TIE POINT POWER SHELF R (2) BRACKET STRAP POWER SHELF (1) COVER ASSY BB SHIELD HVDC/AC
(2) BASE ASSY BB SHIELD HVDC/AC
7750 SR-14s/7s LVDC+ AC/HVDC Power Shelf Accessory kit, this this accessory is required for all 7750 SR-14s/7s with both a LVDC and an AC/HVDC power shelf, including the following components for the Power Shelves.
(1) CABLE ASSY RJ45 PLUG STR TO PLUG STR SHLD LSZH CAT6 BLK 3 FT (12) SCREW, 8-32 X .375 PHIL FLAT HD (32) SCREW 1/4-20 X 5/8 HEX HD (20) SCREW 8-32 X 3/8 HEX HD (1) BRACKET RACK MT LVDC-R (1) BUS BAR ADAPTER NEG (1) BUS BAR ADAPTER POS (1) BRACKET RACK MT HVDC/AC-R R (1) BRACKET RACK MT LVDC-R L (1) BRACKET RACK MT HVDC/AC-R L (1) BRACKET TIE POINT POWER SHELF L (1) BRACKET TIE POINT POWER SHELF R (2) BRACKET STRAP POWER SHELF (1) BASE ASSY BB SHIELD LVDC (1) COVER ASSY BB SHIELD
Screw mount dipole omni directional antenna with SMA (Male) connector. 698MHz to 960MHz, 1710MHz to 2690Mhz. Mounts directly to the 7705 SAR-Hm. (10 antennas per)
FAN - 7750 SR-2s Fan Module
7750 SR-1s Fan Tray spare

<p>7750 SR-7s XCM Impedance Panel, must be installed in each and every empty XCM-s slot.</p> <p>7750 SR-2s XCM (XMA Control Module). Provides up to 4.8Tb of slot switching capacity. Accepts (1) 7750 SR-s XMA.</p> <p>Important Rules;</p> <ul style="list-style-type: none"> - Using the 2, 3, or 4-complex XMA-s requires both XCM-2s cards for 100% line-rate traffic on all ports simultaneously. - If using IOM-s-1.5T or IOM-s-3.0T only a single XCM-2s is required for 100% line-rate traffic.
<p>7250 IXR-6 Gen 2 Switch Fabric Module (SFM2-IXR-6) - (Spare)</p> <p>7250 IXR-R6 Accessory Kit</p> <p>Includes: Mounting Hardware, Wrist Strap, 5' Null Cable DB9F - RJ45</p> <p>7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>This card is based off "3HE11307xA - XMA - SR-s 2.4T 36pt QSFP28 to 3.6T" licensed to 2.4T throughput and 24-connectors hard license enabled.</p> <p>Software scale upgradeable to ER or HE feature set.</p> <p>Hardware performance upgradeable from 2.4T or 3.6T intelligent fan-in/fan-out.</p>
<p>7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>This card is based off "3HE11307xA - XMA - SR-s 2.4T 36pt QSFP28 to 3.6T" licensed to 2.4T throughput and 24-connectors hard license enabled.</p> <p>Software scale upgradeable to HE feature set.</p> <p>Hardware performance upgradeable from 2.4T or 3.6T intelligent fan-in/fan-out.</p>
<p>7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)</p> <p>This card is based off "3HE11307xA - XMA - SR-s 2.4T 36pt QSFP28 to 3.6T" licensed to 2.4T throughput and 24-connectors hard license enabled.</p> <p>Full High-Scale Edge feature set.</p> <p>Hardware performance upgradeable from 2.4T or 3.6T intelligent fan-in/fan-out.</p>
<p>7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>This card is based off "3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T" licensed to 3.6T throughput and 36-connectors hard license enabled.</p> <p>Software scale upgradeable to ER or HE feature set.</p> <p>Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.</p>
<p>7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>This card is based off "3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T" licensed to 3.6T throughput and 36-connectors hard license enabled.</p> <p>Software scale upgradeable to HE feature set.</p> <p>Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.</p>

7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This card is based off "3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T" licensed to 3.6T throughput and 36-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.~~

7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This card is based off "3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.~~

7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to HE feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.~~

7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This card is based off "3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T" licensed to 3.6T throughput and 36-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.~~

7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP56-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This card is based off "3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T" licensed to 4.8T throughput and 36-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable to 12T intelligent fan-in/fan-out.~~

7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP56-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T" licensed to 4.8T throughput and 36-connectors hard license enabled.

Software scale upgradeable to HE feature set.

~~Hardware performance upgradeable to 12T intelligent fan-in/fan-out.~~

<p>7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP56-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)</p> <p>This card is based off "3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T" licensed to 4.8T throughput and 36-connectors hard license enabled.</p> <p>Full High-Scale Edge feature set.</p> <p><u>Hardware performance upgradeable to 12T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP56-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>Full High-Scale Edge feature set.</p> <p><u>Hardware performance up to 12T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP56-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>Full Edge Router feature set.</p> <p><u>Hardware performance up to 12T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP56-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)</p> <p>Full High-Scale Edge feature set.</p> <p><u>Hardware performance up to 12T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-7s Accessory Kit, this kit includes the following;</p> <p>(2) CABLE ASSY RJ45 PLUG STR TO PLUG STR SHLD LSZH CAT6 BLK 5 FT</p> <p>(2) NUT 1/4-20</p> <p>(1) CONN, LUG,#2 AWG WIRE, 1/4" BOLT HOLES, .625" SPACING, 0.5" TONGUE, DOUBLE-CRIMP, 90 DEG</p> <p>(1) WRIST STRAP</p> <p>(1) 3HE12566AA ACC - SR-s CLEANING TOOL, HONEYCOMB</p>
<p>7750 SR 2-ports 10/25/40/100GBASE MDA-e. Accepts two (2) QSFP+/QSFP28 100GBase Optic Module, supports MACsec.</p> <p>DTE cable to connect from the 12 port SDiv3 (3HE03391AC) or SDiv3 conformal coated version (3HE03391BC) to the distribution panels (SCSI-SCSI). One cable per pair of connectors on the SDiv3 as required (connect upto 4 ports).</p> <p>DCE cable to connect from the 12 port SDiv3 (3HE03391AC) or SDiv3 conformal coated version (3HE03391BC) to the distribution panels (SCSI-SCSI). One cable per pair of connectors on the SDiv3 as required (connect upto 4 ports).</p> <p>Replacement air filters kit (qty 10) for 10 x SR-7s chassis or for 5 x 14s chassis (2 per chassis) worth</p> <p>Accessory Kit - 7750 SR-1 ETSI rack mount kit</p> <p>6 port (2 x 10G SFP+, 4 x 1G – SFP) Ethernet 10Gbps card. Optics (SFP, SFP+) are sold separately. This card is supported in both -48 VDC and +24 VDC systems. No Encryption.</p> <p>Conformal Coated Variant of 6 port (2 x 10G SFP+, 4 x 1G – SFP) Ethernet 10Gbps card. Optics (SFP, SFP+) are sold separately. This card is supported in both -48 VDC and +24 VDC systems. No Encryption.</p> <p>This kit includes everything required for GNSS installation kit (3HE12293AA, 3HE12293BA, 3HE12293CA, 3HE12293DA) customization. Cutter, crimper, stripper & midspan stripper included.</p> <p>4-Port RS232 Distribution Panel for the SDiv3</p> <p>4-Port RS530 Distribution Panel for the SDiv3</p> <p>4-Port X.21 Distribution Panel for the SDiv3</p> <p>4-Port V.35 Distribution Panel for the SDiv3</p> <p>7250 IXR-10 Gen2 Switch Fabric Module (SFM2-IXR-10) - (Spare)</p> <p>Jumper cable for WiFi port of the 7705 SAR-Hm enclosure (3HE12311AA/3HE12311BA). 10 per box.</p> <p>Jumper cable for GNSS port of the 7705 SAR-Hm enclosure (3HE12311AA/3HE12311BA). 10 per box.</p> <p>LDF4 1/2" cable strip tool</p> <p>7250 IXR Control Processor Module (CPM2-IXR SSD) with 240 GB SSD - (Spare)</p>

<p>7750 SR-14s air filter door kit, this is an optional kit for customers to deploy with an air filter door for the 7750 SR-14s, this kit includes the following;</p> <ul style="list-style-type: none"> (1) GROUND STRAP, FILTER DOOR, RA-7/14S (1) Left upright assembly-with wrapper, filter door kit (1) Right upright assembly-with wrapper, filter door kit (1) Cross Bar assembly top (1) Cross Bar assembly bottom (1) Air filter door (4) Alignment pins (16) 6-32 x 1/2 screws (8) 6-32 x 1/4 screws (2) Air intake filters (4) 10-32 x 3/8 screws
<p>7750 SR-7s air filter door kit, this is an optional kit for customers to deploy with an air filter door for the 7750 SR-7s, this kit includes the following;</p> <ul style="list-style-type: none"> (1) GROUND STRAP, FILTER DOOR, RA-7/14S (1) Left upright assembly-with wrapper, filter door kit (1) Right upright assembly-with wrapper, filter door kit (1) Cross Bar assembly top (1) Cross Bar assembly bottom (1) Air filter door (4) Alignment pins (12) 6-32 x 1/2 screws (4) 6-32 x 1/4 screws Phil (4) 6-32 x 1/4 screws Flat (4) 10-32 x 3/8 screws (1) Air intake filter
Spare SD card (16GB). -40 to 85C, SLC.
Power jumper designed for the 7250 IXR-R6, mountable to frame or other suitable location
Power jumper designed for the 7250 IXR-R6, with 1RU rack mount bracket
7750 SR-14s/7s Qty 1 LVDC Power Shelf lug kit, this kit is required for all 7750 SR-14s/7s systems in which are power by LVDC Power Shelves, includes the following;
(40) NUT 1/4-20
(20) CONN, LUG,#2 AWG WIRE, 1/4" BOLT HOLES, .625" SPACING, 0.5" TONGUE, DOUBLE-CRIMP, 90 DEG
7750 SR-14s Rear Chassis Rackmount kit, includes the following;
(4) SCREW 8-32 X 3/8 HEX HD
(2) BRACKET ASSY RACK MT REAR
7750 SR-7s Rear Chassis Rackmount kit, includes the following;
(4) SCREW 8-32 X 3/8 HEX HD
(2) BRACKET ASSY, RACK MOUNT, REAR 7s
7705 SAR-Hmc with 9-60V DC power feed and covering NAR LTE frequencies, including the CBRS band. System supports LTE Cat4 connectivity with Main and diversity, and a GNSS input for location. Supports 3 x 10/100 Mbps RJ45 and 2 x RS232 in a single RJ45. Can be DIN/panel/wall/shelf mounted, and includes DIN Rail mounting clip. Antennas, mounting hardware, OS and other RTU licenses are sold separately.
7705 SAR-Hmc with 9-60V DC power feed and covering North American LTE/3G wireless frequencies, including the CBRS band. System supports LTE Cat7/Cat13 DL/UL connectivity with Main and diversity, and a GNSS input for location. Supports 3 x 10/100 Mbps RJ45 and 2 x RS232 in a single RJ45. Can be DIN/panel/wall/shelf mounted, and includes DIN Rail mounting clip. Antennas, mounting hardware, OS and other RTU licenses are sold separately.
7705 SAR-Hmc with 9-60V DC power feed with LTE/3G wireless frequencies. System supports LTE Cat7/Cat13 DL/UL connectivity with Main and diversity, and a GNSS input for location. Supports 3 x 10/100 Mbps RJ45 and 2 x RS232 in a single RJ45. Can be DIN/panel/wall/shelf mounted, and includes DIN Rail mounting clip. Antennas, mounting hardware, OS and other RTU licenses are sold separately.
APEQ-AC-4400 Advanced Power Equalizer Module. Accepts two redundant feeds
2RU kit to convert the 7250 IXR-R6 airflow from right-to-left to front-to-back. Note that this may derate the maximum supported ambient temperatures on the 7250 IXR-R6.
7250 IXR-R4 Chassis. 4 MDA slots, 2 CPM slots, 1 IOM slot, 1 Fan tray slot and 1 fan filter slot. No fan tray and impedance panels included.
7250 IXR-R4 fan tray. One per 7250 IXR-R4 system required
7250 IXR-R4 fan filter: 5-pack

8-Port C37.94 Teleprotection Card. Supports multi- and single-mode C37.94 optics. Optics sold separately.
Conformal coated 8-Port C37.94 Teleprotection Card. Supports multi- and single-mode C37.94 optics. Optics sold separately.
7750 SR-2s Rear Mounting Hardware Kit
7750 SR-1s Rear Mounting Hardware Kit
APEQ-HVDC-4400 High Voltage DC Advanced Power Equalizer Module. Accepts two redundant feeds
7750 SR-s IOM-s (Input/Output Module) 1.6T IOM-s Core Routing, accepts two modular MDA-s, 2x FP4 complex, CR (Core Router) feature set. MDA-s impedance panels needs to be added separately. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)
This card is based off "3HE14027xA - XMA - IOM-s - SR-s IOM-s 3.0T"
Software scale upgradeable to ER or HE feature set.
<u>Hardware performance upgradeable from 2.4T to 3.0T.</u>
7750 SR-s IOM-s (Input/Output Module) 1.6T IOM-s Edge Routing, accepts two modular MDA-s, 2x FP4 complex, ER (Edge Router) feature set. MDA-s impedance panels needs to be added separately. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)
This card is based off "3HE14027xA - XMA - IOM-s - SR-s IOM-s 3.0T"
Software scale upgradeable to ER or HE feature set.
<u>Hardware performance upgradeable from 2.4T or 3.0T.</u>
7750 SR-s IOM-s (Input/Output Module) 1.6T IOM-s High-Scale Edge Routing, accepts two modular MDA-s, 2x FP4 complex, HE (High-Scale Edge) feature set. MDA-s impedance panels needs to be added separately. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)
This card is based off "3HE14027xA - XMA - IOM-s - SR-s IOM-s 3.0T"
Full High-Scale Edge feature set
<u>Hardware performance upgradeable from 2.4T or 3.0T.</u>
7750 SR-s 18-ports 10/40/100GBASE MDA-s. Accepts (18) 10/40/100GBase Optic Module QSFP+/QSFP28.
7750 SR-s 6-port CFP2-DCO MDA-s. 100 Gbps transmission using QPSK modulation for metro-core and long-haul applications and 200 Gbps (2x100G) for metro-access applications. Accepts six (6) CFP-DCO Optic Module.
7750 SR-s 16-ports SFP-DD (10/25/100G) + 4-ports QSFP28 (10/40/100G) MDA-s. Accepts (16) 10/25/100GBase Optic Module SFP+/SFP28/SFP-DD + (4) 10/40/100GBase Optic Module QSFP+/QSFP28.
7750 SR-s 24-ports 10/100GBASE MDA-s. Accepts (24) 10/100GBase Optic Module SFP+/SFP-DD.
7750 SR-s 4-ports QSFP56-DD (10/40/100/400G) + 4-ports QSFP28 (10/40/100G) MDA-s. Accepts (4) 10/40/100/400GBase Optic Module QSFP+/QSFP28/QSFP28-DD/QSFP56-DD + 4-ports QSFP+/QSFP28.
7250 IXR-R6 4 x 10GE SFP+ + 1 x100GE CFP2 MDA. Pluggables sold separately.
ACC – 7750 SR-2s Air Filter Kit Qty 1
The Filter kit is highly recommend for every installation and therefore, should be order with each system
Multi-mode LC-to-ST connectors for the 8-port C37.94 Teleprotection Card (3HE12504AA/3HE12504BA). Pack of 5 cables.
7250 IXR-6/10 Gen2 IMM supporting 32-port 100 GE QSFP28 + 4-port 400GE QSFP-DD. Pluggables sold separately.
7250 IXR-R6 6 x 10GE SFP+ + 4 x 25GE SFP28 MDA. Pluggables sold separately.
7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance restricted to 600G FD, port restricted to 6-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)
This card is based off "3HE12526xA - XMA - SR-s 1.2T 18pt QSFP28" licensed to 600G throughput and 6-connectors hard license enabled.
Software scale upgradeable to ER or HE feature set.
<u>Hardware performance upgradeable from 0.6T to 1.2T or 1.8T intelligent fan-in/fan-out.</u>

7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance restricted to 600G FD, port restricted to 6-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE12526xA - XMA - SR-s 1.2T 18pt QSFP28" licensed to 600G throughput and 6-connectors hard license enabled.

Software scale upgradeable to HE feature set.

~~Hardware performance upgradeable from 0.6T to 1.2T or 1.8T intelligent fan-in/fan-out.~~

7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance restricted to 600G FD, port restricted to 6-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This card is based off "3HE12526xA - XMA - SR-s 1.2T 18pt QSFP28" licensed to 600G throughput and 6-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 0.6T to 1.2T or 1.8T intelligent fan-in/fan-out.~~

7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance restricted to 1.2T FD, port restricted to 12-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This card is based off "3HE12526xA - XMA - SR-s 1.2T 18pt QSFP28" licensed to 1.2T throughput and 12-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 1.2T or 1.8T intelligent fan-in/fan-out.~~

7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance restricted to 1.2T FD, port restricted to 12-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE12526xA - XMA - SR-s 1.2T 18pt QSFP28" licensed to 1.2T throughput and 12-connectors hard license enabled.

Software scale upgradeable to HE feature set.

~~Hardware performance upgradeable from 1.2T or 1.8T intelligent fan-in/fan-out.~~

7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance restricted to 1.2T FD, port restricted to 12-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This card is based off "3HE12526xA - XMA - SR-s 1.2T 18pt QSFP28" licensed to 1.2T throughput and 12-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 1.2T or 1.8T intelligent fan-in/fan-out.~~

7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance to 1.2T FD, Aggregation mode up to 18-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

Software scale upgradeable to ER or HE feature set.

Hardware performance up to 1.8T intelligent fan-in/fan-out

7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance to 1.2T FD, Aggregation mode up to 18-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

Software scale upgradeable to HE feature set.

Hardware performance up to 1.8T intelligent fan-in/fan-out.

7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance to 1.2T FD, Aggregation mode up to 18-connectors Universal QSPF28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)
Full High-Scale Edge feature set.
Hardware performance up to 1.8T intelligent fan-in/fan-out.
7750 SR-2s XCM-2s IMPEDANCE PANEL Kit which includes the 3HE11309AA XMA-s impedance panel
7750 SR-2s CPM-2s IMPEDANCE PANEL
1-port C37.94 SR Multimode Fiber (MMF), 2km, 850 nm, LC Connector, RoHS 6/6 compliant, Extended Temperature -40/85C
1-port C37.94 SR Single mode Fiber (SMF), 20km, 1310 nm, LC Connector, RoHS 6/6 compliant, Extended Temperature -40/85C
7250 IXR-R4 CPM. Two required per system for control redundancy.
7250 IXR-R4 IOM. One required per system. Supports 2 x 10GE SFP+/SFP and 10 x 1GE SFP ports. Pluggables sold separately.
7250 IXR-R4 Accessory Kit Includes: Mounting Hardware, Wrist Strap, 5' Null Cable DB9F - RJ45
Power backup module for the 7705 SAR-Hm family. Includes enclosure, smart controller/charger, 7.2Ah battery, AC/DC adapter. Battery replacement for 3HE12552AA. 7.2 Ah VRLA battery.
7705 SAR-Hmc 1-to-2 RJ45 serial Y-cable. 5 per pack.
7705 SAR-Hmc outdoor enclosure. Pole/Wall mountable (bracket sold separately). IP66/IP67 rated. Includes 2 x N-Type (F) bulkhead connectors/cables preinstalled. Supports another 2 x N-Type bulkhead terminations (sold separately). Can house 1 x 7705-SAR-Hmc, 1 x HV-PS35.
CPM2-14s/7s (Control Processor Module) for the 7750 SR-14s & 7s platforms. Supported in the CMA2-14s (3HE12561AA) and CMA2-7s (3HE12560AA)
7750 SR-s CMA2-7s (Control Mechanical Adapter). Accepts (2) 7750 SR-s CPMs-14s/7s (3HE12559AA)
7750 SR-s CMA2-14s (Control Mechanical Adapter). Accepts (2) 7750 SR-s CPMs-14s/7s (3HE12559AA)
7250 IXR-6 SRLinux System License 19.x – one per system
7250 IXR-6 SR Linux System license 21.x – one per system requiring base level functionality. Supplied with media.
Spare Accessory kit for the 7750 SR-s Cleaning tool, honeycomb. With 6 tape-stacks for cleaning up to 288 vents.
Spare Accessory kit for the 7750 SR-1 Cleaning tool, honeycomb. With 6 tape-stacks for cleaning up to 288 vents.
SYS - 7250 IXR-s
PS - 7250 IXR AC Power Supply, fits the 7250 IXR-s system.
PS - 7250 IXR DC Power Supply, fits the IXR-s system
Fan - 7250 IXR Fan, fits the 7250 IXR-s system
IOM4-e/-B RTU License Upgrade from L2HQ to L3HQ for IOM4-e/-B IMM . RTU license upgrade is tied to the specific IOM4-e/-B line card for which it is purchased. Customers are required to provide the serial number of the IOM4-e/-B line card for which the RTU license is being purchased.
IOM4-e/-B RTU License Upgrade from L3BQ to L3HQ for IOM4-e/-B. RTU license upgrade is tied to the specific IOM4-e/-B line card for which it is purchased. Customers are required to provide the serial number of the IOM4-e/-B line card for which the RTU license is being purchased.
RTU - SROS Telemetry Right To Use License. A per system license. Allows the use of Telemetry functionality.
ASL VSR-AA DEM Gateway Wifi 10K Subs - Application Software License (ASL) required for Application Assurance Dynamic Experience Management Gateway. One (1) of these ASLs is required for every increment of 10,000 subscribers, in addition to AA licenses. Multiple instances may be applied to allow the desired scale. Per Network license.
SROS DEM Gateway Wifi 10K Subs - Right to Use (RTU) required for Application Assurance Dynamic Experience Management Gateway. One (1) of these RTUs is required for every increment of 10,000 subscribers, in addition to AA licenses. Multiple instances may be applied to allow the desired scale. Per Network license.
Spare SD card (4GB). -40 to 85C, SLC.
SR/ESS 128 GB Compact Flash - Spare (Blank)
ACC - 7210 SAS-K 2F4T6C ETR rack mount, fits one 7210 SAS-K (K12) and its power supplies in a 19" rack
VSR-a SN7 R21 AC Appliance is a configuration which includes one (1) AirFrame Server Node (NDCHW1286) AC server, one (1) R21.2 VSR-a Application Software License, one (1) ASL VSR 1 Gbps BW w Standard QoS and one (1) HostOS RHEL Subscription. This bundle does not include cables such as power, console or Cat6 nor does it include SFP+ hardware. All application specific VSR licenses and additional QoS licenses are required to be purchased in addition to the base system functionality provided by the appliance.

VSR-a SN7 R21 DC Appliance is a configuration which includes one (1) AirFrame Server Node (NDCHW1331) DC server, one (1) R21.2 VSR-a Application Software License, one (1) ASL VSR 1 Gbps BW w Standard QoS, two (2) DC Power Supply Cables (3HE12032AA) and one (1) HostOS RHEL Subscription. This bundle does not include cables such as console or Cat6 nor does it include SFP+ hardware. All application specific VSR licenses and additional QoS licenses are required to be purchased in addition to the base system functionality provided by the appliance.

VSR-a SN8 R21 AC Appliance is a configuration which includes one (1) AirFrame Server Node (NDCHW2347) AC server, one (1) R21.2 VSR-a Application Software License, one (1) ASL VSR 10 Gbps BW w Standard QoS and one (1) HostOS RHEL Subscription. This bundle does not include cables such as power, console or Cat6 nor does it include SFP+ hardware. All application specific VSR licenses and additional QoS licenses are required to be purchased in addition to the base system functionality provided by the appliance.

VSR-a SN8 R21 DC Appliance is a configuration which includes one (1) AirFrame Server Node (NDCHW2349) DC server, one (1) R21.2 VSR-a Application Software License, one (1) ASL VSR 10 Gbps BW w Standard QoS, two (2) DC Power Supply Cables (3HE12032AA) and one (1) HostOS RHEL Subscription. This bundle does not include cables such as console or Cat6 nor does it include SFP+ hardware. All application specific VSR licenses and additional QoS licenses are required to be purchased in addition to the base system functionality provided by the appliance.

7750 SR SFM6-7/12 & CPM5, one (1) required per 7750 SR-7/12 slot Shelf, up to two (2) per 7750 SR-7/12 slot Shelf for CPU and fabric redundancy

Bundle includes:

(1) 3HE08423AA - CPM - 7750 SR CPM5

(1) 3HE12335AA - SFM - 7750 SR SFM6-7/12

~~7750 SR-14s AC/HVDC complete chassis bundle, shipped with all common hardware. Includes.~~

(1) 3HE11301AA - CHAS - 7750 SR-14s CHASSIS,

(1) 3HE12315AA - CMA - 7750 SR-14s,

(2) 3HE11304AA - CPM - 7750 SR-s CPM-7s/14s

(8) 3HE11315AA - SFM - 7750 SR-7s/14s,

(8) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY,

(1) 3HE11179AA - CHAS - 7750 SR-7s/14s AC/HVDC PWR SHELF,

(5) 3HE11183AA - PSU - AC/HVDC 6kw POWER SUPPLY,

(1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD

Note: AC/HVDC Power Shelf includes the filler panels for the PSU.

Additional items in which will need to be purchased separately are;

Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), AC/HVDC power shelf accessory kit, Power Cords and optional air filter door kit.

~~Chassis accessory kit included~~

~~7750 SR-7s AC/HVDC complete chassis bundle, shipped with all common hardware. Control redundancy. Includes.~~

(1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS,

(1) 3HE12314AA - CMA - 7750 SR-7s DUAL,

(2) 3HE11304AA - CPM - 7750 SR-s CPM-7s/14s,

(4) 3HE11315AA - SFM - 7750 SR-7s/14s,

(4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY,

(1) 3HE11179AA - CHAS - 7750 SR-7s/14s AC/HVDC PWR SHELF

(3) 3HE11183AA - PSU - AC/HVDC 6kw POWER SUPPLY,

(1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD

Note: AC/HVDC Power Shelf includes the filler panels for the PSU.

Additional items in which will need to be purchased separately are;

Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), AC/HVDC power shelf accessory kit, Power Cords and optional air filter door kit.

~~Chassis accessory kit included~~

7750 SR-7s DC Complete chassis bundle, shipped with all common hardware. No control redundancy. Includes.

- (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS,
- (1) 3HE12326AA - CMA - 7750 SR-7s SINGLE,
- (1) 3HE11304AA - CPM - 7750 SR-s CPM-7s/14s,
- (4) 3HE11315AA - SFM - 7750 SR-7s/14s,
- (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY,
- (1) 3HE11180AA - CHAS - 7750 SR-7s/14s LVDC POWER SHELF,
- (3) 3HE11185AA - PSU - LVDC 6kw POWER SUPPLY,
- (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD

Note: LVDC Power Shelf includes the filler panels for the PSU.

Additional items in which will need to be purchased separately are;

Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), LVDC power shelf accessory kit and power lug kit, and optional air filter door kit.

~~Chassis accessory kit included.~~
7750 SR-7s AC/HVDC Complete chassis bundle, shipped with all common hardware. No control redundancy. Includes.

- (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS,
- (1) 3HE12326AA - CMA - 7750 SR-7s SINGLE,
- (1) 3HE11304AA - CPM - 7750 SR-s CPM-7s/14s,
- (4) 3HE11315AA - SFM - 7750 SR-7s/14s,
- (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY,
- (1) 3HE11179AA - CHAS - 7750 SR-7s/14s AC/HVDC PWR SHELF,
- (3) 3HE11183AA - PSU - AC/HVDC 6kw POWER SUPPLY,
- (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD

Note: AC/HVDC Power Shelf includes the filler panels for the PSU.

Additional items in which will need to be purchased separately are;

Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), AC/HVDC power shelf accessory kit, Power Cords and optional air filter door kit.

~~Chassis accessory kit included.~~
7750 SR-1s AC/HVDC Power Shelf, 2.4T 24-port QSFP28 (supported QSFP+/QSFP28) Core Router feature set;

Includes the following;

- (1) 3HE13799AA - SYS - SR-1s 2.4T 24pt QSFP28 CR AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC" licensed to 2.4T throughput and 24-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 2.4T to 3.6T intelligent fan in/fan out.~~

~~7750 SR-1s + AC/HVDC Power Shelf Bundle, 2.4T 24-port QSFP28 (supported QSFP+/QSFP28) Edge Router feature set;~~

Includes the following;

- (1) 3HE13799BA - SYS - SR-1s 2.4T 24pt QSFP28 ER AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC" licensed to 2.4T throughput and 24-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 2.4T to 3.6T intelligent fan in/fan out~~

~~7750 SR-1s + AC/HVDC Power Shelf bundle, 2.4T 24-port QSFP28 (supported QSFP+/QSFP28) Edge Router feature set;~~

Includes the following;

- (1) 3HE13799CA - SYS - SR-1s 2.4T 24pt QSFP28 HE AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC" licensed to 2.4T throughput and 24-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 2.4T to 3.6T intelligent fan in/fan out~~

~~7750 SR-1s + LVDC Power Shelf Bundle, 3.6T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Core Router feature set;~~

Includes the following;

- (1) 3HE13804AA - SYS - SR-1s 3.6T 36pt QSFP-DD CR LVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan in/fan out~~

7750 SR-1s + LVDC Power Shen Bundle, 3.6T 36-port QSFP28 (supported QSFP+/QSFP28), Edge Router feature set.

Includes the following;

- (1) 3HE13804BA - SYS - SR-1s 3.6T 36pt QSFP-DD ER LVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to HE feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan in/fan out.~~

7750 SR-1s + LVDC Power Shen Bundle, 3.6T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), High Scale Edge feature set;

Includes the following;

- (1) 3HE13804CA - SYS - SR-1s 3.6T 36pt QSFP-DD HE LVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan in/fan out.~~

7750 SR-1s + AC/HVDC Power Shen, 3.6T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Core Router feature set,

Includes the following;

- (1) 3HE13805AA - SYS - SR-1s 3.6T 36pt QSFP-DD CR AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T AC/HVDC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan in/fan out.~~

~~7750 SR-1s + AC/HVDC Power Shen Bundle, 3.6T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Edge Router feature set;~~

Includes the following;

- (1) 3HE13805BA - SYS - SR-1s 3.6T 36pt QSFP-DD ER AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to HE feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan in/fan out.~~
~~7750 SR-1s + AC/HVDC Power Shen Bundle, 3.6T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), High Scale Edge feature set;~~

Includes the following;

- (1) 3HE13805CA - SYS - SR-1s 3.6T 36pt QSFP-DD HE AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan in/fan out.~~
~~7750 SR-1s + LVDC Power Shen Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Core Router feature set;~~

Includes the following;

- (1) 3HE13806AA - SYS - SR-1s 4.8T 36pt QSFP-DD CR LVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 4.8T throughput and 36-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 4.8T to 12T intelligent fan in/fan out.~~

~~7750 SR-1s + LVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Edge Router feature set.~~

Includes the following;

- (1) 3HE13806BA - SYS - SR-1s 4.8T 36pt QSFP-DD ER LVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 4.8T throughput and 36-connectors hard license enabled.

Software scale upgradeable to HE feature set.

~~Hardware performance upgradeable from 4.8T to 12T intelligent fan in/fan out.~~
~~7750 SR-1s + LVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), High Scale Edge feature set;~~

Includes the following;

- (1) 3HE13806CA - SYS - SR-1s 4.8T 36pt QSFP-DD HE LVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 4.8T throughput and 36-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 4.8T to 12T intelligent fan in/fan out.~~
~~7750 SR-1s + AC/HVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Core Router feature set;~~

Includes the following;

- (1) 3HE13807AA - SYS - SR-1s 4.8T 36pt QSFP-DD CR AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T AC/HVDC" licensed to 4.8T throughput and 36-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 4.8T to 12T intelligent fan in/fan out.~~

~~7750 SR-1s + AC/HVDC Power Shen Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Edge Router feature set:~~

Includes the following;

- (1) 3HE13807BA - SYS - SR-1s 4.8T 36pt QSFP-DD ER AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC" licensed to 4.8T throughput and 36-connectors hard license enabled.

Software scale upgradeable to HE feature set.

~~Hardware performance upgradeable from 4.8T to 12T intelligent fan in/fan-out~~
~~7750 SR-1s + AC/HVDC Power Shen Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), High Scale Edge feature set;~~

Includes the following;

- (1) 3HE13807CA - SYS - SR-1s 4.8T 36pt QSFP-DD HE AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC" licensed to 4.8T throughput and 36-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 4.8T to 12T intelligent fan in/fan-out~~
~~7750 SR-1s + LVDC Power Shen Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Aggregation mode to 12T, Core Router feature set;~~

Includes the following;

- (1) 3HE13808AA - SYS - SR-1s 4.8T 36pt QSFP-DD CR to 12T DC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

Software scale upgradeable to ER or HE feature set.

~~Hardware performance up to 12T intelligent fan in/fan-out~~
~~7750 SR-1s + LVDC Power Shen Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Aggregation mode to 12T, Edge Router feature set:~~

Includes the following;

- (1) 3HE13808BA - SYS - SR-1s 4.8T 36pt QSFP-DD ER to 12T DC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

Software scale upgradeable to HE feature set.

~~Hardware performance up to 12T intelligent fan in/fan-out~~

7750 SR-1s + LVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Aggregation mode to 12T, High Scale Edge feature set;

Includes the following;

- (1) 3HE13808CA - SYS - SR-1s 4.8T 36pt QSFP-DD HE to 12T DC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 4.8T FD, Aggregation mode up 12T, to 36-connectors Universal QSFP-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

Full High-Scale Edge feature set.

~~Hardware performance up to 12T intelligent fan-in/fan-out~~

7750 SR-1s + AC/HVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Aggregation mode to 12T, Core Router feature set;

Includes the following;

- (1) 3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

Software scale upgradeable to ER or HE feature set.

~~Hardware performance up to 12T intelligent fan-in/fan-out~~

7750 SR-1s + AC/HVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Aggregation mode to 12T, Edge Router feature set:

Includes the following;

- (1) 3HE13809BA - SYS - SR-1s 4.8T 36pt QSFP-DD ER to 12T AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

Software scale upgradeable to HE feature set.

~~Hardware performance up to 12T intelligent fan-in/fan-out~~

7750 SR-1s + AC/HVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Aggregation mode to 12T, High Scale Edge feature set;

Includes the following;

- (1) 3HE13809CA - SYS - SR-1s 4.8T 36pt QSFP-DD HE to 12T AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 4.8T FD, Aggregation mode up 12T, to 36-connectors Universal QSFP-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

Full High-Scale Edge feature set.

~~Hardware performance up to 12T intelligent fan-in/fan-out~~

IOM-e RTU License Upgrade from L2HQ to L3HQ for IOM-e IMM . RTU license upgrade is tied to the specific IOM-e line card for which it is purchased. Customers are required to provide the serial number of the IOM-e line card for which the RTU license is being purchased.

IOM-e RTU License Upgrade from L3BQ to L3HQ for IOM-e. RTU license upgrade is tied to the specific IOM-e line card for which it is purchased. Customers are required to provide the serial number of the IOM-e line card for which the RTU license is being purchased.

IOM4-e-HS RTU License Upgrade from L3BQ to L3HQ for IOM4-e-HS. RTU license upgrade is tied to the specific IOM4-e-HS line card for which it is purchased. Customers are required to provide the serial number of the IOM4-e-HS line card for which the RTU license is being purchased.

Nuage Virtualized Network Services (VNS) Right-To-Use license for hosting one Virtual Network Functions (VNF) on Network Service Gateway (NSG)

Nuage Virtualized Services Directory (VSD) network-wide license for lifecycle management for 500 Virtual Network Functions (VNF)

Nuage 7850 Network Services Gateway – Ethernet 202 (NSG-E202). AC powered with 2 dual-PHY ports supporting 10/100/1000BASE-X and 10/100/1000BASE-T Gigabit Ethernet, 4 LAN 10/100/1000BASE-T Gigabit Ethernet ports, integrated WiFi access point, USB, and RJ-45 console. Included in bundle is qty=1 3HE11925AA AC power supply. One C13 power cord must be purchased separately. Only to be sold in conjunction with Nuage Virtualized Network Services (VNS) software.

7250 IXR-10 LVDC Complete chassis bundle with all common hardware including:

- (1) 3HE11770AA - CHAS - 7250 IXR-10 Chassis
- (4) 3HE11752AA - PSU - 7250 IXR LVDC
- (6) 3HE11768AA - SFM - 7250 IXR-10 SFM
- (2) 3HE11761AA - CPM - 7250 IXR CPM
- (3) 3HE11769AA - FAN - 7250 IXR-10 Fan Tray

Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.

7250 IXR-6 LVDC complete chassis bundle with all common hardware including:

- (1) 3HE11760AA - CHAS - 7250 IXR-6 Chassis
- (2) 3HE11752AA - PSU - 7250 IXR LVDC
- (6) 3HE11755AA - SFM - 7250 IXR-6 SFM
- (2) 3HE11761AA - CPM - 7250 IXR CPM
- (3) 3HE11759AA - FAN - 7250 IXR-6 Fan Tray

Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.

7250 IXR-10 AC/HVDC Complete chassis bundle with all common hardware including:

- (1) 3HE11770AA - CHAS - 7250 IXR-10 Chassis
- (4) 3HE11751AA - PSU - 7250 IXR AC/HVDC
- (6) 3HE11768AA - SFM - 7250 IXR-10 SFM
- (2) 3HE11761AA - CPM - 7250 IXR CPM
- (3) 3HE11769AA - FAN - 7250 IXR-10 Fan Tray

Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.

7250 IXR-6 AC/HVDC complete chassis bundle with all common hardware including:

- (1) 3HE11760AA - CHAS - 7250 IXR-6 Chassis
- (2) 3HE11751AA - PSU - 7250 IXR AC/HVDC
- (6) 3HE11755AA - SFM - 7250 IXR-6 SFM
- (2) 3HE11761AA - CPM - 7250 IXR CPM
- (3) 3HE11759AA - FAN - 7250 IXR-6 Fan Tray

Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.

7250 IXR-10 LVDC Complete chassis bundle with all common hardware including:

- (1) 3HE11770AA - CHAS - 7250 IXR-10 Chassis
- (4) 3HE11752AA - PSU - 7250 IXR LVDC
- (6) 3HE11768AA - SFM - 7250 IXR-10 SFM
- (2) 3HE11762AA - CPM - 7250 IXR CPM 128 GB SSD
- (3) 3HE11769AA - FAN - 7250 IXR-10 Fan Tray

Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.

7250 IXR-6 LVDC complete chassis bundle with all common hardware including:

- (1) 3HE11760AA - CHAS - 7250 IXR-6 Chassis
- (2) 3HE11752AA - PSU - 7250 IXR LVDC
- (6) 3HE11755AA - SFM - 7250 IXR-6 SFM
- (2) 3HE11762AA - CPM - 7250 IXR CPM 128 GB SSD
- (3) 3HE11759AA - FAN - 7250 IXR-6 Fan Tray

Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.

7250 IXR-10 AC/HVDC Complete chassis bundle with all common hardware including:

- (1) 3HE11770AA - CHAS - 7250 IXR-10 Chassis
- (4) 3HE11751AA - PSU - 7250 IXR AC/HVDC
- (6) 3HE11768AA - SFM - 7250 IXR-10 SFM
- (2) 3HE11762AA - CPM - 7250 IXR CPM 128 GB SSD
- (3) 3HE11769AA - FAN - 7250 IXR-10 Fan Tray

Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.

7250 IXR-6 AC/HVDC complete chassis bundle with all common hardware including:

- (1) 3HE11760AA - CHAS - 7250 IXR-6 Chassis
- (2) 3HE11751AA - PSU - 7250 IXR AC/HVDC
- (6) 3HE11755AA - SFM - 7250 IXR-6 SFM
- (2) 3HE11762AA - CPM - 7250 IXR CPM 128 GB SSD
- (3) 3HE11759AA - FAN - 7250 IXR-6 Fan Tray

Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.

Rack mount kit for a single Nuage 7850 Network Services Gateway – Ethernet 200/300 (NSG-E200/E300). Designed for 19” racks and is 1U high. Rack screws are not included and M5 is the maximum usable screw size.

SYS - 7210 SAS-K 3SFP+ 8C ETR AC, Includes two (2) fixed power supplies. Does not include software

SYS - 7210 SAS-K 3SFP+ 8C ETR 20-72V DC, includes two (2) fixed power supplies. Does not include software

Vehicle Mount LTE MIMO/WiFi/GNSS antenna. Upto 5 dBi gain for LTE 698-960/1695-2170/2300-2700/2900-3600 MHz. Upto 5 dBi gain for WiFi 2400-2500/4900-5925 MHz. 2 x N-Type male connectors for LTE MIMO, 1 x N-Type male connector for WiFi and 1 x N-Type male connector for GNSS. Direct mount to vehicle.

Vehicle Mount LTE MIMO/WiFi/GNSS antenna. Upto 5 dBi gain for LTE 698-960/1695-2170/2300-2700/2900-3600 MHz. Upto 5 dBi gain for WiFi 2400-2500/4900-5925 MHz. 2 x SMA male connectors for LTE MIMO, 1 x RP-SMA male connector for WiFi and 1 x SMA male connector for GNSS. Direct mount to vehicle.

System Bundle - 7750 SR-1 DC Core Router feature set, includes;

- (1) 3HE12298AA - SYS - 7750 SR-1 DC 1.5T CR
- Included with the SR-1 chassis:
- (1) 3HE12302AA - ACC - 7750 SR-1 DC Accessory Kit
 - (1) 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP
 - (4) 3HE12300AA - FAN - 7750 SR-1 Fan Tray

CR licenses on this part number restricts the hardware queues to 1024 per complex and the number of egress policers to 1024 per complex

System Bundle - 7750 SR-1 DC Edge Router feature set, includes;

- (1) 3HE12298BA - SYS - 7750 SR-1 DC 1.5T ER
- Included with the SR-1 chassis:
- (1) 3HE12302AA - ACC - 7750 SR-1 DC Accessory Kit
 - (1) 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP
 - (4) 3HE12300AA - FAN - 7750 SR-1 Fan Tray

ER licenses on this part number restricts the hardware queues to 16 384 per complex and the number of egress policers to 16 384 per complex

<p>System Bundle - 7750 SR-1 DC High Scale Router feature set, Density Level 1 includes;</p> <p>(1) 3HE12298CA - SYS - 7750 SR-1 DC 1.5T HE</p> <p>Included with the SR-1 chassis:</p> <p>(1) 3HE12302AA - ACC - 7750 SR-1 DC Accessory Kit</p> <p>(1) 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP</p> <p>(4) 3HE12300AA - FAN - 7750 SR-1 Fan Tray</p> <p>HE licenses on this part number does not restrict hardware queues or egress policers</p>
<p>System Bundle - 7750 SR-1 non-redundant AC power, Core Router feature set, includes;</p> <p>(1) 3HE12299AA - SYS - 7750 SR-1 AC 1.5T CR</p> <p>Included with the SR-1 chassis:</p> <p>(1) 3HE12303AA - ACC - 7750 SR-1 AC Accessory Kit</p> <p>(1) 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP</p> <p>(1) 3HE12301AA - PSU – 7750 SR-1 AC Power Supply</p> <p>(4) 3HE12300AA - FAN - 7750 SR-1 Fan Tray</p> <p>CR licenses on this part number restricts the hardware queues to 1024 per complex and the number of egress policers to 1024 per complex</p>
<p>System Bundle - 7750 SR-1 non-redundant AC power, Edge Router feature set, includes;</p> <p>(1) 3HE12299BA - SYS - 7750 SR-1 AC 1.5T ER</p> <p>Included with the SR-1 chassis:</p> <p>(1) 3HE12303AA - ACC - 7750 SR-1 AC Accessory Kit</p> <p>(1) 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP</p> <p>(1) 3HE12301AA - PSU – 7750 SR-1 AC Power Supply</p> <p>(4) 3HE12300AA - FAN - 7750 SR-1 Fan Tray</p> <p>ER licenses on this part number restricts the hardware queues to 16 384 per complex and the number of egress policers to 16 384 per complex</p>
<p>System Bundle - 7750 SR-1 non-redundant AC power, High Scale Router feature set, includes;</p> <p>(1) 3HE12299CA - SYS - 7750 SR-1 AC 1.5T HE</p> <p>Included with the SR-1 chassis:</p> <p>(1) 3HE12303AA - ACC - 7750 SR-1 AC Accessory Kit</p> <p>(1) 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP</p> <p>(1) 3HE12301AA - PSU – 7750 SR-1 AC Power Supply</p> <p>(4) 3HE12300AA - FAN - 7750 SR-1 Fan Tray</p> <p>HE licenses on this part number does not restrict hardware queues or egress policers</p>
<p>7250 IXR-R6 chassis bundle, includes:</p> <p>(1) 3HE11278AA - 7250 IXR-R6 Chassis</p> <p>(1) 3HE11279AA - 7250 IXR-R6 Fan Tray</p> <p>(1) 3HE11286AA - 7250 IXR-R6 Fan Filters (5-pack)</p> <p>(1) 3HE11283AA - 7250 IXR-R6 CPIOM</p> <p>(1) 3HE11287AA - 7250 IXR-R6 CPIOM Impedance Panel</p> <p>(5) 3HE11288AA - 7250 IXR-R6 MDA Impedance Panel</p>
<p>24F SMF MPO-MPO Patch Cable, 3M</p>
<p>24F MMF MPO-24 to MPO-24 jumper, 3M</p>
<p>12F SMF MPO-12 to MPO-12 jumper, 3M</p>
<p>12F MMF MPO-12 to MPO-12 jumper, 3M</p>
<p>7210 SAS-S Non-PoE RPS interconnect</p>
<p>7210 SAS-S PoE RPS interconnect</p>
<p>Upgrade license from SR-1 Core Router - to SR-1 Edge Router - system</p>
<p>Upgrade license from SR-1 Edge Router - to SR-1 High Scale Router - system</p>

<p>7750 SR IOM5-e, 1x FP4 complex, performance restricted to 400G FD, accepts two (2) MDA-e-XP. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>This card is based off "3HE12332xA - IOM - 7750 SR IOM5-e" licensed to 400G throughput.</p> <p>Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 400G to 800G or 1.5T</p> <p>7750 SR-7/12-B - licensed to 400G throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP and 3pt CFP2-DCO MDA-e-XP not supported</p> <p>7750 SR-12e - licensed to 400G throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions</p>
<p>7750 SR IOM5-e, 1x FP4 complex, performance restricted to 400G FD, accepts two (2) MDA-e-XP. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>This card is based off "3HE12332xA - IOM - 7750 SR IOM5-e" licensed to 400G throughput.</p> <p>Software scale upgradeable to HE feature set. Hardware performance upgradeable from 400G to 800G or 1.5T</p> <p>7750 SR-7/12-B - licensed to 400G throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP and 3pt CFP2-DCO MDA-e-XP not supported</p> <p>7750 SR-12e - licensed to 400G throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions</p>
<p>7750 SR IOM5-e, 1x FP4 complex, performance restricted to 400G FD, accepts two (2) MDA-e-XP. High-Scale Edge (ER) no restrictions on h/w queues or egress policers</p> <p>This card is based off "3HE12332xA - IOM - 7750 SR IOM5-e" licensed to 400G throughput.</p> <p>Full High-Scale Edge feature set Hardware performance upgradeable from 400G to 800G or 1.5T</p> <p>7750 SR-7/12-B - licensed to 400G throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP and 3pt CFP2-DCO MDA-e-XP not supported</p> <p>7750 SR-12e - licensed to 400G throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions</p>
<p>7750 SR12e LVDC Chassis + Non-Redundant SFM6-12e, bundle includes the following;</p> <p>(1) 3HE07165AA - CH-BN - 7750 SR12e Integrated Chassis (1) 3HE12330AA - SFM - 7750 SR SFM6-12e (1) 3HE08423AA - CPM - 7750 SR CPM5 (2) 3HE12331AA - SFM - 7750 SR mini-SFM6-12e (3) 3HE09422AA - APEQ-DC-2200-2800 Power Equalizer Module (1) 3HE10475AA - ACC 7750 SR-12e 80A Breakers x16</p> <p>7750 SR12e AC Chassis + Non-Redundant SFM6-12e, bundle includes the following:</p> <p>(1) 3HE07165AA - CH-BN - 7750 SR12e Integrated Chassis (1) 3HE12330AA - SFM - 7750 SR SFM6-12e (1) 3HE08423AA - CPM - 7750 SR CPM5 (2) 3HE12331AA - SFM - 7750 SR mini-SFM6-12e (3) 3HE09423AA - APEQ-AC-3000 Power Equalizer Module (1) 3HE10114AA - ACC 7750 SR-12e AC bezel</p>
<p>Upgrade from IOM5-e 400G CR (Core Router) to IOM5-e 400G ER (Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade from IOM5-e 400G ER (Edge Router) to IOM5-e 400G HE (High-Scale Edge) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade from IOM5-e 1.5T CR (Core Router) to IOM5-e 1.5T ER (Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>

<p>Upgrade from IOM5-e 1.5T ER (Edge Router) to IOM5-e 1.5T HE (High-Scale Edge) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>7750 SR 12-B Slot Chassis with 7750 SR-12-B 175 Amp DC PEM-3 and 7750 SR-12 Enhanced Fan Tray + 7750 SR SFM6-7/12 + CPM5 Bundle. Bundle Includes: (1) 3HE12335AA - SFM - 7750 SR SFM6-7/12 (1) 3HE08423AA - CPM - 7750 SR CPM5 (1) 3HE10854AA - CH-BN - 7750 SR-12-B w/PEM3 + EFT</p>
<p>7750 SR 7-B Slot Chassis with 7750 SR-7-B 100 Amp DC PEM-3 and 7750 SR-7 Enhanced Fan Tray + 7750 SR SFM6-7/12 + CPM5 Bundle. Bundle Includes: (1) 3HE10852AA - CH-BN - 7750 SR-7-B DC w/PEM3 + EFT (1) 3HE12335AA - SFM - 7750 SR SFM6-7/12 (1) 3HE08423AA - CPM - 7750 SR CPM5</p>
<p>7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>This card is based off “3HE11307xA - XMA - SR-s 2.4T 36pt QSFP28 to 3.6T” licensed to 1.6T throughput and 16-connectors hard license enabled.</p> <p>Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.</p>
<p>7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>This card is based off “3HE11307xA - XMA - SR-s 2.4T 36pt QSFP28 to 3.6T” licensed to 1.6T throughput and 16-connectors hard license enabled.</p> <p>Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.</p>
<p>7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)</p> <p>This card is based off “3HE11307xA - XMA - SR-s 2.4T 36pt QSFP28 to 3.6T” licensed to 1.6T throughput and 16-connectors hard license enabled.</p> <p>Full High-Scale Edge feature set Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.</p>
<p>Upgrade license from 1.6Tbps 16 port QSFP28 XMA-ER to 2.4Tbps 24port QSFP28 XMA-ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 1.6Tbps 16 port QSFP28 XMA-HE to 2.4Tbps 24port QSFP28 XMA-HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license to enable aggregation mode up to 3.6T / 36 ports on 2.4Tbps 24 port QSFP28 XMA (applies to CR, ER, HE variants) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 1.6Tbps 16 port QSFP28 XMA-CR to 1.6Tbps 16 port QSFP28 XMA-ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>

<p>Upgrade license from 1.6Tbps 16 port QSFP28 XMA-ER to 1.6Tbps 16 port QSFP28 XMA-HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 2.4Tbps 24 port QSFP28 XMA-CR to 2.4Tbps 24 port QSFP28 XMA-ER (also applies to aggregation mode 2.4T XMA variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 2.4Tbps 24 port QSFP28 XMA-ER to 2.4Tbps 24 port QSFP28 XMA-HE (also applies to aggregation mode 2.4T XMA variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license to enable QSFP28-DD (200G) support on 3.6Tbps 36 port QSFP28 XMA (applies to CR, ER, HE variants) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 3.6Tbps 36 port QSFP-DD XMA-CR to 4.8Tbps 36 port QSFP-DD XMA-CR <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 3.6Tbps 36 port QSFP-DD XMA-ER to 4.8Tbps 36 port QSFP-DD XMA-ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 3.6Tbps 36 port QSFP-DD XMA-HE to 4.8Tbps 36 port QSFP-DD XMA-HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license to enable aggregation mode up to 12T on 4.8Tbps 36 port QSFP-DD XMA (applies to CR, ER, HE variants) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 3.6Tbps 36 port QSFP-28 XMA-CR to 3.6Tbps 36 port QSFP-28 XMA-ER (also applies to 3.6T QSFP-DD XMA variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 3.6Tbps 36 port QSFP-28 XMA-ER to 3.6Tbps 36 port QSFP-28 XMA-HE (also applies to 3.6T QSFP-DD XMA variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 4.8Tbps 36 port QSFP-DD XMA-CR to 4.8Tbps 36 port QSFP-DD XMA-ER (also applies to aggregation mode 4.8T XMA variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 4.8Tbps 36 port QSFP-DD XMA-ER to 4.8Tbps 36 port QSFP-DD XMA-HE (also applies to aggregation mode 4.8T XMA variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from SR-1s CR 1.6Tbps 16 port QSFP28 to SR-1s CR 2.4Tbps 24port QSFP28 <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>

<p>Upgrade license from SR-1s ER 1.6Tbps 16 port QSFP28 to SR-1s ER 2.4Tbps 24port QSFP28 <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from SR-1s HE 1.6Tbps 16 port QSFP28 to SR-1s HE 2.4Tbps 24port QSFP28 <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license to enable aggregation mode up to 3.6T / 36 ports on 2.4Tbps 24 port QSFP-28 (applies to CR, ER, HE variants) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from SR-1s CR 1.6Tbps 16 port QSFP28 to SR-1s ER 1.6Tbps 16 port QSFP28 <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from SR-1s ER 1.6Tbps 16 port QSFP28 to SR-1s HE 2.4Tbps 24 port QSFP28 <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from SR-1s CR 2.4Tbps 24 port QSFP28 to SR-1s ER 2.4Tbps 24 port QSFP28 (also applies to aggregation mode 2.4T SR-1s variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from SR-1s ER 2.4Tbps 24 port QSFP28 to SR-1s HE 2.4Tbps 24 port QSFP28 (also applies to aggregation mode 2.4T SR-1s variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 3.6Tbps 36 port QSFP-28 SR-1s CR to 3.6Tbps 36 port QSFP-28 SR-1s ER (also applies to 3.6T QSFP-DD SR-1s variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 3.6Tbps 36 port QSFP-28 SR-1s ER to 3.6Tbps 36 port QSFP-28 SR-1s HE (also applies to 3.6T QSFP-DD SR-1s variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license to enable QSFP-DD support on 3.6Tbps 36 port QSFP-28 SR-1s (applies to CR, ER, HE variants) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 3.6Tbps 36 port QSFP-DD SR-1s CR to 4.8Tbps 36 port QSFP-DD SR-1s CR <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 3.6Tbps 36 port QSFP-DD SR-1s ER to 4.8Tbps 36 port QSFP-DD SR-1s ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 3.6Tbps 36 port QSFP-DD SR-1s HE to 4.8Tbps 36 port QSFP-DD SR-1s HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>

<p>Upgrade license from SR-1s CR 4.8Tbps 36 port QSFP-DD to SR-1s ER 4.8Tbps 36 port QSFP-DD (also applies to aggregation mode 4.8T SR-1s variant)</p> <p><i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from SR-1s ER 4.8Tbps 36 port QSFP-DD to SR-1s HE 4.8Tbps 36 port QSFP-DD (also applies to aggregation mode 4.8T SR-1s variant)</p> <p><i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license to enable aggregation mode up to 12T on SR-1s 4.8Tbps 36 port QSFP-DD (applies to CR, ER, HE variants)</p> <p><i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>This 7750 SR-1s is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 1.6T throughput and 16-connectors hard license enabled.</p> <p>Software scale upgradeable to ER or HE feature set.</p> <p><u>Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>This card is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 1.6T throughput and 16-connectors hard license enabled.</p> <p>Software scale upgradeable to HE feature set.</p> <p><u>Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)</p> <p>This 7750 SR-1s is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 1.6T throughput and 16-connectors hard license enabled.</p> <p>Full High-Scale Edge feature set.</p> <p><u>Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>This 7750 SR-1s is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 1.6T throughput and 16-connectors hard license enabled.</p> <p>Software scale upgradeable to ER or HE feature set.</p> <p><u>Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>This card is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 1.6T throughput and 16-connectors hard license enabled.</p> <p>Software scale upgradeable to ER or HE feature set.</p> <p><u>Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.</u></p>

<p>7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)</p> <p>This 7750 SR-1s is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 1.6T throughput and 16-connectors hard license enabled.</p> <p>Full High-Scale Edge feature set.</p> <p><u>Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>This 7750 SR-1s is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 2.4T throughput and 24-connectors hard license enabled.</p> <p>Software scale upgradeable to ER or HE feature set.</p> <p><u>Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>This card is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 2.4T throughput and 24-connectors hard license enabled.</p> <p>Software scale upgradeable to ER or HE feature set.</p> <p><u>Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)</p> <p>This 7750 SR-1s is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 2.4T throughput and 24-connectors hard license enabled.</p> <p>Full High-Scale Edge feature set.</p> <p><u>Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>Software scale upgradeable to ER or HE feature set.</p> <p><u>Hardware performance up to 3.6T intelligent fan-in/fan-out</u></p>
<p>7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>Software scale upgradeable to HE feature set.</p> <p><u>Hardware performance up to 3.6T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)</p> <p>Full High-Scale Edge feature set.</p> <p><u>Hardware performance up to 3.6T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>Software scale upgradeable to ER or HE feature set.</p> <p><u>Hardware performance up to 3.6T intelligent fan-in/fan-out</u></p>
<p>7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>Software scale upgradeable to HE feature set.</p> <p><u>Hardware performance up to 3.6T intelligent fan-in/fan-out.</u></p>

7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

Full High-Scale Edge feature set.

Hardware performance up to 3.6T intelligent fan-in/fan-out.

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to HE feature set.

Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Full High-Scale Edge feature set.

Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T AC/HVDC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to HE feature set.

Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Full High-Scale Edge feature set.

Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.~~

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to HE feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.~~

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.~~

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T AC/HVDC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.~~

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to HE feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.~~

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.~~

7750 SR-1s, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 4.8T throughput and 36-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.~~

7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 4.8T throughput and 36-connectors hard license enabled.

Software scale upgradeable to HE feature set.

Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.

7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 4.8T throughput and 36-connectors hard license enabled.

Full High-Scale Edge feature set.

Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.

7750 SR-1s, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T AC/HVDC" licensed to 4.8T throughput and 36-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.

7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC" licensed to 4.8T throughput and 36-connectors hard license enabled.

Software scale upgradeable to HE feature set.

Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.

7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC" licensed to 4.8T throughput and 36-connectors hard license enabled.

Full High-Scale Edge feature set.

Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.

7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

Software scale upgradeable to ER or HE feature set.

Hardware performance up to 12T intelligent fan-in/fan-out

7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

Software scale upgradeable to HE feature set.

Hardware performance up to 12T intelligent fan-in/fan-out.

7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, to 36-connectors Universal QSFP-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

Full High-Scale Edge feature set.

Hardware performance up to 12T intelligent fan-in/fan-out.

7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

Software scale upgradeable to ER or HE feature set.

~~Hardware performance up to 12T intelligent fan-in/fan-out~~

7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

Software scale upgradeable to HE feature set.

~~Hardware performance up to 12T intelligent fan-in/fan-out~~

7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, to 36-connectors Universal QSFP-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

Full High-Scale Edge feature set.

~~Hardware performance up to 12T intelligent fan-in/fan-out~~

7750 SR-1s + LVDC Power Shelf Bundle, 1.6T 16-port QSFP28 (supported QSFP+/QSFP28) Core Router feature set;

Includes the following;

- (1) 3HE13774AA - SYS - SR-1s 1.6T 16pt QSFP28 - CR + LVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC" licensed to 1.6T throughput and 16-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance ungradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out~~

7750 SR-1s + LVDC Power Shelf Bundle, 1.6T 16-port QSFP28 (supported QSFP+/QSFP28) Edge Router feature set.

Includes the following;

- (1) 3HE13774BA - SYS - SR-1s 1.6T 16pt QSFP28 - ER + LVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC" licensed to 1.6T throughput and 16-connectors hard license enabled.

Software scale upgradeable to HE feature set.

~~Hardware performance ungradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out~~

7750 SR-1s + LVDC Power Shelf Bundle, 1.6T 16-port QSFP28 (supported QSFP+/QSFP28) High Scale Edge feature set;

Includes the following;

- (1) 3HE13774CA - SYS - SR-1s 1.6T 16pt QSFP28 HE + LVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC" licensed to 1.6T throughput and 16-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance ungradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out~~

7750 SR-1s + AC/HVDC Power Shell, 1.6T 16-connector QSFP28 (supported QSFP+/QSFP28) Core Router feature set;

Includes the following;

- (1) 3HE13798AA - SYS - SR-1s 1.6T 16pt QSFP28 CR AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC" licensed to 1.6T throughput and 16-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out~~

7750 SR-1s + AC/HVDC Power Shell bundle, 1.6T 16-port QSFP28 (supported QSFP+/QSFP28) Edge Router feature set;

Includes the following;

- (1) 3HE13798BA - SYS - SR-1s 1.6T 16pt QSFP28 ER AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC" licensed to 1.6T throughput and 16-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out~~

7750 SR-1s + AC/HVDC Power Shell Bundle, 1.6T 16-port QSFP28 (supported QSFP+/QSFP28) High Scale Edge feature set;

Includes the following;

- (1) 3HE13798CA - SYS - SR-1s 1.6T 16pt QSFP28 HE AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC" licensed to 1.6T throughput and 16-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out~~

7750 SR-1s + LVDC Power Shell Bundle, 2.4T 36-port QSFP28 (supported QSFP+/QSFP28) Aggregation mode to 3.6T, Core Router feature set;

Includes the following;

- (1) 3HE13800AA - SYS - SR-1s 2.4T 36pt QSFP28 CR to 3.6T DC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

Software scale upgradeable to ER or HE feature set.

~~Hardware performance up to 3.6T intelligent fan-in/fan-out~~

~~7750 SR-1s + LVDC Power Shelf Bundle, 2.4T 36-port QSFP28 (supported QSFP+/QSFP28) Aggregation mode to 3.6T, Edge Router feature set;~~

Includes the following;

- (1) 3HE13800BA - SYS - SR-1s 2.4T 36pt QSFP28 ER to 3.6T DC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 3.6T, 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

Software scale upgradeable to HE feature set.

~~Hardware performance up to 3.6T intelligent fan-in/fan-out~~

~~7750 SR-1s + LVDC Power Shelf Bundle, 2.4T 36-port QSFP28 (supported QSFP+/QSFP28) Aggregation mode to 3.6T, High Scale Edge feature set;~~

Includes the following;

- (1) 3HE13800CA - SYS - SR-1s 2.4T 36pt QSFP28 HE to 3.6T DC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 3.6T, 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

Full High-Scale Edge feature set.

~~Hardware performance up to 3.6T intelligent fan-in/fan-out~~

~~7750 SR-1s + AC/HVDC Power Shelf, 2.4T 36-port QSFP28 (supported QSFP+/QSFP28) Aggregation mode to 3.6T, Core Router feature set;~~

Includes the following;

- (1) 3HE13801AA - SYS - SR-1s 2.4T 36pt QSFP28 CR to 3.6T AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 3.6T, 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

Software scale upgradeable to ER or HE feature set.

~~Hardware performance up to 3.6T intelligent fan-in/fan-out~~

~~7750 SR-1s + AC/HVDC Power Shelf, 2.4T 36-port QSFP28 (supported QSFP+/QSFP28) Aggregation mode to 3.6T, Core Router feature set;~~

Includes the following;

- (1) 3HE13801BA - SYS - SR-1s 2.4T 36pt QSFP28 ER to 3.6T AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 3.6T, 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

Software scale upgradeable to HE feature set.

~~Hardware performance up to 3.6T intelligent fan-in/fan-out~~

~~7750 SR-1s + AC/HVDC Power Shelf, 2.4T 36-port QSFP28 (supported QSFP+/QSFP28) Aggregation mode to 3.6T, Core Router feature set;~~

Includes the following;

- (1) 3HE13801CA - SYS - SR-1s 2.4T 36pt QSFP28 HE to 3.6T AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 3.6T, 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

Full High-Scale Edge feature set.

~~Hardware performance up to 3.6T intelligent fan-in/fan-out.~~
~~7750 SR-1s + LVDC Power Shelf Bundle, 3.6T 36-port QSFP28 (supported QSFP+/QSFP28), Core Router feature set;~~

Includes the following;

- (1) 3HE13802AA - SYS - SR-1s 3.6T 36pt QSFP28 CR LVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.~~
~~7750 SR-1s + LVDC Power Shelf Bundle, 3.6T 36-port QSFP28 (supported QSFP+/QSFP28), Edge Router feature set.~~

Includes the following;

- (1) 3HE13802BA - SYS - SR-1s 3.6T 36pt QSFP28 ER LVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to HE feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.~~
~~7750 SR-1s + LVDC Power Shelf Bundle, 3.6T 36-port QSFP28 (supported QSFP+/QSFP28), High Scale Edge feature set;~~

Includes the following;

- (1) 3HE13802CA - SYS - SR-1s 3.6T 36pt QSFP28 HE LVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.~~

7750 SR-1s + AC/HVDC Power Shell Bundle, 3.6T 36-port QSFP28 (supported QSFP+/QSFP28), Core Router feature set,

Includes the following;

- (1) 3HE13803AA - SYS - SR-1s 3.6T 36pt QSFP28 CR AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T AC/HVDC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan in/fan-out~~

7750 SR-1s + AC/HVDC Power Shell bundle, 3.6T 36-port QSFP28 (supported QSFP+/QSFP28), Edge Router feature set.

Includes the following;

- (1) 3HE13803BA - SYS - SR-1s 3.6T 36pt QSFP28 ER AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Software scale upgradeable to HE feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan in/fan-out~~

7750 SR-1s + AC/HVDC Power Shell Bundle, 3.6T 36-port QSFP28 (supported QSFP+/QSFP28), Edge Router feature set.

Includes the following;

- (1) 3HE13803CA - SYS - SR-1s 3.6T 36pt QSFP28 HE AC/HVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC" licensed to 3.6T throughput and 36-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan in/fan-out~~

SROS VPRN Service Right To Use License. A per system license. Allows the use of up to 64 VPRN Services.

Not controlled by this license: Number of queues or policers, number of SAPs or the number of IES service instances.

SROS VPRN Service Right To Use License. A per system license. Allows the use of up to 512 VPRN Services.

Not controlled by this license: Number of queues or policers, number of SAPs or the number of IES service instances.

SROS VPRN Service Right To Use License. A per system license. Allows the use of up to 2,000 VPRN Services.

Not controlled by this license: Number of queues or policers, number of SAPs or the number of IES service instances.

SROS VPRN Service Right To Use License. A per system license. Allows the use of up to 5,000 VPRN Services.

Not controlled by this license: Number of queues or policers, number of SAPs or the number of IES service instances.

<p>SROS VPRN Service Right To Use License. A per system license. Allows the use of up to 10,000 VPRN Services. Not controlled by this license: Number of queues or policers, number of SAPs or the number of IES service instances.</p>
<p>SROS EVPN Service Right To Use License. A per system license. Allows the use EVPN for VXLAN and/or MPLS tunnels.</p>
<p>SROS BGP Route Reflector Low-Scale Right To Use License. A per system license. Allows the use of BGP RR support for up to 100k routes.</p>
<p>SROS BGP Route Reflector High-Scale Right To Use License. A per system license. Allows the use of BGP RR support for up to maximum system scale.</p>
<p>SROS BGP Optimal Route Reflection Right To Use License. A per system license.</p>
<p>SROS BGP Inter-AS Peering Low-Scale Right To Use License. A per system license. Enables support for EBGp peers for up to 100k routes.</p>
<p>SROS BGP Inter-AS Peering High-Scale Right To Use License. A per system license. Enables support for EBGp peers for up to maximum system scale.</p>
<p>SROS BGP FlowSpec Right To Use License. A per system license. Enables support for BGP FlowSpec.</p>
<p>SROS BGP QPPB and Policy Accounting Right To Use License. A per system license. Enables support for BGP QPPB and Policy Accounting.</p>
<p>SROS BGP Multicast Right To Use License. A per system license. Enables support for BGP Multicast. License required to configure any of the following address families: mcast-ipv4, mvpn-ipv4, mdt-safi, mcast-vpn-ipv4, mvpn-ipv6, mcast-ipv6, mcast-vpn-ipv6</p>
<p>SROS Lawful Intercept (LI) Right To Use License. A per system license. Allows the use of the Lawful Intercept features.</p>
<p>SROS vRGW Home LAN Extension License – A per system license required to enable home the LAN Extension feature with vRGW.</p>
<p>SROS DHCP Server User Database License - A per system license. License required for IP address assignment using the Service Router DHCP Server User Database (also required when used with ESM).</p>
<p>SROS DHCP Server User Database License - A per system license. Up to 10K IP Addresses - License required for IP address assignment using the Service Router DHCP Server User Database. Multiple of these RTUs can be bought to match the total number of IP Addresses required to be allocated by the server. This RTU is not required with ESM host licenses.</p>
<p>7750 SR-7s DC complete chassis bundle, shipped with all common hardware. Control Redundant. Includes.</p> <ul style="list-style-type: none"> (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS, (1) 3HE12314AA - CMA - 7750 SR-7s DUAL, (2) 3HE11304AA - CPM - 7750 SR-s CPM-7s/14s, (4) 3HE11315AA - SFM - 7750 SR-7s/14s, (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY , (1) 3HE11180AA - CHAS - 7750 SR-7s/14s LVDC POWER SHELF, (3) 3HE11185AA - PSU - LVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD <p>Note: LVDC Power Shelf includes the filler panels for the PSU.</p> <p>Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), LVDC power shelf accessory kit and power lug kit, and optional air filter door kit. Chassis accessory kit included.</p>
<p>7750 SR-14s DC complete chassis bundle, shipped with all common hardware. Includes.</p> <ul style="list-style-type: none"> (1) 3HE11301AA - CHAS - 7750 SR-14s CHASSIS, (1) 3HE12315AA - CMA - 7750 SR-14s, (2) 3HE11304AA - CPM - 7750 SR-s CPM-7s/14s, (8) 3HE11315AA - SFM - 7750 SR-7s/14s, (8) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY, (1) 3HE11180AA - CHAS - 7750 SR-7s/14s LVDC POWER SHELF, (5) 3HE11185AA - PSU - LVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD <p>Note: LVDC Power Shelf includes the filler panels for the PSU.</p> <p>Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), LVDC power shelf accessory kit and power lug kit, and optional air filter door kit. Chassis accessory kit included.</p>

2-ports 100GBase CWDM4 QSFP28-DD Optic Module, 2KM, SMF, CS connector, RoHS 6/6, Digital Diagnostic Monitor (DDM), 0/70C
2-ports 100GBase SR4 QSFP28-DD Optic Module, 100M, MMF, MPO connector, RoHS 6/6, Digital Diagnostic Monitor (DDM), 0/70C
SROS Enhanced Subscriber Management (ESM) subscriber-host license for up to 512K subscriber-hosts. This is a per system license. Multiple of these RTUs could be bought to match the total number of subscribers targeted to be supported on the chassis.
SROS Software license to enable Hybrid Access Gateway function to terminate both a fixed (IPoE/PPPoE) connection and a mobile (4G/LTE) connection from an Hybrid CPE (HCPE), with a single IP address per bonded connection, and a configurable adaptive path selection for traffic flows towards the HCPE. This is a per system license.
SROS Software license required to terminate 4G/LTE access from fixed CPEs. This is a per system license.
SROS Software license required for terminating dual-stack GTP sessions in increment of 10,000 sessions. This is a per system license.
7750 SR-1s/2s/7s/14s DC PSU slot filler panel for the Power Shelf
7750 SR-1s/2s/7s/14sAC/HVDC PSU slot filler panel for the Power Shelf
Optical patch panel 1RU holder to host 4 pluggable modules
1x MPO-12 to 6 (4 used) duplex LC breakout, MMF
1x MPO-12 to 6 (4 used) duplex LC breakout, SMF
1x MPO-24 to 12 (10 used) duplex LC breakout, MMF
1x MPO-24 to 12 (10 used) duplex LC breakout, SMF
24F SMF MPO-MPO Patch Cable, 10M
24F MMF MPO-24 to MPO-24 jumper, 10M
12F SFM MPO-12 to MPO-12 jumper, 10M
12F MMF MPO-12 to MPO-12 jumper, 10M
7750 SR 3-ports CFP2-DCO MDA-e-XP. Accepts three (3) Optic Module CFP2/CFP2-DCO
7750 SR-7/12-B 3-port CFP2-DCO MDA-e-XP on the SR-7/12-B chassis specifically: <ul style="list-style-type: none"> • Up to 2x MDA-e-XP 3-port CFP2-DCOs per IOM5-e • With two of these MDA-e-XP in place, optics options are: –3x CFP2 (@100G each) in potentially all 6 ports, or–1x CFP2-DCO in the middle position on each of the two MDA-e-XP for a total of 2x 200G ports
7750 SR-s XMA (Expandable Media Adapter), 3x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) <u>This is a non-upgradeable 3 Complex XMA-s</u>
7750 SR-s XMA (Expandable Media Adapter), 3x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) <u>This is a non-upgradeable 3 Complex XMA-s</u>
7750 SR-s XMA (Expandable Media Adapter), 3x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) <u>This is a non-upgradeable 3 Complex XMA-s</u>
Upgrade license from 1.6Tbps 16 port QSFP28 XMA-CR to 2.4Tbps 24port QSFP28 XMA-CR <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
SROS license for 64k to 256k ACL entries per router, this is a per system license. Network size 1 is a network of 1 to 5 routers total.
SROS license for 64k to 256k ACL entries per router, this is a per system license. Network size 2 is a network of 6 to 25 routers total.
SROS license for 64k to 256k ACL entries per router, this is a per system license. Network size 3 is a network of 26 to 50 or more routers total.

SROS license for 64k to 512k ACL entries per router, this is a per system license. Network size 1 is a network of 1 to 5 routers total.
SROS license for 64k to 512k ACL entries per router, this is a per system license. Network size 2 is a network of 6 to 25 routers total.
SROS license for 64k to 512k ACL entries per router, this is a per system license. Network size 3 is a network of 26 to 50 or more routers total.
SROS license for using FP4 payload pattern ACL entries, this is a per system license. Network size 1 is a network of 1 to 5 routers total.
SROS license for using FP4 payload pattern ACL entries, this is a per system license. Network size 2 is a network of 6 to 25 routers total.
SROS license for using FP4 payload pattern ACL entries, this is a per system license. Network size 3 is a network of 26 to 50 or more routers total.
1-port 100/200G Coherent CFP2-DCO pluggable, SMF, 100G Coherent tunable DWDM, 0/70C
2-ports 100GBase LR4 QSFP28-DD Optic Module, 10KM, SMF, CS connector, RoHS 6/6, Digital Diagnostic Monitor (DDM), 0/70C
1-port 10GE Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 80km, Tunable across C-Band, LC Connector, Digital Diagnostic Monitor(DDM), RoHS 6/6 compliant, Low Power version, -40/85C
7750 SR-s IOM-s (Input/Output Module) 3.0T IOM-s Core Routing, accepts two modular MDA-s, 2x FP4 complex, CR (Core Router) feature set. MDA-s impedance panels needs to be added separately. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)
Hardware performance up to 3.0T.
7750 SR-s IOM-s (Input/Output Module) 3.0T IOM-s Edge Routing, accepts two modular MDA-s, 2x FP4 complex, ER (Edge Router) feature set. MDA-s impedance panels needs to be added separately. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)
Hardware performance up to 3.0T.
7750 SR-s IOM-s (Input/Output Module) 3.0T IOM-s High-Scale Edge Routing, accepts two modular MDA-s, 2x FP4 complex, HE (High-Scale Edge) feature set. MDA-s impedance panels needs to be added separately. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)
Hardware performance up to 3.0T.
7750 SR-14s/7s/2/1s MDA-s Impedance Panel, must be installed in each and every empty MDA-s slot.
7750 SR-2s LVDC complete chassis bundle, shipped with all common hardware. Includes:
(1) 3HE12340AA - CHAS - 7750 SR-2s chassis + LVDC Power Shelf
(3) 3HE12375AB - FAN - 7750 SR-2s Fan Module
(3) 3HE11185AA - PSU - LVDC 6kw Power Supply
(2) 3HE14034AA - CPM - 7750 SR-2s CPM-2s
Important Rules;
- Using the 2, 3, or 4-complex XMA-s requires both XCM-2s cards for 100% line-rate traffic on all ports simultaneously.
- If using IOM-s-1.5T or IOM-s-3.0T only a single XCM-2s is required for 100% line-rate traffic.
Additional items in which will need to be purchased separately are;
Impedence Panels in all empty slots (XCM-s, XMA-s) and optional air filter kit. Accessory kit is included and contains power and ground lugs. PSU filler panels are included for empty slots
7750 SR-2s AC/HVDC complete chassis bundle, shipped with all common hardware. Includes:
(1) 3HE12340BA - CHAS - 7750 SR-2s chassis + AC/HVDC Power Shelf
(3) 3HE12375AB - FAN - 7750 SR-2s Fan Module
(3) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply
(2) 3HE14034AA - CPM - 7750 SR-2s CPM-2s
Important Rules;
- Using the 2, 3, or 4-complex XMA-s requires both XCM-2s cards for 100% line-rate traffic on all ports simultaneously.
- If using IOM-s-1.5T or IOM-s-3.0T only a single XCM-2s is required for 100% line-rate traffic.
Additional items in which will need to be purchased separately are;
Impedence Panels in all empty slots (XCM-s, XMA-s). Power Cords and optional air filter kit. Accessory kit included
CPM - 7750 SR-s CPM-2s

<p>10-port 10/1GE SFP+/SFP MACsec MDA-a XP for the 7750 SR-a family. Optics Module must be purchased separately.</p>
<p>7705 SAR-Hm/Hmc Release 21.x OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-Hm/Hmc in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.</p>
<p>SYS - 7250 IXR-s AC Bundle contains:</p> <ul style="list-style-type: none"> (1) 3HE13343AA SYS - 7250 IXR-s (1) 3HE13344AA AC Power Supply (s) (6) 3HE13346AA 7250 IXR Fan (s)
<p>SYS - 7250 IXR-s DC Bundle contains:</p> <ul style="list-style-type: none"> (1) 3HE13343AA SYS - 7250 IXR-s (1) 3HE13345AA DC Power Supply (s) (6) 3HE13346AA 7250 IXR Fan(s)
<p>OS - 7210 SAS-K 3SFP+ 8C ETR, Release 20.X Base OS License / Native and MPLS Ethernet L2 VPNs License.</p> <p>This is a per chassis license valid for release 20.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP.</p> <p>It excludes the use IP services (e.g. VPRNs and IES services).</p> <p><u>It must also be purchased for upgrade to release 20.X. It will shipped on a SD Card.</u></p>
<p>OS - 7210 SAS-K 3SFP+ 8C ETR, Release 21.X Base OS License / Native and MPLS Ethernet L2 VPNs License.</p> <p>This is a per chassis license valid for release 21.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP.</p> <p>It excludes the use IP services (e.g. VPRNs and IES services).</p> <p><u>It must also be purchased for upgrade to release 21.X. It will shipped on a SD Card.</u></p>
<p>RTU - 7210 SAS-K 3SFP+ 8C ETR, IP services License.</p> <p>This is a per chassis license. It is a one-time license to enable IP services on the node. It enables support of IP services (e.g. VPRN, IES and L3 VPNs using BGP 3107).</p>
<p>RTU - 7210 SAS Y.1564 testhead license.</p> <p>This is a per chassis license. It is a one-time license to use the Y.1564 testhead service test framework capabilities on the node. It is required to use this capability on 7210 SAS-K 2F1C2T (ETR and non-ETR), 7210 SAS-K 2F6C4T (ETR and non-ETR) and 7210 SAS-K 3SFP+8C ETR platforms.</p>
<p>7750 SR-1s/2s LVDC chassis accessory kit.</p> <ul style="list-style-type: none"> (1) CABLE, CONSOLE, DB-9 TO RJ-45 (8) 12-24 COMB.PAN HEAD,PILOT POINT,RACK MNTNG. SCREW (34) NUT 1/4-20 CONICAL KEPS STL ZR (16) CONN,LUG,#4 AWG WIRE, 1/4" BOLT HOLES, .63" SPACING,RIGHT ANGLE (1) LUG, 4 AWG, 45 DEGREE BARREL, 0.25" STUD HOLES ON 0.625 SPACING (1) WRIST STRAP, ELASTIC, 6' COIL CORD (1) 3HE12566AA ACC - SR-s CLEANING TOOL, HONEYCOMB
<p>7750 SR-1s/2s AC/HVDC chassis accessory kit</p> <ul style="list-style-type: none"> (1) CABLE, CONSOLE, DB-9 TO RJ-45 (8) 12-24 COMB.PAN HEAD,PILOT POINT,RACK MNTNG. SCREW (2) NUT 1/4-20 CONICAL KEPS STL ZR (1) LUG, 4 AWG, 45 DEGREE BARREL, 0.25" STUD HOLES ON 0.625 SPACING (1) WRIST STRAP, ELASTIC, 6' COIL CORD (1) 3HE12566AA ACC - SR-s CLEANING TOOL, HONEYCOMB
<p>2x MPO-12 to 12 (8 used) duplex LC breakout, MMF</p>
<p>2x MPO-12 to 12 (8 used) duplex LC breakout, SMF</p>
<p>2 MPO24 to 4 MPO12 breakout, MMF</p>

7750 SR-2s Non-Control Redundant LVDC complete chassis bundle, shipped with all common hardware. Includes:

- (1) 3HE12340AA - CHAS - 7750 SR-2s chassis + LVDC Power Shelf
- (3) 3HE12375AB - FAN - 7750 SR-2s Fan Module
- (3) 3HE11185AA - PSU - LVDC 6kw Power Supply
- (1) 3HE14034AA - CPM - 7750 SR-2s CPM-2s

Important Rules;

- Using the 2, 3, or 4-complex XMA-s requires both XCM-2s cards for 100% line-rate traffic on all ports simultaneously.
- If using IOM-s-1.5T or IOM-s-3.0T only a single XCM-2s is required for 100% line-rate traffic.

Additional items in which will need to be purchased separately are;

Impedence Panels in all empty slots (XCM-s, XMA-s, CPM-s)and optional air filter kit. Accessory kit is included and contains power and ground lugs. PSU filler panels are included for empty slots

7750 SR-2s Non-Control Redundant AC/HVDC complete chassis bundle, shipped with all common hardware. Includes:

- (1) 3HE12340BA - CHAS - 7750 SR-2s chassis + AC/HVDC Power Shelf
- (3) 3HE12375AB - FAN - 7750 SR-2s Fan Module
- (3) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply
- (1) 3HE14034AA - CPM - 7750 SR-2s CPM-2s

Important Rules;

- Using the 2, 3, or 4-complex XMA-s requires both XCM-2s cards for 100% line-rate traffic on all ports simultaneously.
- If using IOM-s-1.5T or IOM-s-3.0T only a single XCM-2s is required for 100% line-rate traffic.

Additional items in which will need to be purchased separately are;

Impedence Panels in all empty slots (XCM-s, XMA-s, CPM-s), Power Cords and optional air filter kit. Accessory kit included.

7750 SR-s IOM-s (Input/Output Module) 2.4T IOM-s Core Routing, accepts two modular MDA-s, 2x FP4 complex, CR (Core Router) feature set. MDA-s impedance panels needs to be added separately. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This card is based off "3HE14027xA - XMA - IOM-s - SR-s IOM-s 3.0T"

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable to 3.0T.~~

7750 SR-s IOM-s (Input/Output Module) 2.4T IOM-s Edge Routing, accepts two modular MDA-s, 2x FP4 complex, ER (Edge Router) feature set. MDA-s impedance panels needs to be added separately. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE14027xA - XMA - IOM-s - SR-s IOM-s 3.0T"

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable to 3.0T.~~

7750 SR-s IOM-s (Input/Output Module) 2.4T IOM-s High-Scale Edge Routing, accepts two modular MDA-s, 2x FP4 complex, HE (High-Scale Edge) feature set. MDA-s impedance panels needs to be added separately. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This card is based off "3HE14027xA - XMA - IOM-s - SR-s IOM-s 3.0T"

Full High-Scale Edge feature set

~~Hardware performance upgradeable to 3.0T.~~

UPG - IOM-s 1.6T CR to 2.4T CR

UPG - IOM-s 1.6T ER to 2.4T ER

UPG - IOM-s 1.6T HE to 2.4T HE

UPG - IOM-s 1.6T CR to 1.6T ER

UPG - IOM-s 1.6T ER to 1.6T HE

UPG - IOM-s 2.4T CR to 2.4T ER

UPG - IOM-s 2.4T CR to 3.0T CR

UPG - IOM-s 2.4T ER to 2.4T HE

UPG - IOM-s 2.4T ER to 3.0T ER

UPG - IOM-s 2.4T HE to 3.0T HE

UPG - IOM-s 3.0T CR to 3.0T ER

UPG - IOM-s 3.0T ER to 3.0T HE

ACC-7210SAS-Sx 10/100 19"Rear Rack Mount

Rack mounted panel perforated to allow airflow through it, typically used as part of slide mounting the unit in a rack

OS - 7210 SAS-Mxp, Release 20.X Base OS License, Satellite Mode.

This is a per chassis license for release 20.X. It allows for operating the chassis in satellite mode. It is required to operate 7210 SAS-Mxp ETR and non-ETR chassis, in satellite mode.

It excludes the use standalone mode of operation.

It must also be purchase for upgrade to release 20.X.

Includes one (1) programmed 2GB Compact Flash cards with the Operating Software.

OS - 7210 SAS-Mxp, Release 21.X Base OS License, Satellite Mode.

This is a per chassis license for release 21.X. It allows for operating the chassis in satellite mode. It is required to operate 7210 SAS-Mxp ETR and non-ETR chassis, in satellite mode.

It excludes the use standalone mode of operation.

It must also be purchase for upgrade to release 21.X.

Includes one (1) programmed 2GB Compact Flash cards with the Operating Software.

7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28.

Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC" licensed to 2.4T throughput and 24-connectors hard license enabled.

Software scale upgradeable to ER or HE feature set.

Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.

7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28.

Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC" licensed to 2.4T throughput and 24-connectors hard license enabled.

Software scale upgradeable to HE feature set.

Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.

7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)
This 7750 SR-1s is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 2.4T throughput and 24-connectors hard license enabled.
Full High-Scale Edge feature set.
Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.
1-port 10GBase Small Form-Factor Pluggable (SFP+) eZR Optic Module, 1550nm, up to 110km, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, 0/70C
ACC – 7750 SR-2s spare air filters qty 10
7750 SR-1s Air Filter mounting Hardware kit. Ships with one filter media.
The Filter kit is highly recommend for every installation and therefore, should be order with each system
ACC – 7750 SR-1s spare air filters qty 10
7250 IXR-e 24xSFP+/SFP + 8xSFP28/SFP+ + 2xQSFP28 (IXR-e Big). Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.
Conformal coated 7250 IXR-e 24xSFP+/SFP + 8xSFP28/SFP+ + 2xQSFP28. Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.
7250 IXR-e 14xSFP+/SFP + 4xRJ45 (IXR-e Small). Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.
Conformal coated 7250 IXR-e 14xSFP+/SFP + 4xRJ45. Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.
PS - 7250 IXR-e AC Fits both IXR-e Models
PS - Conformal coated 7250 IXR-e AC Fits both IXR-e Models
PS - 7250 IXR-e 20-60V DC Fits both IXR-e platforms
PS - Conformal coated 7250 IXR-e 20-72V DC Fits both IXR-e platforms
SYS - 7210 SAS-Dxp 2SFP+ 4F 6T AC
SYS - 7210 SAS-Dxp 2SFP+ 4F 6T DC -48V
SYS - 7210 SAS-Dxp 2SFP+ 4F 6T ETR AC
For redundant Power Supply see 3HE10964 & 3HE10965
SYS - 7210 SAS-Dxp 2SFP+ 4F 6T ETR DC -48V
For redundant Power Supply see 3HE10964 & 3HE10965
QSFP28 - SFP28/SFP+ Adapter, 0/70C
7750/7950 - QSFP28 - SFP28/SFP+ Adapter will only support 10GE SFP+ in the FP4 based cards, 25GE SFP28 will not be supported.
7250 - QSFP28 - SFP28/SFP+ Adapter will only support 25G SFP28 in the QSFP28 base cards, 10GE SFP+ will not be supported.
SFP – GNSS SFP – support GPS G.8275.1 full timing support with Ethernet encapsulation. GPS receiver and grandmaster.
1-port 25GBASE-SR Small Form-Factor Pluggable+ (SFP28) Optics Module, Multi-Mode Fiber (MMF), 100m, 850nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
1-port 25GBASE-LR Small Form-Factor Pluggable+ (SFP28) Optics Module, Single Mode Fiber (SMF), 10km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
7750 SR 8-ports 10/25GE MDA-e supports MACsec on all ports. Accepts eight (8) SFP+/SFP28 10Gbase or 25Gbase Optic Modules.
RTU - Right to Use - 1GE MACSEC (1 License per MACsec enabled port)
RTU - Right to Use - 10GE MACSEC (1 License per MACsec enabled port)
RTU - Right to Use - 25GE MACSEC (1 License per MACsec enabled port)
RTU - Right to Use - 100GE MACSEC (1 License per MACsec enabled port)
7750 SR 16-ports 10/25GGBASE MACsec + 2-ports 10/40/100GBase MDA-e-XP. Accepts sixteen (16) 10/25GBase Optic Module SFP+/SFP28 + two (2) 10/40/100GBase QSFP+/QSFP28 pluggable optics.
7750 SR 6-ports 10/40/100/400GBASE QSFP-DD MDA-e-XP. Accepts six (6) 10/40/100/400GBase Optic Mod7750 SR 6-ports 10/40/100/400GBASE QSFP-DD MDA-e-XP, designed to maximize 4x100G breakout, 400G interfaces can be used with iFIFO. If 1x400G line-rate is required use the 3HE15764AA - MDA-e-XP 7750 SR 3pt QSFP-DD for 400G interfaces .
Accepts six (6) 100G, 2x100G, 4x10, 1x40G and 10x10GBase Optic Module QSFP+/QSFP28/QSFP28-DD/QSFP56-DD. ule QSFP+/QSFP28/QSFP28-DD/QSFP56-DD.

<p>7750 SR IOM5-e, 1x FP4 complex, performance restricted to 800G FD non-redundant, accepts two (2) MDA-e-XP. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>This card is based off "3HE12332xA - IOM - 7750 SR IOM5-e" licensed to 800G throughput.</p> <p>Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 800G to 1.5T</p> <p>7750 SR-7/12-B - licensed to 800G non-redundant throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP is not supported</p> <p>7750 SR-12e - licensed to 800G redundant throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions</p>
<p>7750 SR IOM5-e, 1x FP4 complex, performance restricted to 800G FD non-redundant, accepts two (2) MDA-e-XP. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>This card is based off "3HE12332xA - IOM - 7750 SR IOM5-e" licensed to 400G throughput.</p> <p>Software scale upgradeable to HE feature set. Hardware performance upgradeable from 800G to 1.5T</p> <p>7750 SR-7/12-B - licensed to 800G non-redundant throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP is not supported</p> <p>7750 SR-12e - licensed to 800G redundant throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions</p>
<p>7750 SR IOM5-e, 1x FP4 complex, performance restricted to 800G FD non-redundant, accepts two (2) MDA-e-XP. High-Scale Edge (ER) no restrictions on h/w queues or egress policers</p> <p>This card is based off "3HE12332xA - IOM - 7750 SR IOM5-e" licensed to 800G throughput.</p> <p>Full High-Scale Edge feature set Hardware performance upgradeable from 800G to 1.5T</p> <p>7750 SR-7/12-B - licensed to 800G non-redundant throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP is not supported</p> <p>7750 SR-12e - licensed to 800G redundant throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions</p>
<p>1-port 400GBase SR8 100m QSFP56-DD Optics Module, 100m, MPO Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)</p>
<p>1-port 400GBase LR8 10km QSFP56-DD Optics Module, 10km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)</p>
<p>AC Power cable with SAF-D-GRID 300 (Key C) T Latch to NEMA L6-30P 10 AWG, 3m length for NA</p>
<p>Upgrade from IOM5-e 400G CR (Core Router) to IOM5-e 800G CR (Core Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade from IOM5-e 400G ER (Edge Router) to IOM5-e 800G ER (Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade from IOM5-e 400G HE (High-Scale Edge) to IOM5-e 800G HE (High-Scale Edge) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade from IOM5-e 800G CR (Core Router) to IOM5-e 800G ER (Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade from IOM5-e 800G ER (Edge Router) to IOM5-e 800G HE (High-Scale Edge) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>

<p>Upgrade from IOM5-e 800G CR (Core Router) to IOM5-e 1.5T CR (Core Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade from IOM5-e 800G ER (Edge Router) to IOM5-e 1.5T ER (Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade from IOM5-e 800G HE (High-Scale Edge) to IOM5-e 1.5T HE (High-Scale Edge) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 600Gbps 6 port QSFP28 XMA-s -CR to 600Gbps 6 port QSFP28 XMA-s - ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 600Gbps 6 port QSFP28 XMA-s - ER (Edge Router) to 600Gbps 6 port QSFP28 XMA-s - HE (High-Scale Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 600Gbps 6 port QSFP28 XMA-s -CR (Core Router) to 1.2Tbps 12 port QSFP28 XMA-s - CR (Core Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 600Gbps 6 port QSFP28 XMA-s -ER (Edge Router) to 1.2Tbps 12 port QSFP28 XMA-s - ER (Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 600Gbps 6 port QSFP28 XMA-s -HE (High-Scale Edge Router) to 1.2Tbps 12 port QSFP28 XMA-s - HE (High-Scale Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 1.2Tbps 12 port QSFP28 XMA-s - CR (Core Router) to 1.2Tbps 12 port QSFP28 XMA-s - ER (Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license from 1.2Tbps 12 port QSFP28 XMA-s - ER (Edge Router) to 1.2Tbps 12 port QSFP28 XMA-s - HE (High-Scale Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>Upgrade license to enable aggregation mode up to 1.8T / 18 ports QSFP28 XMA-s (applies to CR, ER, HE variants) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i></p>
<p>1-port 400GBase DR4 or 4-port 100GBase QSFP56-DD Optics Module, 500m, MPO12 Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)</p>
<p>1-port 400GBase FR4 2km QSFP56-DD Optics Module, 2km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)</p>
<p>4-port 100GBase QSFP56-DD Optics Module, 2km, MPO12 Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)</p>
<p>1-port 100GBase DR Single Lambda QSFP28 Optics Module, 500m, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C</p>
<p>1-port 100GBase FR Single Lambda QSFP28 Optics Module, 2km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C</p>
<p>1-port 50GBase LR 10km QSFP28 Optics Module, 10km, LC Connector, RoHS 6/6 compliant, 0/70C Temperature</p>
<p>1-port 50GBase ER 40km QSFP28 Optics Module, 40km, LC Connector, RoHS 6/6 compliant, 0/70C Temperature</p>

<p>1-port 50GBase SR 100m SFP56 Optics Module, 100m, LC Connector, MMF, 850nm, RoHS 6/6 compliant, 0/70C Temperature</p> <p>SROS URL Filter Res 10k Subs - Right to Use required for Application Assurance integrated web content categorization filtering for residential ESM or transit-AA subscribers, using related ION Web Categorization Services. One of these RTUs is required for URL filtering for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per Network license.</p>
<p>SROS URL Filter Wifi 10k Subs - Right to Use required for Application Assurance integrated web content categorization filtering for residential wifi ESM or DSM subscribers, using related ION Web Categorization Services. One of these RTUs is required for URL filtering for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per Network license.</p>
<p>SROS Flow Attributes 10 Gbps. Right to Use required to enable flow attributes for up to 10Gb/s. Requires ordering of AA ID as pre-requisite. One of these ASLs is required for every increment of 10Gbps. Multiple instances may be applied to a single system to allow the desired scale.</p>
<p>ASL VSR-AA Web Content Ctl Wifi 10k Subs for a duration of 5 years (60 months) validity. Application Software License to enables integrated web content filtering, instead of ICAP use. Requires ordering of AA ID and Control ASL as pre-requisite. One of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale.</p>
<p>ASL VSR-AA Flow Attributes Res 10k Subs. Application Software License required for flow attributes for residential subscribers. Requires ordering of AA ID and Control ASL as pre-requisite. One of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single system to allow the desired scale.</p>
<p>ASL VSR-AA Web Content Ctl Wifi 10k Subs. Application Software License to enables integrated web content categorization filtering, using related ION Web Categorization Services. Requires ordering of AA ID and Control ASL as pre-requisite. One of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale.</p>
<p>ASL VSR-AA Flow Attributes Wifi 10k Subs. Enables flow attributes for Wifi ESM or DSM subscribers. Requires ordering of AA ID and Control ASL as pre-requisite. One of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale.</p>
<p>1-port 25GBASE-ER Small Form-Factor Pluggable+ (SFP28) Optics Module, Single Mode Fiber (SMF), 40km, 1295 to 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C</p>
<p>1-port 25GBASE-BX10-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP28) Optics Module, Single Mode Fiber (SMF), 10km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C</p>
<p>1-port 25GBASE-BX10-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP28) Optics Module, Single Mode Fiber (SMF), 10km, TX: 1270 nm, RX: 1330 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Extended Temperature -40/85C</p>
<p>1-port 25GBASE-BX20-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP28) Optics Module, Single Mode Fiber (SMF), 20km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C</p>
<p>1-port 25GBASE-BX20-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP28) Optics Module, Single Mode Fiber (SMF), 20km, TX: 1270 nm, RX: 1330 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Extended Temperature -40/85C</p>
<p>7250 IXR-e 24xSFP+/SFP + 8xSFP28/SFP+ + 2xQSFP28 plus internal GNSS receiver (IXR-e Big GNSS). Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.</p>
<p>Conformal coated 7250 IXR-e 24xSFP+/SFP + 8xSFP28/SFP+ + 2xQSFP28 plus internal GNSS receiver. Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.</p>
<p>7250 IXR-e 14xSFP+/SFP + 4xRJ45 plus internal GNSS receiver (IXR-e Small GNSS). Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.</p>
<p>Conformal coated 7250 IXR-e 14xSFP+/SFP + 4xRJ45 plus internal GNSS receiver. Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.</p>
<p>RTU - 7705 SAR-Hm/Hmc NAT license. Includes maximum supported NAT session and throughput available on one SAR-Hm/Hmc node. One (1) OS License is required for each SAR-Hm/Hmc in the network.</p>

ASL VSR-AA Roaming Firewall 1Gbps. Application Software License required for mobile network Roaming GTP firewall. Requires ordering of AA Stateful Firewall ASL as pre-requisite.

One of these ASLs is required for every increment of 1Gbps of traffic. Multiple instances may be applied to a single system to allow the desired scale.

SROS Roaming Firewall License per 10Gbps. Right to Use required for mobile network Roaming GTP firewall. Requires ordering of AA Stateful Firewall RTU as pre-requisite. One of these RTUs is required for every increment of 10Gbps of traffic. Multiple instances may be applied to a single system to allow the desired scale.

ACC - 7250 IXR-e Fan Filter (18 pack) Fits both IXR-e platforms

7750 SR-s IOM-s (Input/Output Module) 800G IOM-s Core Routing, accepts two modular MDA-s, 1x FP4 complex, CR (Core Router) feature set. MDA-s impedance panels needs to be added separately. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This card is based off "3HE15416xA - XMA - IOM-s - SR-s IOM-s 1.5T"

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable to 1.5T~~

7750 SR-s IOM-s (Input/Output Module) 800G IOM-s Edge Router, accepts two modular MDA-s, 1x FP4 complex, ER (Edge Router) feature set. MDA-s impedance panels needs to be added separately. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE15416xA - XMA - IOM-s - SR-s IOM-s 1.5T"

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable to 1.5T~~

7750 SR-s IOM-s (Input/Output Module) 800G IOM-s High-Scale Edge, accepts two modular MDA-s, 1x FP4 complex, HE (High-Scale Edge) feature set. MDA-s impedance panels needs to be added separately. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This card is based off "3HE15416xA - XMA - IOM-s - SR-s IOM-s 1.5T"

Full High-Scale Edge feature set

~~Hardware performance upgradeable to 1.5T~~

7750 SR-s IOM-s (Input/Output Module) 1.5T IOM-s Core Routing, accepts two modular MDA-s, 1x FP4 complex, CR (Core Router) feature set. MDA-s impedance panels needs to be added separately. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

~~Hardware performance up to 1.5T~~

7750 SR-s IOM-s (Input/Output Module) 1.5T IOM-s Edge Routing, accepts two modular MDA-s, 1x FP4 complex, ER (Edge Router) feature set. MDA-s impedance panels needs to be added separately. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

~~Hardware performance up to 1.5T~~

7750 SR-s IOM-s (Input/Output Module) 1.5T IOM-s High-Scale Edge Routing, accepts two modular MDA-s, 1x FP4 complex, HE (High-Scale Edge) feature set. MDA-s impedance panels needs to be added separately. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

~~Hardware performance up to 1.5T~~

7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 1.6T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s Modular is based off "3HE15421xA - SYS - SR-1s MODULAR 3.0T - CR DC" licensed to 1.6T throughput.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 1.6T to 2.4T or 3.0T intelligent fan-in/fan-out.~~

7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 1.6T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This 7750 SR-1s Modular is based off "3HE15421xA - SYS - SR-1s MODULAR 3.0T - CR DC" licensed to 1.6T throughput.

Software scale upgradeable to HE feature set.

Hardware performance upgradeable from 1.6T to 2.4T or 3.0T intelligent fan-in/fan-out.

7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 1.6T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s Modular is based off "3HE15421xA - SYS - SR-1s MODULAR 3.0T - CR DC" licensed to 1.6T throughput.

Full High-Scale Edge feature set.

Hardware performance upgradeable from 1.6T to 2.4T or 3.0T intelligent fan-in/fan-out.

7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 1.6T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s Modular is based off "3HE15422xA - SYS - SR-1s MODULAR 3.0T - CR AC" licensed to 1.6T.

Software scale upgradeable to ER or HE feature set.

Hardware performance upgradeable from 1.6T to 2.4T or 3.0T intelligent fan-in/fan-out.

7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This 7750 SR-1s Modular is based off "3HE15422xA - SYS - SR-1s MODULAR 3.0T - CR AC" licensed to 1.6T.

Software scale upgradeable to ER or HE feature set.

Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.

7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 1.6T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s Modular is based off "3HE15422xA - SYS - SR-1s MODULAR 3.0T - CR AC" licensed to 1.6T.

Full High-Scale Edge feature set.

Hardware performance upgradeable from 1.6T to 2.4T or 3.0T intelligent fan-in/fan-out.

7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 2.4T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s Modular is based off "3HE15421xA - SYS - SR-1s MODULAR 3.0T - CR DC" licensed to 2.4T throughput.

Software scale upgradeable to ER or HE feature set.

Hardware performance upgradeable from 2.4T or 3.0T intelligent fan-in/fan-out.

7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 2.4T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This 7750 SR-1s Modular is based off "3HE15421xA - SYS - SR-1s MODULAR 3.0T - CR DC" licensed to 2.4T throughput.

Software scale upgradeable to HE feature set.

Hardware performance upgradeable from 2.4T or 3.0T intelligent fan-in/fan-out.

7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 2.4T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s Modular is based off "3HE15421xA - SYS - SR-1s MODULAR 3.0T - CR DC" licensed to 2.4T throughput.

Full High-Scale Edge feature set.

Hardware performance upgradeable from 2.4T or 3.0T intelligent fan-in/fan-out.

<p>7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 2.4T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>This 7750 SR-1s Modular is based off “ 3HE15422xA - SYS - SR-1s MODULAR 3.0T - CR AC” licensed to 2.4T.</p> <p>Software scale upgradeable to ER or HE feature set.</p> <p><u>Hardware performance upgradeable from 2.4T or 3.0T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 2.4T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>This 7750 SR-1s Modular is based off “ 3HE15422xA - SYS - SR-1s MODULAR 3.0T - CR AC” licensed to 2.4T.</p> <p>Software scale upgradeable to ER or HE feature set.</p> <p><u>Hardware performance upgradeable from 2.4T or 3.0T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 2.4T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)</p> <p>This 7750 SR-1s Modular is based off “ 3HE15422xA - SYS - SR-1s MODULAR 3.0T - CR AC” licensed to 2.4T.</p> <p>Full High-Scale Edge feature set.</p> <p><u>Hardware performance upgradeable from 2.4T or 3.0T intelligent fan-in/fan-out.</u></p>
<p>7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 3.0T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>Software scale upgradeable to ER or HE feature set.</p>
<p>7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 3.0T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>Software scale upgradeable to HE feature set.</p>
<p>7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 3.0T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)</p> <p>Full High-Scale Edge feature set.</p>
<p>7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 3.0T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>Software scale upgradeable to ER or HE feature set.</p>
<p>7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 3.0T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>Software scale upgradeable to ER or HE feature set.</p>
<p>7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 3.0T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)</p> <p>Full High-Scale Edge feature set.</p>
<p>ACC - 7210 SAS-Dxp Rack Mount</p>

OS - 7210 SAS-Dxp 2SFP+ 4F6T, Release 20.X Base OS license / Native Ethernet L2 VPNs license.

This license is required for both 7210 SAS-Dxp ETR and non-ETR variants.

This is a per chassis license valid for release 20.X. It provides the Base OS and includes support for native Ethernet services (e.g. Layer-2 VPLS and Epipe services).

It must be also purchased for upgrade to release 20.X. It will shipped on a SD Card.

OS - 7210 SAS-Dxp 2SFP+ 4F6T, Release 21.X Base OS license / Native Ethernet L2 VPNs license.

This license is required for both 7210 SAS-Dxp ETR and non-ETR variants.

This is a per chassis license valid for release 21.X. It provides the Base OS and includes support for native Ethernet services (e.g. Layer-2 VPLS and Epipe services).

It must be also purchased for upgrade to release 21.X. It will shipped on a SD Card.

RTU - 7210 SAS-K MACsec license.

This is a per chassis license. It is a one-time license to use the MACsec capabilities on the node for either 1GE port or 10GE port, as applicable. It is required to use MACsec capability on 7210 SAS-K 2F6C4T ETR and 7210 SAS-K 3SFP+8C ETR platforms.

UPG - IOM-s 800G CR to 800G ER

UPG - IOM-s 800G ER to 800G HE

UPG - IOM-s 800G CR to 1.5T CR

UPG - IOM-s 800G ER to 1.5T ER

UPG - IOM-s 800G HE to 1.5T HE

UPG - IOM-s 1.5T CR to 1.5T ER

UPG - IOM-s 1.5T ER to 1.5T HE

Upgrade license from SR-1s Modular 1.6T CR to 2.4T CR

Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).

Upgrade license from SR-1s Modular 1.6T ER to 2.4T ER

Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).

Upgrade license from SR-1s Modular 1.6T HE to 2.4T HE

Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).

Upgrade license from SR-1s Modular 1.6T CR to 1.6T ER

Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).

Upgrade license from SR-1s Modular 1.6T ER to 1.6T HE

Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).

Upgrade license from SR-1s Modular 2.4T CR to 2.4T ER

Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).

Upgrade license from SR-1s Modular 2.4T ER to 2.4T HE

Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).

Upgrade license from SR-1s Modular 2.4T CR to 3.0T CR <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
Upgrade license from SR-1s Modular 2.4T ER to 3.0T ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
Upgrade license from SR-1s Modular 2.4T HE to 3.0T HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
Upgrade license from SR-1s Modular 3.0T CR to 3.0T ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
Upgrade license from SR-1s Modular 3.0T ER to 3.0T HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
SYS-7250 IXR-e 24SFP+ 8SFP28 2QSFP28 AC Bundle Includes: (1) 3HE14782AA SYS - 7250 IXR-e 24SFP+ 8SFP28 2QSFP28 (2) 3HE14784AA PS - 7250 IXR-e AC Software image and AC Power Cables Not included
SYS-7250 IXR-e 24SFP+ 8SFP28 2QSFP28 DC Bundle Includes: (1) 3HE14782AA SYS - 7250 IXR-e 24SFP+ 8SFP28 2QSFP28 (2) 3HE14785AA PS - 7250 IXR-e DC Software image Not included
SYS-7250 IXR-e 14SFP+ 4T AC Bundle Includes: (1) 3HE14783AA SYS - 7250 IXR-e 14SFP+ 4T (2) 3HE14784AA PS - 7250 IXR-e AC Software image and AC Power Cables Not included
SYS-7250 IXR-e 14SFP+ 4T AC Bundle Includes: (1) 3HE14783AA SYS - 7250 IXR-e 14SFP+ 4T (2) 3HE14785AA PS - IXR-e DC Software image Not included
7750 SR-s 3-port CFP2-DCO MDA-s. 100 Gbps transmission using QPSK modulation for metro-core and long-haul applications and 200 Gbps (2x100G) for metro-access applications. Accepts three (3) CFP-DCO Optic Module.
7750 SR-s 8-ports SFP-DD (10/25/100G) MACsec + 2-ports QSFP28 (10/40/100G) MDA-s. Accepts (8) 10/25/100GBase Optic Module SFP+/SFP28/SFP-DD + (2) 10/40/100GBase QSFP+/QSFP28.
7750 SR-s 2-ports QSFP56-DD (10/40/100/400G) + 2-ports QSFP28 (10/40/100G) MDA-s. Accepts (2) 10/40/100/400GBase Optic Module QSFP+/QSFP28/QSFP28-DD/QSFP56-DD + (2) 10/40/100GBase QSFP+/QSFP28.
GNSS Antenna bracket
ASL VSR Telemetry - Application Software License (ASL) required to enable the Telemetry feature. One (1) license is required per VSR.
7250 IXR-10 SRLinux System License 19.x – one per system
7250 IXR-10 SR Linux System license 20.x – one per system requiring base level functionality. Supplied with media.
7250 IXR-10 SR Linux System license 21.x – one per system requiring base level functionality. Supplied with media.
Deepfield Techops connector -- Large.
Deepfield Techops connector -- Medium.
Deepfield Techops connector -- Small.
SYS - 7220 IXR-D1 88G 48baseT 4SFP+, base platform. Does not include fans or power supplies.
SYS - 7220 IXR-D2 2.0T 48SFP28 8QSFP28, base platform. Does not include fans or power supplies.
SYS - 7220 IXR-D3 3.2T 32QSFP28 2SFP+, base platform. Does not include fans or power supplies.
PS - 7220 IXR-D1 48baseT 4SFP+ AC (FtoB)
PS - 7220 IXR-D1 48baseT 4SFP+ AC (BtoF)
PS - 7220 IXR-D1 48baseT 4SFP+ -48V DC (FtoB)
PS - 7220 IXR-D1 48baseT 4SFP+ -48V DC (BtoF)
FAN - 7220 IXR-D1 48baseT 4SFP+ Fan Tray (FtoB)

FAN - 7220 IXR-D1 48baseT 4SFP+ Fan Tray (BtoF)
1-port 100GBase FR Single Lambda SFP-DD Optics Module, 2km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
1-port 100GBase LR Single Lambda SFP-DD Optics Module, 10km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
7250 IXR-e PSU Impedance Panel five pack
7250 IXR-e Rack Mount Bracket ten pack
7250 IXR Large variants Release 21.x Operating Software License. Notes: One (1) Operating Software License is required for each IXR-6/10/R6/s/Xs/X1 in the network. Includes programmed media with the Operating Software.
7250 IXR Large variants Release 21.x Operating Software License with ZTP enabled. Notes: One (1) Operating Software License is required for each IXR-6/10/R6/s/Xs/X1 in the network. Includes programmed media with the Operating Software.
7250 IXR Medium variants Release 21.x Operating Software License. Notes: One (1) Operating Software License is required for each IXR-R4, IXR-e (2p 100G, 8p 25G, 24p 10G including GNSS variants) in the network. Includes programmed media with the Operating Software.
7250 IXR Medium variants Release 21.x Operating Software License with ZTP enabled. Notes: One (1) Operating Software License is required for each IXR-R4, IXR-e (2p 100G, 8p 25G, 24p 10G including GNSS variants) in the network. Includes programmed media with the Operating Software.
7250 IXR Small variants Release 20.x Operating Software License. Notes: One (1) Operating Software License is required for each IXR-e (14p 10G, 4p Tx including GNSS variants), IXR-ec in the network. Includes programmed media with the Operating Software.
7250 IXR Small variants Release 21.x Operating Software License with ZTP enabled. Notes: One (1) Operating Software License is required for each IXR-e (14p 10G, 4p Tx including GNSS variants), IXR-ec in the network. Includes programmed media with the Operating Software.
7750 SR-1s Modular + LVDC Power Shelf Bundle, 1.6T (supports two MDA-s) Core Router feature set; Includes the following; (1) 3HE15417AA - SYS - SR-1s MODULAR 1.6T - CR DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s, 2x FP4 complex, performance to 1.6T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off "3HE15421xA - SYS - SR-1s MODULAR 3.0T - DC" licensed to 1.6T throughput. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.0T
7750 SR-1s Modular + LVDC Power Shelf Bundle, 1.6T (supports two MDA-s) Edge Router feature set; Includes the following; (1) 3HE15417BA - SYS - SR-1s MODULAR 1.6T - ER DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 1.6T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off "3HE15421xA - SYS - SR-1s MODULAR 3.0T - DC" licensed to 1.6T throughput. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.0T

7750 SR-1s Modular + LVDC Power Shelf Bundle, 1.6T (supports two MDA-s) High Scale Edge feature set;

Includes the following;

- (1) 3HE15417CA - SYS - SR-1s MODULAR 1.6T - HE DC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 1.6T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE15421xA - SYS - SR-1s MODULAR 3.0T - DC" licensed to 1.6T throughput.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 1.6T to 2.4T or 3.0T~~

7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 1.6T (supports two MDA-s) Core Router feature set;

Includes the following;

- (1) 3HE15418AA - SYS - SR-1s MODULAR 1.6T - CR AC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s, 2x FP4 complex, performance to 1.6T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE15422xA - SYS - SR-1s MODULAR 3.0T - AC" licensed to 1.6T throughput.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 1.6T to 2.4T or 3.0T~~

7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 1.6T (supports two MDA-s) Edge Router feature set;

Includes the following;

- (1) 3HE15418BA - SYS - SR-1s MODULAR 1.6T - ER AC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 1.6T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE15422xA - SYS - SR-1s MODULAR 3.0T - AC" licensed to 1.6T throughput.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 1.6T to 2.4T or 3.0T~~

7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 1.6T (supports two MDA-s) High Scale Edge feature set;

Includes the following;

- (1) 3HE15418CA - SYS - SR-1s MODULAR 1.6T - HE AC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 1.6T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE15422xA - SYS - SR-1s MODULAR 3.0T - AC" licensed to 1.6T throughput.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 1.6T to 2.4T or 3.0T~~

7750 SR-1s Modular + LVDC Power Shelf Bundle, 2.4T (supports two MDA-s) Core Router feature set;

Includes the following;

- (1) 3HE15419AA - SYS - SR-1s MODULAR 2.4T - CR DC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s, 2x FP4 complex, performance to 2.4T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE15422xA - SYS - SR-1s MODULAR 3.0T - AC" licensed to 2.4T throughput.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 2.4T to 3.0T~~

7750 SR-1s Modular + LVDC Power Shelf Bundle, 2.4T (supports two MDA-s) Edge Router feature set;

Includes the following;

- (1) 3HE15419BA - SYS - SR-1s MODULAR 2.4T - ER DC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE15421xA - SYS - SR-1s MODULAR 3.0T - DC" licensed to 2.4T throughput.

Software scale upgradeable to HE feature set.

~~Hardware performance upgradeable from 2.4T to 3.0T~~

7750 SR-1s Modular + LVDC Power Shelf Bundle, 2.4T (supports two MDA-s) Edge Router feature set;

Includes the following;

- (1) 3HE15419CA - SYS - SR-1s MODULAR 2.4T - HE DC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE15421xA - SYS - SR-1s MODULAR 3.0T - DC" licensed to 2.4T throughput.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 2.4T to 3.0T~~

7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 2.4T (supports two MDA-s) Core Router feature set;

Includes the following;

- (1) 3HE15420AA - SYS - SR-1s MODULAR 2.4T - CR AC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s, 2x FP4 complex, performance to 2.4T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

This 7750 SR-1s is based off "3HE15422xA - SYS - SR-1s MODULAR 3.0T - AC" licensed to 2.4T throughput.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 2.4T to 3.0T~~

~~7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 2.4T (supports two MDA-s) Edge Router feature set;~~

Includes the following;

- (1) 3HE15420BA - SYS - SR-1s MODULAR 2.4T - ER AC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

This card is based off "3HE13801xA - SYS - SR-1s MODULAR 3.0T - CR AC" licensed to 2.4T throughput.

Software scale upgradeable to ER or HE feature set.

~~Hardware performance upgradeable from 2.4T to 3.6T~~

~~7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 2.4T (supports two MDA-s) High-Scale Edge feature set;~~

Includes the following;

- (1) 3HE15420CA - SYS - SR-1s MODULAR 2.4T - HE AC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE15422xA - SYS - SR-1s MODULAR 3.0T - AC" licensed to 2.4T throughput.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 2.4T to 3.6T~~

~~7750 SR-1s Modular + LVDC Power Shelf Bundle, 3.0T (supports two MDA-s), Core Router feature set;~~

Includes the following;

- (1) 3HE15421AA - SYS - SR-1s MODULAR 3.0T - CR DC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 3.0T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

Software scale upgradeable to ER or HE feature set.

~~Hardware performance up to 3.0T FD~~

~~7750 SR-1s Modular + LVDC Power Shelf Bundle, 3.0T (supports two MDA-s), Edge Router feature set;~~

Includes the following;

- (1) 3HE15421BA - SYS - SR-1s MODULAR 3.0T - ER DC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 3.0T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

Software scale upgradeable to HE feature set.

~~Hardware performance up to 3.0T FD~~

7750 SR-1s Modular + LVDC Power Shelf Bundle, 3.0T (supports two MDA-s), High Scale Edge feature set;

Includes the following;

- (1) 3HE15421CA - SYS - SR-1s MODULAR 3.0T - HE DC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 3.0T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

Full High-Scale Edge feature set.

~~Hardware performance up to 3.0T FD~~

7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 3.0T (supports two MDA-s), Core Router feature set;

Includes the following;

- (1) 3HE15422AA - SYS - SR-1s MODULAR 3.0T - CR AC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 3.0T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)

Software scale upgradeable to ER or HE feature set.

~~Hardware performance up to 3.0T FD~~

7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 3.0T (supports two MDA-s), Edge Router feature set:

Includes the following;

- (1) 3HE15422BA - SYS - SR-1s MODULAR 3.0T - ER AC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 3.0T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)

Software scale upgradeable to HE feature set.

~~Hardware performance up to 3.0T FD~~

7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 3.0T (supports two MDA-s), High Scale Edge feature set;

Includes the following;

- (1) 3HE15422CA - SYS - SR-1s MODULAR 3.0T - HE AC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance to 3.0T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

Full High-Scale Edge feature set.

~~Hardware performance up to 3.0T FD~~

7250 IXR-6/10 SRLinux Linecard License – one per deployed linecard

7250 IXR-6/10 SR Linux 20.x Linecard license – one per deployed linecard

7250 IXR-6/10 SR Linux 21.x Linecard license – one per deployed linecard

7250 IXR-10 LVDC Complete chassis bundle including:

- (1) 3HE11770AA - CHAS - 7250 IXR-10 Chassis
- (4) 3HE11752AA - PSU - 7250 IXR LVDC
- (6) 3HE12446AA - SFM - 7250 IXR-10 SFM2
- (2) 3HE12458AA - CPM - 7250 IXR CPM2 SSD
- (3) 3HE11769AA - FAN - 7250 IXR-10 Fan Tray

<p>7250 IXR-6 LVDC complete chassis bundle including:</p> <ul style="list-style-type: none"> (1) 3HE11760AA - CHAS - 7250 IXR-6 Chassis (2) 3HE11752AA - PSU - 7250 IXR LVDC (6) 3HE12382AA - SFM - 7250 IXR-6 SFM2 (2) 3HE12458AA - CPM - 7250 IXR CPM2 SSD (3) 3HE11759AA - FAN - 7250 IXR-6 Fan Tray
<p>7250 IXR-10 AC/HVDC complete chassis bundle including:</p> <ul style="list-style-type: none"> (1) 3HE11770AA - CHAS - 7250 IXR-10 Chassis (4) 3HE11751AA - PSU - 7250 IXR AC/HVDC (6) 3HE12446AA - SFM - 7250 IXR-10 SFM2 (2) 3HE12458AA - CPM - 7250 IXR CPM2 SSD (3) 3HE11769AA - FAN - 7250 IXR-10 Fan Tray
<p>7250 IXR-6 AC/HVDC complete chassis bundle including:</p> <ul style="list-style-type: none"> (1) 3HE11760AA - CHAS - 7250 IXR-6 Chassis (2) 3HE11751AA - PSU - 7250 IXR AC/HVDC (6) 3HE12382AA - SFM - 7250 IXR-6 SFM2 (2) 3HE12458AA - CPM - 7250 IXR CPM2 SSD (3) 3HE11759AA - FAN - 7250 IXR-6 Fan Tray
<p>16F MMF MPO-MPO Patch Cable, 3M</p>
<p>16F MMF MPO-MPO Patch Cable, 10M</p>
<p>7750 SR 3-ports 10/40/100/400GBASE QSFP-DD MDA-e-XP, 4x100G break-out or 1x400G interfaces and can support a single 1x400G line-rate interface or up to two 1x400G interfaces clear-channel with iFIFO. Accepts three (3) 100G, 2x100G, 4x10, 1x40G and 10x10GBase Optic Module QSFP+/QSFP28/QSFP28-DD/QSFP56-DD.</p>
<p>7250 IXR-ec supporting 6 x 10GE SFP+, 20 x 1GE SFP and 4x1000/100 Mbps RJ45 ports. 1RU system. Dual-redundant -60/-48VDC power inputs. Fan Filter included.</p>
<p>7750 SR-1s + LVDC Power Shelf Bundle, 2.4T 24-port QSFP28 (supported QSFP+/QSFP28) Core Router feature set;</p> <p>Includes the following;</p> <ul style="list-style-type: none"> (1) 3HE14648AA - SYS - SR-1s 2.4T 24pt QSFP28 - CR + LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply <p>7750 SR-1s, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers)</p> <p>This 7750 SR-1s is based off "3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC" licensed to 2.4T throughput and 24-connectors hard license enabled.</p> <p>Software scale upgradeable to ER or HE feature set.</p>
<p>7750 SR-1s + LVDC Power Shelf Bundle, 2.4T 24-port QSFP28 (supported QSFP+/QSFP28) Edge Router feature set.</p> <p>Hardware performance ungradeable from 2.4T to 3.6T intelligent fan in/fan out</p> <p>Includes the following;</p> <ul style="list-style-type: none"> (1) 3HE14648BA - SYS - SR-1s 2.4T 24pt QSFP28 - ER + LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply <p>7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers)</p> <p>This card is based off "3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC" licensed to 2.4T throughput and 24-connectors hard license enabled.</p> <p>Software scale upgradeable to HE feature set.</p> <p>Hardware performance ungradeable from 2.4T to 3.6T intelligent fan in/fan out</p>

7750 SR-1s + LVDC Power Shen Bundle, 2.4T 24-port QSFP28 (supported QSFP+/QSFP28) Edge Router feature set.

Includes the following;

- (1) 3HE14648CA - SYS - SR-1s 2.4T 24pt QSFP28 - HE + LVDC
- (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module
- (2) 3HE11185AA - PSU - LVDC 6kw Power Supply

7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers)

This 7750 SR-1s is based off "3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC" licensed to 2.4T throughput and 24-connectors hard license enabled.

Full High-Scale Edge feature set.

~~Hardware performance upgradeable from 2.4T to 3.6T intelligent fan in/fan out~~

7750 SR-s CPM2 IMPEDANCE PANEL

Impedance Panel, must be installed in every empty CPM slot.

FAN - 7220 IXR-D3 32QSFP28 2SFP+, FtoB

FAN - 7220 IXR-D2 48SFP28 8QSFP28, FtoB

FAN - 7220 IXR-D2 48SFP28 8QSFP28, BtoF

7250 IXR-X3 supporting 36 x 400 GE QSFP-DD ports 1 RU system. Ships with accessory kit. 2 x PSUs required for 1+1 power and 3 x fan trays required per system. Fans & PSUs sold separately.

7250 IXR-X1 supporting 32 x 100 GE QSFP28 + 4 x 400 GE QSFP-DD ports. 1RU system. Ships with accessory kit. 2 x PSUs required for 1+1 power and 3 x fan trays required per system. Fans & PSUs sold separately.

7250 IXR-X fan tray for 1 RU systems, front-to-back airflow.

7250 IXR-Xs supporting 6 x 400 GE QSFP-DD ports + 48 x 50 GE SFP56. 1RU System. Ships with a IXR-X 1RU accessory kit. 2 x PSUs required for 1+1 power and 3 x fan trays required per system. Fans & PSUs sold separately.

7250 IXR-X 1300W AC power supply with front-to-back airflow.

7250 IXR-X 2400W AC power supply with front-to-back airflow configuration

7250 IXR-X 2000W LVDC power supply with front-to-back airflow configuration

Release 21.x Operating Software License with support for base features and scaling.

One (1) Operating Software License is required for each node in the network.

Includes two (2) programmed 4GB Compact Flash cards and two (2) 4GB SD cards with the Operating Software.

SR-OS License for the following Platforms;

7750 SR-a4/a8

7750 SR-1e/2e/3e

7750 SR-1/7/12/12e

7750 SR-1s/2s/7s/14s

~~Additional functionality and scale are available via additional licenses~~

Release 21.x ZTP - Zero Touch Provisioning - Operating Software License with support for base features and scaling.

One (1) Operating Software License is required for each node in the network. Includes two (2) programmed 4GB Compact Flash cards with the Operating Software.

SR-OS License for the following Platforms;

7750 SR-1e

7750 SR-1

7750 SR-1s/2s/7s/14s

~~Additional functionality and scale are available via additional licenses~~

ESA - 7750 SR Extended Services Appliance 100G which provides extended compute functions. AC power. This bundle does not include power cables or QSFP hardware.

ESA - 7750 SR Extended Services Appliance 100G which provides extended compute functions (no Encryption). AC power. This bundle does not include power cables or QSFP hardware.

ESA - 7750 SR Extended Services Appliance 100G which provides extended compute functions. DC Power. This bundle does not include QSFP hardware.

ESA - 7750 SR Extended Services Appliance 100G which provides extended compute functions (no Encryption). DC Power. This bundle does not include QSFP hardware.

7220 IXR SR Linux 20.x System license for 7220 IXR-D1/2/3 and 7220 IXR-H2/3 platforms - one per system requiring base level functionality
7220 IXR SR Linux 21.x System license for 7220 IXR-D1/2/3 and 7220 IXR-H2/3 platforms - one per system requiring base level functionality
7220 IXR SR Linux 20.x Services license for 7220 IXR-D1/2/3 and 7220 IXR-H2/3 platforms - one per system requiring services level functionality (includes system license functionality).
7220 IXR SR Linux 21.x Services license for 7220 IXR-D1/2/3 and 7220 IXR-H2/3 platforms - one per system requiring services level functionality
7220 IXR SR Linux 20.x Advanced license for 7220 IXR-D1/2/3 and 7220 IXR-H2/3 platforms - one per system requiring advanced level functionality (includes services license functionality).
7220 IXR SR Linux 21.x Advanced license for 7220 IXR-D1/2/3 and 7220 IXR-H2/3 platforms - one per system requiring advanced level functionality
7220 IXR-D2/3 SR Linux Enhanced scale add-on license - one per system requiring enhanced scale
7220 IXR-H2/3 SR Linux Enhanced scale add-on license - one per system requiring enhanced scale
1-port 100GBase DR Single Lambda SFP-DD Optics Module, 500m, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
AC Power Cable, IEC-60320-C14 to IEC-60320-C13 AUTO-LOCK, 3.05m (10ft) Long, supported on the 7750 SR-1 and 7210 SAS-S/Sx platforms
FAN - 7220 IXR-D3 32QSFP28 2SFP+, BtoF
ACC - Rail-Kit (fits 19" RM and 21" OR Rack) for 3HE15621AA 7220 IXR-D1 3HE15622AA 7220 IXR-D2 3HE15623AA 7220 IXR-D3 3HE16425AA 7220 IXR-H3
7750 SR-7s DC complete chassis bundle, shipped with all common hardware. Control Redundant. Includes: (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS, (1) 3HE12560AA - CMA - 7750 SR-7s CMA2-7s, (2) 3HE12559AA - CPM - 7750 SR-s CPM2-14s/7s (4) 3HE11315AA - SFM - 7750 SR-7s/14s, (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY , (1) 3HE11180AA - CHAS - 7750 SR-7s/14s LVDC POWER SHELF, (3) 3HE11185AA - PSU - LVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD Note: LVDC Power Shelf includes the filler panels for the PSU. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), LVDC power shelf accessory kit and power lug kit, and optional air filter door kit. Chassis accessory kit included.
7750 SR-7s AC/HVDC complete chassis bundle, shipped with all common hardware. Control redundancy. Includes: (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS, (1) 3HE12560AA - CMA - 7750 SR-7s CMA2-7s, (2) 3HE12559AA - CPM - 7750 SR-s CPM2-14s/7s (4) 3HE11315AA - SFM - 7750 SR-7s/14s, (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY, (1) 3HE11179AA - CHAS - 7750 SR-7s/14s AC/HVDC PWR SHELF (3) 3HE11183AA - PSU - AC/HVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD Note: AC/HVDC Power Shelf includes the filler panels for the PSU. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), AC/HVDC power shelf accessory kit, Power Cords and optional air filter door kit. Chassis accessory kit included.

~~7750 SR-7s DC complete chassis bundle, shipped with all common hardware. No control redundancy. Includes.~~

- (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS,
- (1) 3HE12560AA - CMA - 7750 SR-7s CMA2-7s,
- (1) 3HE12559AA - CPM - 7750 SR-s CPM2-14s/7s,
- (4) 3HE11315AA - SFM - 7750 SR-7s/14s,
- (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY,
- (1) 3HE11180AA - CHAS - 7750 SR-7s/14s LVDC POWER SHELF,
- (3) 3HE11185AA - PSU - LVDC 6kw POWER SUPPLY,
- (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD

Note: LVDC Power Shelf includes the filler panels for the PSU.

Additional items in which will need to be purchased separately are;

Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), LVDC power shelf accessory kit and power lug kit, and optional air filter door kit.

~~Chassis accessory kit included.~~

~~7750 SR-7s AC/HVDC complete chassis bundle, shipped with all common hardware. No control redundancy. Includes.~~

- (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS,
- (1) 3HE12560AA - CMA - 7750 SR-7s CMA2-7s,
- (1) 3HE12559AA - CPM - 7750 SR-s CPM2-14s/7s,
- (4) 3HE11315AA - SFM - 7750 SR-7s/14s,
- (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY,
- (1) 3HE11179AA - CHAS - 7750 SR-7s/14s AC/HVDC PWR SHELF,
- (3) 3HE11183AA - PSU - AC/HVDC 6kw POWER SUPPLY,
- (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD

Note: AC/HVDC Power Shelf includes the filler panels for the PSU.

Additional items in which will need to be purchased separately are;

Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), AC/HVDC power shelf accessory kit, Power Cords and optional air filter door kit.

~~Chassis accessory kit included.~~

~~7750 SR-14s DC complete chassis bundle, shipped with all common hardware. Includes.~~

- (1) 3HE11301AA - CHAS - 7750 SR-14s CHASSIS,
- (1) 3HE12561AA - CMA - 7750 SR-14s CMA2-14s,
- (2) 3HE12559AA - CPM - 7750 SR-s CPM2-14s/7s
- (8) 3HE11315AA - SFM - 7750 SR-7s/14s,
- (8) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY,
- (1) 3HE11180AA - CHAS - 7750 SR-7s/14s LVDC POWER SHELF,
- (5) 3HE11185AA - PSU - LVDC 6kw POWER SUPPLY,
- (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD

Note: LVDC Power Shelf includes the filler panels for the PSU.

Additional items in which will need to be purchased separately are;

Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), LVDC power shelf accessory kit and power lug kit, and optional air filter door kit.

~~Chassis accessory kit included.~~

7750 SR-14s AC/HVDC complete chassis bundle, shipped with all common hardware. Includes:

- (1) 3HE11301AA - CHAS - 7750 SR-14s CHASSIS,
- (1) 3HE12561AA - CMA - 7750 SR-14s CMA2-14s,
- (2) 3HE12559AA - CPM - 7750 SR-s CPM2-14s/7s
- (8) 3HE11315AA - SFM - 7750 SR-7s/14s,
- (8) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY,
- (1) 3HE11179AA - CHAS - 7750 SR-7s/14s AC/HVDC PWR SHELF,
- (5) 3HE11183AA - PSU - AC/HVDC 6kw POWER SUPPLY,
- (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD

Note: AC/HVDC Power Shelf includes the filler panels for the PSU.

Additional items in which will need to be purchased separately are;

Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), AC/HVDC power shelf accessory kit, Power Cords and optional air filter door kit.

Chassis accessory kit included

7220 IXR-D1 with 1 PS AC, FtoB complete chassis bundle with all common hardware including:

- (1) 3HE15621AA - SYS - 7220 IXR-D1 48baseT 4SFP+
- (1) 3HE15625AA - PS - 7220 IXR-D1 48baseT 4SFP+ AC, FtoB
- (3) 3HE15631AA - FAN - 7220 IXR-D1 48baseT 4SFP+, FtoB

7220 IXR-D1 with 1 PS AC, BtoF complete chassis bundle with all common hardware including:

- (1) 3HE15621AA - SYS - 7220 IXR-D1 48baseT 4SFP+
- (1) 3HE15626AA - PS - 7220 IXR-D1 48baseT 4SFP+ AC, BtoF
- (3) 3HE15632AA - FAN - 7220 IXR-D1 48baseT 4SFP+, BtoF

7220 IXR-D1 with 1 PS DC, FtoB complete chassis bundle with all common hardware including:

- (1) 3HE15621AA - SYS - 7220 IXR-D1 48baseT 4SFP+
- (1) 3HE15629AA - PS - 7220 IXR-D1 48baseT 4SFP+ DC, FtoB
- (3) 3HE15631AA - FAN - 7220 IXR-D1 48baseT 4SFP+, FtoB

7220 IXR-D1 with 1 PS DC, BtoF complete chassis bundle with all common hardware including:

- (1) 3HE15621AA - SYS - 7220 IXR-D1 48baseT 4SFP+
- (1) 3HE15630AA - PS - 7220 IXR-D1 48baseT 4SFP+ DC, BtoF
- (3) 3HE15632AA - FAN - 7220 IXR-D1 48baseT 4SFP+, BtoF

7220 IXR-D2 with 1 PS AC, FtoB complete chassis bundle with all common hardware including:

- (1) 3HE15622AA - SYS - 7220 IXR-D2 48SFP28 8QSFP28
- (1) 3HE11886AA - PS - 210 WBX AC (FtoB)
- (4) 3HE15780AA - FAN - 7220 IXR-D2 48SFP28 8QSFP28, FtoB

7220 IXR-D2 with 1 PS AC, BtoF complete chassis bundle with all common hardware including:

- (1) 3HE15622AA - SYS - 7220 IXR-D2 48SFP28 8QSFP28
- (1) 3HE11885AA - PS - 210 WBX AC (BtoF)
- (4) 3HE15781AA - FAN - 7220 IXR-D2 48SFP28 8QSFP28, BtoF

7220 IXR-D2 with 1 PS DC, FtoB complete chassis bundle with all common hardware including:

- (1) 3HE15622AA - SYS - 7220 IXR-D2 48SFP28 8QSFP28
- (1) 3HE10837AA - PS - 210 WBX, 7210 Sx 100G -48VDC (FtoB)
- (4) 3HE15780AA - FAN - 7220 IXR-D2 48SFP28 8QSFP28, FtoB

7220 IXR-D2 with 1 PS DC, BtoF complete chassis bundle with all common hardware including:

- (1) 3HE15622AA - SYS - 7220 IXR-D2 48SFP28 8QSFP28
- (1) 3HE11883AA - PS - 210 WBX -48V DC (BtoF)
- (4) 3HE15781AA - FAN - 7220 IXR-D2 48SFP28 8QSFP28, BtoF

7220 IXR-D3 with 1 PS AC, FtoB complete chassis bundle with all common hardware including:

- (1) 3HE15623AA - SYS - 7220 IXR-D3 32QSFP28 2SFP+
- (1) 3HE11886AA - PS - 210 WBX AC (FtoB)
- (5) 3HE15779AA - FAN - 7220 IXR-D3 32QSFP28 2SFP+, FtoB

7220 IXR-D3 with 1 PS AC, BtoF complete chassis bundle with all common hardware including:

- (1) 3HE15623AA - SYS - 7220 IXR-D3 32QSFP28 2SFP+
- (1) 3HE11885AA - PS - 210 WBX AC (BtoF)
- (5) 3HE16092AA - FAN - 7220 IXR-D3 32QSFP28 2SFP+, BtoF

7220 IXR-D3 with 1 PS DC, FtoB complete chassis bundle with all common hardware including: (1) 3HE15623AA - SYS - 7220 IXR-D3 32QSFP28 2SFP+ (1) 3HE10837AA - PS - 210 WBX, 7210 Sx 100G -48VDC (FtoB) (5) 3HE15779AA - FAN - 7220 IXR-D3 32QSFP28 2SFP+, FtoB
7220 IXR-D3 with 1 PS DC, BtoF complete chassis bundle with all common hardware including: (1) 3HE15623AA - SYS - 7220 IXR-D3 32QSFP28 2SFP+ (1) 3HE11883AA - PS - 210 WBX -48V DC (BtoF) (5) 3HE16092AA - FAN - 7220 IXR-D3 32QSFP28 2SFP+, BtoF
7220 IXR-H2 with 2 PS DC, FtoB complete chassis bundle with all common hardware including: (1) 3HE16421AA - SYS - 7220 IXR-H2 128QSFP28 (2) 3HE16426AA - PS - 7220 IXR-H2 128QSFP28 -48VDC, FtoB (8) 3HE16430AA - FAN - 7220 IXR-H2 128QSFP28, FtoB (1) 3HE16662AA - ACC - Rail-Kit for 7220 IXR-H2
7220 IXR-H2 with 2 PS DC, BtoF complete chassis bundle with all common hardware including: (1) 3HE16421AA - SYS - 7220 IXR-H2 128QSFP28 (2) 3HE16427AA - PS - 7220 IXR-H2 128QSFP28 -48VDC, BtoF (8) 3HE16431AA - FAN - 7220 IXR-H2 128QSFP28, BtoF (1) 3HE16662AA - ACC - Rail-Kit for 7220 IXR-H2
7220 IXR-H2 with 2 PS AC, FtoB complete chassis bundle with all common hardware including: (1) 3HE16421AA - SYS - 7220 IXR-H2 128QSFP28 (2) 3HE16428AA - PS - 7220 IXR-H2 128QSFP28 AC, FtoB (8) 3HE16430AA - FAN - 7220 IXR-H2 128QSFP28, FtoB (1) 3HE16662AA - ACC - Rail-Kit for 7220 IXR-H2
7220 IXR-H2 with 2 PS AC, BtoF complete chassis bundle with all common hardware including: (1) 3HE16421AA - SYS - 7220 IXR-H2 128QSFP28 (2) 3HE16429AA - PS - 7220 IXR-H2 128QSFP28 AC, BtoF (8) 3HE16431AA - FAN - 7220 IXR-H2 128QSFP28, BtoF (1) 3HE16662AA - ACC - Rail-Kit for 7220 IXR-H2
7220 IXR-H3 with 1 PS DC, FtoB complete chassis bundle with all common hardware including: (1) 3HE16425AA - SYS - 7220 IXR-H3 32QSFPDD 2SFP+ (1) 3HE16432AA - PS - 7220 IXR-H3 32QSFPDD -48VDC, FtoB (6) 3HE16436AA - FAN - 7220 IXR-H3 32QSFPDD, FtoB
7220 IXR-H3 with 1 PS DC, BtoF complete chassis bundle with all common hardware including: (1) 3HE16425AA - SYS - 7220 IXR-H3 32QSFPDD 2SFP+ (1) 3HE16433AA - PS - 7220 IXR-H3 32QSFPDD -48VDC, BtoF (6) 3HE16437AA - FAN - 7220 IXR-H3 32QSFPDD, BtoF
7220 IXR-H3 with 1 PS AC, FtoB complete chassis bundle with all common hardware including: (1) 3HE16425AA - SYS - 7220 IXR-H3 32QSFPDD 2SFP+ (1) 3HE16434AA - PS - 7220 IXR-H3 32QSFPDD AC, FtoB (6) 3HE16436AA - FAN - 7220 IXR-H3 32QSFPDD, FtoB
7220 IXR-H3 with 1 PS AC, BtoF complete chassis bundle with all common hardware including: (1) 3HE16425AA - SYS - 7220 IXR-H3 32QSFPDD 2SFP+ (1) 3HE16435AA - PS - 7220 IXR-H3 32QSFPDD AC, BtoF (6) 3HE16437AA - FAN - 7220 IXR-H3 32QSFPDD, BtoF
SYS - 7220 IXR-H2 128QSFP28, base platform. Does not include fans or power supplies
SYS - 7220 IXR-H3 32QSFPDD 2SFP+, base platform. Does not include fans or power supplies
PS - 7220-H2 128QSFP28 -48VDC, FtoB
PS - 7220-H2 128QSFP28 -48VDC, BtoF
PS - 7220-H2 128QSFP28 AC, FtoB
PS - 7220-H2 128QSFP28 AC, BtoF
FAN - 7220-H2 128QSFP28, FtoB
FAN - 7220-H2 128QSFP28, BtoF
PS - 7220-H3 32QSFPDD -48VDC, FtoB
PS - 7220-H3 32QSFPDD -48VDC, BtoF
PS - 7220-H3 32QSFPDD AC, FtoB
PS - 7220-H3 32QSFPDD AC, BtoF
FAN - 7220-H3 32QSFPDD, FtoB

FAN - 7220-H3 32QSFPDD, BtoF
1-port STM-1/E1 CSoP over GE, 155Mb/s, Single Mode Fiber (SMF), 15km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
This RTU is required to enable IPsec bandwidth in increments of 100 Mbps for IMIX traffic distribution on ESA;
One (1) license is required for every increment of 100 Mbps of IPsec encryption capacity on ESA per SR. Multiple RTUs may be applied to a single SR to allow the required bandwidth scale.
This RTU is required to enable IPsec tunnel scale in increments of 1,000 on ESA;
One (1) license is required for every increment of 1,000 IPsec tunnels on ESA per SR. Multiple RTUs may be applied to a single SR to allow the required tunnel scale.
SROS license to be able to use the MS-ISA for Perfect Stream. This license can repair 50 channels total (50x2 ingress video stream). Additional licenses are required for each video application. A Per system license.
The "Video Base license" is required
7250 IXR-X fan tray for 1 RU systems, back-to-front airflow.
7250 IXR-X 2000W LVDC power supply with back-to-front airflow configuration
7250 IXR-s DC power cable 5-pack. 6m (19.7').
Spare SD card (8GB). -40 to 85C, SLC.
1RU kit to convert the 7250 IXR-e airflow from right-to-left to front-to-back. Note that there may be limitation that apply when using this. Refer to install manuals for details.
1-port 25GBASE-Tunable DWDM Small Form-Factor Pluggable+ (SFP28) Optics Module, Single Mode Fiber (SMF), 15km, 40-Channel 1529.55 to 1560.61 nm 100GHz spaced DWDM (ITU 196.0 to 192.1 THz), LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Temperature 0/70C
1-port 100GBase ZR4 (RS-FEC required) QSFP28 Optics Module, 80km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
1-port 400G ZR QSFP-DD pluggable, SMF, 400G Coherent tunable DWDM, OIF-400ZR Amplified, LC Connector, 1528.77 to 1563.86nm, DWDM Grid (ITU 196.1 to 191.7 THz), 0/70C
1-port 400G ZR+ QSFP-DD pluggable, SMF, 400G Coherent tunable DWDM, Open ZR+ Amplified, 1528.77 to 1563.86nm, DWDM Grid (ITU 196.1 to 191.7 THz), 0/70C
SYS-7250 IXR-e 24SFP+ 8SFP28 2QSFP28 AC Bundle Includes: (1) 3HE15386AA SYS - 7250 IXR-e 24SFP+ 8SFP28 2QSFP28 GNSS (2) 3HE14784AA PS - 7250 IXR-e AC Software image and AC Power Cables Not included
SYS-7250 IXR-e 24SFP+ 8SFP28 2QSFP28 DC Bundle Includes: (1) 3HE15386AA SYS - 7250 IXR-e 24SFP+ 8SFP28 2QSFP28 GNSS (2) 3HE14785AA PS - 7250 IXR-e DC Software image Not included
SYS-7250 IXR-e 14SFP+ 4T AC Bundle Includes (1) 3HE15387AA SYS - 7250 IXR-e 14 SFP+ + 4TX GNSS (2) 3HE14784AA PS - 7250 IXR-e AC Software image and AC Power Cables Not included
SYS-7250 IXR-e 14SFP+ 4T AC Bundle Includes (1) 3HE15387AA SYS - 7250 IXR-e 14 SFP+ + 4TX GNSS (2) 3HE14785AA PS - IXR-e DC Software image Not included
ACC - Rail-Kit for 7220 IXR-H2
7250 IXR-X 1800W AC power supply with back-to-front airflow configuration
1-port 100GBASE-BX20-U (Up-Stream) Bi-Directional (BiDi) Quad Small Form-Factor Pluggable (QSFP28) Optics Module, Single Mode Fiber (SMF), 20km, TX: 1273.55, 1277.89, 1282.26, 1286.66 nm, RX: 1295.56, 1300.05, 1304.58, 1309.14 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Temperature -20/85C
1-port 100GBASE-BX20-D (Down-Stream) Bi-Directional (BiDi) Quad Small Form-Factor Pluggable (QSFP28) Optics Module, Single Mode Fiber (SMF), 20km, TX:1295.56, 1300.05, 1304.58, 1309.14 nm, RX:1273.55, 1277.89, 1282.26, 1286.66 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Temperature -20/85C
7250 IEEE 1588 PTP Freq & Time/Phase Right To Use license. Applicable to 1588 Slave or Boundary or Grandmaster Clocks. OAM performance can be improved with PTP time accuracy
Notes: One (1) Operating Software License is required for each IXR-6/10/R6/s/Xs/X1 in the network.
7250 IEEE 1588 PTP Freq & Time/Phase Right To Use license. Applicable to 1588 Slave or Boundary or Grandmaster Clocks. OAM performance can be improved with PTP time accuracy
Notes: One (1) Operating Software License is required for each IXR-R4, IXR-e (2p 100G, 8p 25G, 24p 10G including GNSS variants) in the network.

7250 IEEE 1588 PTP Freq & Time/Phase Right To Use license. Applicable to 1588 Slave or Boundary or Grandmaster Clocks. OAM performance can be improved with PTP time accuracy Notes: One (1) Operating Software License is required for each IXR-e (14p 10G, 4p Tx including GNSS variants), IXR-ec, in the network.
SROS 7x50 SR/ESS/XRS 1GE Port License - One of these RTUs is required for each 1GE or 100M port enabled on a 7750 SR/7450 ESS/7950 XRS
SROS 7x50 SR/ESS/XRS 10GE Port License - One of these RTUs is required for each 10GE port enabled on a 7750 SR/7450 ESS/7950 XRS; when using a connector that breaks out to multiple ports, a license is required for each port enabled on the connector
SROS 7x50 SR/ESS/XRS 25GE Port License - One of these RTUs is required for each 25GE port enabled on a 7750 SR/7450 ESS/7950 XRS; when using a connector that breaks out to multiple ports, a license is required for each port enabled on the connector
SROS 7x50 SR/ESS/XRS 40GE Port License - One of these RTUs is required for each 40GE port enabled on a 7750 SR/7450 ESS/7950 XRS
SROS 7x50 SR/ESS/XRS 100GE Port License - One of these RTUs is required for each 100GE port enabled on a 7750 SR/7450 ESS/7950 XRS; when using a connector that breaks out to multiple ports, a license is required for each port enabled on the connector
SROS 7x50 SR/ESS/XRS 400GE Port License - One of these RTUs is required for each 400GE port enabled on a 7750 SR/7450 ESS/7950 XRS
SROS 7250 IXR 1GE Port License - One of these RTUs is required for each 1GE or 100M port enabled on a 7250 IXR.
SROS 7250 IXR 10GE Port License - One of these RTUs is required for each 10GE port enabled on a 7250 IXR; when using a connector that breaks out to multiple ports, a license is required for each port enabled on the connector.
SROS 7250 IXR 25GE Port License - One of these RTUs is required for each 25GE port enabled on a 7250 IXR; when using a connector that breaks out to multiple ports, a license is required for each port enabled on the connector.
SROS 7250 IXR 40GE Port License - One of these RTUs is required for each 40GE port enabled on a 7250 IXR.
SROS 7250 IXR 100GE Port License - One of these RTUs is required for each 100GE port enabled on a 7250 IXR; when using a connector that breaks out to multiple ports, a license is required for each port enabled on the connector.
SROS 7250 IXR 400GE Port License - One of these RTUs is required for each 400GE port enabled on a 7250 IXR.
Filter door kit for 7250 IXR-10 chassis (3HE11770AA). Include one fan filter. Replacement filters sold separately.
6-pack of air filters for 7250 IXR-10 filter door.
Filter door kit for 7250 IXR-6 chassis (3HE11760AA). Include one fan filter. Replacement filters sold separately.
6-pack of air filters for 7250 IXR-6 filter door.
32GB USB flash drive. I-TEMP -40 to 85C and SLC.
7250 IXR-X1 F2B chassis bundle with AC PSUs, includes: (1) 3HE15785AA - 7250 IXR-X1 32P QSFP28+4P QSFP-DD (3) 3HE15787AA - 7250 IXR-X 1RU Fan Tray (F2B) (2) 3HE15791AA - 7250 IXR-X 1300W AC (F2B)
7250 IXR-X1 B2F chassis bundle with AC PSUs, includes: (1) 3HE15785AA - 7250 IXR-X1 32P QSFP28+4P QSFP-DD (3) 3HE16507AA - 7250 IXR-X 1RU Fan Tray (B2F) (2) 3HE16686AA - 7250 IXR-X 1800W AC (B2F)
7250 IXR-Xs F2B chassis bundle with AC PSUs, includes: (1) 3HE15789AA - 7250 IXR-Xs 6P QSFP-DD+48P SFP56 (3) 3HE15787AA - 7250 IXR-X 1RU Fan Tray (F2B) (2) 3HE15791AA - 7250 IXR-X 1300W AC (F2B)
7250 IXR-Xs B2F chassis bundle with AC PSUs, includes: (1) 3HE15789AA - 7250 IXR-Xs 6P QSFP-DD+48P SFP56 (3) 3HE16507AA - 7250 IXR-X 1RU Fan Tray (B2F) (2) 3HE16686AA - 7250 IXR-X 1800W AC (B2F)
7250 IXR-X 2400W DC power supply with front-to-back airflow configuration
AC Power Cable, IEC-60320-C20 to IEC-60320-C19 AUTO-LOCK, 3.66m (12ft), supported on 7250 IXR-X3
AC Power Cable, LOCKING NEMA L6-20P to IEC-60320-C19 AUTO-LOCK, 3.66m (12ft), supported on 7250 IXR-X3
AC Power Cable, CEE 7/7 EURO SCHUKO to IEC-60320-C19 AUTO-LOCK, 2.5m (8.2ft), supported on 7250 IXR-X3
7250 IXR-X1 F2B chassis bundle with DC PSUs, includes: (1) 3HE15785AA - 7250 IXR-X1 32P QSFP28+4P QSFP-DD (3) 3HE15787AA - 7250 IXR-X 1RU Fan Tray (F2B) (2) 3HE15794AA - 7250 IXR-X 2000W LVDC (F2B)

<p>7250 IXR-X1 B2F chassis bundle with DC PSUs, includes:</p> <p>(1) 3HE15785AA - 7250 IXR-X1 32P QSFP28+4P QSFP-DD</p> <p>(3) 3HE16507AA - 7250 IXR-X 1RU Fan Tray (B2F)</p> <p>(2) 3HE16509AA - 7250 IXR-X 2000W LVDC (B2F)</p>
<p>7250 IXR-Xs F2B chassis bundle with DC PSUs, includes:</p> <p>(1) 3HE15789AA - 7250 IXR-Xs 6P QSFP-DD+48P SFP56</p> <p>(3) 3HE15787AA - 7250 IXR-X 1RU Fan Tray (F2B)</p> <p>(2) 3HE15794AA - 7250 IXR-X 2000W LVDC (F2B)</p>
<p>7250 IXR-Xs B2F chassis bundle with DC PSUs, includes:</p> <p>(1) 3HE15789AA - 7250 IXR-Xs 6P QSFP-DD+48P SFP56</p> <p>(3) 3HE16507AA - 7250 IXR-X 1RU Fan Tray (B2F)</p> <p>(2) 3HE16509AA - 7250 IXR-X 2000W LVDC (B2F)</p>
<p>7250 IXR-X3 F2B chassis bundle with AC PSUs, includes:</p> <p>(1) 3HE15784AA - SYS - 7250 IXR-X3 36P 400G QSFP-DD</p> <p>(3) 3HE15787AA - 7250 IXR-X 1RU Fan Tray (F2B)</p> <p>(2) 3HE15793AA - 7250 IXR-X 2400W AC (F2B)</p>
<p>7250 IXR-X3 F2B chassis bundle with DC PSUs, includes:</p> <p>(1) 3HE15784AA - SYS - 7250 IXR-X3 36P 400G QSFP-DD</p> <p>(3) 3HE15787AA - 7250 IXR-X 1RU Fan Tray (F2B)</p> <p>(2) 3HE17441AA - 7250 IXR-X 2400W DC (F2B)</p>
<p>ESA - 7750 SR Extended Services Appliance 400G which provides extended compute functions. AC power. The hardware includes the use of up to 100Gbps of port capacity, but does not include power cables or QSFP hardware.</p>
<p>ESA - 7750 SR Extended Services Appliance 400G which provides extended compute functions (no Encryption). AC power. The hardware includes the use of up to 100Gbps of port capacity, but does not include power cables or QSFP hardware.</p>
<p>ESA - 7750 SR Extended Services Appliance 400G which provides extended compute functions. DC Power. The hardware includes the use of up to 100Gbps of port capacity, but does not include QSFP hardware.</p>
<p>ESA - 7750 SR Extended Services Appliance 400G which provides extended compute functions (no Encryption). DC Power. The hardware includes the use of up to 100Gbps of port capacity, but does not include QSFP hardware.</p>
<p>RTU - ESA additional 100G capacity. Right to Use (RTU) required for use of each additional 100Gbps port capacity on an ESA 400G appliance, in addition to the first 100Gbps capacity included with the hardware.</p>
<p>ACC - 7250 IXR-ec Fan Filter (5 pack)</p>
<p>Deepfield Base Platform. Right to Use License. Perpetual License. Required for all Deepfield deployments. Provides OS, Base code, Database, UI, API.</p>
<p>Deepfield Base Platform. Right to Use License. 1 Year Term License. Required for all Deepfield deployments. Provides OS, Base code, Database, UI, API.</p>
<p>Deepfield Cloud Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Required for all Deepfield Deployments. Dependencies; Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.</p>
<p>Deepfield Cloud Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Required for all Deepfield Deployments. Dependencies; Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.</p>
<p>Deepfield Cloud Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Required for all Deepfield Deployments. Dependencies; Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.</p>
<p>Deepfield Cloud Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Required for all Deepfield Deployments. Dependencies; Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.</p>
<p>Deepfield Cloud Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Required for all Deepfield Deployments. Dependencies; Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.</p>

<p>Deepfield Cloud Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Required for all Deepfield Deployments. Dependencies; Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.</p>
<p>Deepfield Cloud Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Required for all Deepfield Deployments. Dependencies; Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.</p>
<p>Deepfield Cloud Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Required for all Deepfield Deployments. Dependencies; Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.</p>
<p>Deepfield Cloud Genome. 1 year data feed subscription. Required for all Deepfield Deployments. Provides mapping for CDN, Sites, Category.</p>
<p>Deepfield Secure Genome. 1 year data feed subscription. Required for all Deepfield Defender Deployments. Provides mapping for DDoS attack vectors and auto-mitigation rules.</p>
<p>Deepfield Defender Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.</p>
<p>Deepfield Defender Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.</p>
<p>Deepfield Defender Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.</p>
<p>Deepfield Defender Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.</p>
<p>Deepfield Defender Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.</p>
<p>Deepfield Defender Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.</p>
<p>Deepfield Defender Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.</p>
<p>Deepfield Defender Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.</p>
<p>Deepfield Defender Automated Protection. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Provides automated DDoS mitigation using 3rd party scrubber diversion and router policies.</p>
<p>Deepfield Defender Automated Protection. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Provides automated DDoS mitigation using 3rd party scrubber diversion and router policies.</p>

Deepfield Operational Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.
Deepfield Operational Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.
Deepfield Operational Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.
Deepfield Operational Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.
Deepfield Operational Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.
Deepfield Operational Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.
Deepfield Operational Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Dependencies; Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.
7250 IXR-6 SR Linux - Services 20.x – one per system requiring services level functionality (includes system license functionality). Supplied with media.
7250 IXR-6 SR Linux - Services 21.x – one per system requiring services level functionality (includes system license functionality). Supplied with media.
7250 IXR-10 SR Linux - Services 20.x – one per system requiring services level functionality (includes system license functionality). Supplied with media.
7250 IXR-10 SR Linux - Services 21.x – one per system requiring services level functionality (includes system license functionality). Supplied with media.
7250 IXR-6 SR Linux - Advanced 20.x – one per system requiring advanced level functionality (includes services and system license functionality). Supplied with media.
7250 IXR-6 SR Linux - Advanced 21.x – one per system requiring advanced level functionality (includes services and system license functionality). Supplied with media.
7250 IXR-10 SR Linux - Advanced 20.x – one per system requiring advanced level functionality (includes services and system license functionality). Supplied with media.
7250 IXR-10 SR Linux - Advanced 21.x – one per system requiring advanced level functionality (includes services and system license functionality). Supplied with media.
7250 IXR-6 SR Linux Enhanced Scale – one per system
7250 IXR-10 SR Linux Enhanced Scale – one per system
RTU - 7210 SAS-Dxp Timing license. This is a per chassis license. It is a one-time license to use the PTP and syncE capabilities on the node. It is required to use the syncE and PTP capabilities on the 7210 SAS-Dxp 2SFP+ 4F 6T ETR platform. It allows for use of the following PTP profile(s) - ITU-T G.8275.1.
SROS NAT license per 10G increment on ESA-VM or ISA.
SROS NAT required to enable stateless geo redundancy for NAT function. This license is per pair of redundant SR nodes.
SROS NAT required to enable state-full geo redundancy for NAT function. One license is required for each pair of synchronized ESA-VMs or ISAs.

MPL (GLP) \$USD	DISCOUNT	UNIT PRICE
\$ 100.00	35%	\$ 65.00
\$ 345.00	35%	\$ 224.25
\$ 995.00	35%	\$ 646.75
\$ 4,995.00	35%	\$ 3,246.75
\$ 1,200.00	35%	\$ 780.00
\$ 1,200.00	35%	\$ 780.00
\$ 1,600.00	35%	\$ 1,040.00
\$ 330.00	35%	\$ 214.50
\$ 90.00	35%	\$ 58.50
\$ 950.00	35%	\$ 617.50
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
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\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 1,995.00	35%	\$ 1,296.75
\$ 1,400.00	35%	\$ 910.00
\$ 1,400.00	35%	\$ 910.00
\$ 50.00	35%	\$ 32.50
\$ 100.00	35%	\$ 65.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 950.00	35%	\$ 617.50
\$ 125.00	35%	\$ 81.25
\$ 175.00	35%	\$ 113.75
\$ 125.00	35%	\$ 81.25

\$ 125.00	35%	\$ 81.25
\$ 125.00	35%	\$ 81.25
\$ 6,000.00	35%	\$ 3,900.00
\$ 6,750.00	35%	\$ 4,387.50
\$ 3,500.00	35%	\$ 2,275.00
\$ 4,050.00	35%	\$ 2,632.50
\$ 4,200.00	35%	\$ 2,730.00
\$ 4,750.00	35%	\$ 3,087.50
\$ 5,000.00	35%	\$ 3,250.00
\$ 5,600.00	35%	\$ 3,640.00
\$ 7,000.00	35%	\$ 4,550.00
\$ 6,200.00	35%	\$ 4,030.00
\$ 7,000.00	35%	\$ 4,550.00
\$ 700.00	35%	\$ 455.00
\$ 850.00	35%	\$ 552.50
\$ 850.00	35%	\$ 552.50
\$ 850.00	35%	\$ 552.50
\$ 750.00	35%	\$ 487.50

\$ 750.00	35%	\$ 487.50
\$ 750.00	35%	\$ 487.50
\$ 2,500.00	35%	\$ 1,625.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 150.00	35%	\$ 97.50
\$ 75.00	35%	\$ 48.75
\$ 125.00	35%	\$ 81.25
\$ 400.00	35%	\$ 260.00
\$ 10,500.00	35%	\$ 6,825.00
\$ 18,000.00	35%	\$ 11,700.00
\$ 20,200.00	35%	\$ 13,130.00
\$ 4,200.00	35%	\$ 2,730.00
\$ 4,750.00	35%	\$ 3,087.50
\$ 21,000.00	35%	\$ 13,650.00
\$ 23,550.00	35%	\$ 15,307.50
\$ 9,300.00	35%	\$ 6,045.00
\$ 10,800.00	35%	\$ 7,020.00
\$ 200.00	35%	\$ 130.00
\$ 1,500.00	35%	\$ 975.00
\$ 150.00	35%	\$ 97.50

\$ 1,500.00	35%	\$ 975.00
\$ 1,500.00	35%	\$ 975.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 1,500.00	35%	\$ 975.00
\$ 1,500.00	35%	\$ 975.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 150.00	35%	\$ 97.50
\$ 750.00	35%	\$ 487.50
\$ 2,500.00	35%	\$ 1,625.00
\$ 125.00	35%	\$ 81.25
\$ 21,850.00	35%	\$ 14,202.50
\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 399.00	35%	\$ 259.35
\$ 480.00	35%	\$ 312.00
\$ 140.00	35%	\$ 91.00
\$ 1,500.00	35%	\$ 975.00
\$ 1,500.00	35%	\$ 975.00
\$ 1,500.00	35%	\$ 975.00

\$ 3,000.00	35%	\$ 1,950.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 125.00	35%	\$ 81.25
\$ 3,000.00	35%	\$ 1,950.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 125.00	35%	\$ 81.25
\$ 125.00	35%	\$ 81.25
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\$ 2,995.00	35%	\$ 1,946.75
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00

\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 750.00	35%	\$ 487.50
\$ 600.00	35%	\$ 390.00
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\$ 3,995.00	35%	\$ 2,596.75
\$ 3,995.00	35%	\$ 2,596.75
\$ 3,995.00	35%	\$ 2,596.75
\$ 3,995.00	35%	\$ 2,596.75
\$ 13,200.00	35%	\$ 8,580.00
\$ 14,800.00	35%	\$ 9,620.00
\$ 2,900.00	35%	\$ 1,885.00
\$ 1,000.00	35%	\$ 650.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 12,000.00	35%	\$ 7,800.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 6,250.00	35%	\$ 4,062.50
\$ 6,500.00	35%	\$ 4,225.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 2,250.00	35%	\$ 1,462.50
\$ 1,200.00	35%	\$ 780.00
\$ 4,800.00	35%	\$ 3,120.00
\$ 1,500.00	35%	\$ 975.00

\$ 1,500.00	35%	\$ 975.00
\$ 1,500.00	35%	\$ 975.00
\$ 620.00	35%	\$ 403.00
\$ 775.00	35%	\$ 503.75
\$ 975.00	35%	\$ 633.75
\$ 9,500.00	35%	\$ 6,175.00
\$ 10,650.00	35%	\$ 6,922.50
\$ 3,995.00	35%	\$ 2,596.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 260.00	35%	\$ 169.00
\$ 1,550.00	35%	\$ 1,007.50
\$ 5,500.00	35%	\$ 3,575.00
\$ 6,200.00	35%	\$ 4,030.00
\$ 450.00	35%	\$ 292.50
\$ 7,000.00	35%	\$ 4,550.00
\$ 6,200.00	35%	\$ 4,030.00
\$ 7,750.00	35%	\$ 5,037.50
\$ 7,200.00	35%	\$ 4,680.00
\$ 8,800.00	35%	\$ 5,720.00
\$ 37,500.00	35%	\$ 24,375.00
\$ 850.00	35%	\$ 552.50
\$ 900.00	35%	\$ 585.00
\$ 120.00	35%	\$ 78.00
\$ 250.00	35%	\$ 162.50
\$ 25,000.00	35%	\$ 16,250.00
\$ 175.00	35%	\$ 113.75
\$ 10,000.00	35%	\$ 6,500.00

\$ 10,000.00	35%	\$ 6,500.00
\$ 1,200.00	35%	\$ 780.00
\$ 1,200.00	35%	\$ 780.00
\$ 1,200.00	35%	\$ 780.00
\$ 5,200.00	35%	\$ 3,380.00
\$ 5,850.00	35%	\$ 3,802.50
\$ 10,200.00	35%	\$ 6,630.00
\$ 11,450.00	35%	\$ 7,442.50
\$ 2,500.00	35%	\$ 1,625.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 1,100.00	35%	\$ 715.00
\$ 1,800.00	35%	\$ 1,170.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 5,600.00	35%	\$ 3,640.00
\$ 9,500.00	35%	\$ 6,175.00
\$ 13,200.00	35%	\$ 8,580.00
\$ 12,000.00	35%	\$ 7,800.00
\$ 12,000.00	35%	\$ 7,800.00
\$ 13,500.00	35%	\$ 8,775.00
\$ 13,450.00	35%	\$ 8,742.50
\$ 3,700.00	35%	\$ 2,405.00
\$ 5,300.00	35%	\$ 3,445.00
\$ 450.00	35%	\$ 292.50
\$ 750.00	35%	\$ 487.50

\$ 2,500.00	35%	\$ 1,625.00
\$ 3,050.00	35%	\$ 1,982.50
\$ 1,300.00	35%	\$ 845.00
\$ 11,995.00	35%	\$ 7,796.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 90,000.00	35%	\$ 58,500.00
\$ 4,350.00	35%	\$ 2,827.50
\$ 5,000.00	35%	\$ 3,250.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 16,000.00	35%	\$ 10,400.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 75,000.00	35%	\$ 48,750.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 6,750.00	35%	\$ 4,387.50
\$ 7,600.00	35%	\$ 4,940.00
\$ 800.00	35%	\$ 520.00
\$ 1,700.00	35%	\$ 1,105.00
\$ 800.00	35%	\$ 520.00

\$ 50,000.00	35%	\$ 32,500.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 1,700.00	35%	\$ 1,105.00
\$ 250.00	35%	\$ 162.50
\$ 250.00	35%	\$ 162.50
\$ 85,000.00	35%	\$ 55,250.00
\$ 1,500.00	35%	\$ 975.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 550.00	35%	\$ 357.50
\$ 20,000.00	35%	\$ 13,000.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 40,000.00	35%	\$ 26,000.00

\$ 20,000.00	35%	\$ 13,000.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 75,000.00	35%	\$ 48,750.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 10,500.00	35%	\$ 6,825.00
\$ 14,500.00	35%	\$ 9,425.00
\$ 75,000.00	35%	\$ 48,750.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 1,080.00	35%	\$ 702.00
\$ 3,060.00	35%	\$ 1,989.00
\$ 5,400.00	35%	\$ 3,510.00
\$ 1,200.00	35%	\$ 780.00
\$ 1,200.00	35%	\$ 780.00
\$ 9,700.00	35%	\$ 6,305.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 150.00	35%	\$ 97.50
\$ 450.00	35%	\$ 292.50
\$ 5,000.00	35%	\$ 3,250.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 500.00	35%	\$ 325.00
\$ 175.00	35%	\$ 113.75
\$ 400.00	35%	\$ 260.00
\$ 350.00	35%	\$ 227.50

\$ 700.00	35%	\$ 455.00
\$ 300.00	35%	\$ 195.00
\$ 300.00	35%	\$ 195.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 29,000.00	35%	\$ 18,850.00
\$ 9,500.00	35%	\$ 6,175.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 14,700.00	35%	\$ 9,555.00
\$ 16,000.00	35%	\$ 10,400.00
\$ 250.00	35%	\$ 162.50
\$ 250.00	35%	\$ 162.50
\$ 6,000.00	35%	\$ 3,900.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 750.00	35%	\$ 487.50
\$ 450.00	35%	\$ 292.50
\$ 500.00	35%	\$ 325.00
\$ 250.00	35%	\$ 162.50
\$ 250.00	35%	\$ 162.50
\$ 250.00	35%	\$ 162.50
\$ 6,225.00	35%	\$ 4,046.25
\$ 8,075.00	35%	\$ 5,248.75
\$ 5,000.00	35%	\$ 3,250.00
\$ 750.00	35%	\$ 487.50
\$ 675.00	35%	\$ 438.75
\$ 9,375.00	35%	\$ 6,093.75
\$ 90.00	35%	\$ 58.50
\$ 120.00	35%	\$ 78.00
\$ 90.00	35%	\$ 58.50
\$ 1,500.00	35%	\$ 975.00
\$ 300,000.00	35%	\$ 195,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 1,500.00	35%	\$ 975.00
\$ 3,250.00	35%	\$ 2,112.50
\$ 17,500.00	35%	\$ 11,375.00

\$ 35,000.00	35%	\$ 22,750.00
\$ 2,700.00	35%	\$ 1,755.00
\$ 2,700.00	35%	\$ 1,755.00
\$ 4,500.00	35%	\$ 2,925.00
\$ 4,500.00	35%	\$ 2,925.00
\$ 7,050.00	35%	\$ 4,582.50
\$ 6,475.00	35%	\$ 4,208.75
\$ 6,750.00	35%	\$ 4,387.50
\$ 8,600.00	35%	\$ 5,590.00
\$ 8,700.00	35%	\$ 5,655.00
\$ 8,875.00	35%	\$ 5,768.75
\$ 6,740.00	35%	\$ 4,381.00
\$ 6,740.00	35%	\$ 4,381.00
\$ 6,740.00	35%	\$ 4,381.00
\$ 8,700.00	35%	\$ 5,655.00

\$ 8,720.00	35%	\$ 5,668.00
\$ 8,720.00	35%	\$ 5,668.00
\$ 110,000.00	35%	\$ 71,500.00
\$ 85,000.00	35%	\$ 55,250.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 55,000.00	35%	\$ 35,750.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 55,000.00	35%	\$ 35,750.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 24,550.00	35%	\$ 15,957.50
\$ 25,700.00	35%	\$ 16,705.00
\$ 1,800.00	35%	\$ 1,170.00
\$ 2,200.00	35%	\$ 1,430.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 120.00	35%	\$ 78.00
\$ 1,500.00	35%	\$ 975.00
\$ 2,250.00	35%	\$ 1,462.50
\$ 3,000.00	35%	\$ 1,950.00
\$ 1,500.00	35%	\$ 975.00
\$ 2,250.00	35%	\$ 1,462.50
\$ 3,000.00	35%	\$ 1,950.00
\$ 1,500.00	35%	\$ 975.00
\$ 2,250.00	35%	\$ 1,462.50
\$ 3,000.00	35%	\$ 1,950.00
\$ 1,500.00	35%	\$ 975.00
\$ 2,250.00	35%	\$ 1,462.50
\$ 3,000.00	35%	\$ 1,950.00
\$ 2,300.00	35%	\$ 1,495.00
\$ 3,430.00	35%	\$ 2,229.50
\$ 4,500.00	35%	\$ 2,925.00

\$ 3,000.00	35%	\$ 1,950.00
\$ 4,500.00	35%	\$ 2,925.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 2,300.00	35%	\$ 1,495.00
\$ 3,430.00	35%	\$ 2,229.50
\$ 4,500.00	35%	\$ 2,925.00
\$ 1,500.00	35%	\$ 975.00
\$ 2,250.00	35%	\$ 1,462.50
\$ 3,000.00	35%	\$ 1,950.00
\$ 400.00	35%	\$ 260.00
\$ 100.00	35%	\$ 65.00
\$ 16,500.00	35%	\$ 10,725.00
\$ 3,500.00	35%	\$ 2,275.00

\$ 3,500.00	35%	\$ 2,275.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 1,500.00	35%	\$ 975.00
\$ 1,500.00	35%	\$ 975.00
\$ 160,000.00	35%	\$ 104,000.00
\$ 1,500.00	35%	\$ 975.00
\$ 12,000.00	35%	\$ 7,800.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 70,000.00	35%	\$ 45,500.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 750.00	35%	\$ 487.50
\$ 360.00	35%	\$ 234.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 4,750.00	35%	\$ 3,087.50
\$ 4,250.00	35%	\$ 2,762.50
\$ 4,950.00	35%	\$ 3,217.50
\$ 4,250.00	35%	\$ 2,762.50
\$ 4,150.00	35%	\$ 2,697.50
\$ 250.00	35%	\$ 162.50
\$ 3,300.00	35%	\$ 2,145.00
\$ 250,000.00	35%	\$ 162,500.00

\$ 18,000.00	35%	\$ 11,700.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 16,000.00	35%	\$ 10,400.00
\$ 19,000.00	35%	\$ 12,350.00
\$ 1,700.00	35%	\$ 1,105.00
\$ 2,300.00	35%	\$ 1,495.00
\$ 2,700.00	35%	\$ 1,755.00
\$ 3,200.00	35%	\$ 2,080.00
\$ 9,300.00	35%	\$ 6,045.00
\$ 9,750.00	35%	\$ 6,337.50
\$ 66,000.00	35%	\$ 42,900.00
\$ 39,000.00	35%	\$ 25,350.00
\$ 23,000.00	35%	\$ 14,950.00
\$ 29,000.00	35%	\$ 18,850.00
\$ 17,200.00	35%	\$ 11,180.00
\$ 13,600.00	35%	\$ 8,840.00
\$ 17,600.00	35%	\$ 11,440.00
\$ 16,000.00	35%	\$ 10,400.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 35,500.00	35%	\$ 23,075.00
\$ 35,500.00	35%	\$ 23,075.00
\$ 36,000.00	35%	\$ 23,400.00

\$ 44,000.00	35%	\$ 28,600.00
\$ 44,500.00	35%	\$ 28,925.00
\$ 44,500.00	35%	\$ 28,925.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 400.00	35%	\$ 260.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 8,000.00	35%	\$ 5,200.00

\$ 8,000.00	35%	\$ 5,200.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 450.00	35%	\$ 292.50
\$ 20,000.00	35%	\$ 13,000.00
\$ 104,000.00	35%	\$ 67,600.00
\$ 54,500.00	35%	\$ 35,425.00
\$ 104,000.00	35%	\$ 67,600.00
\$ 54,500.00	35%	\$ 35,425.00
\$ 185,000.00	35%	\$ 120,250.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 75,000.00	35%	\$ 48,750.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 80,000.00	35%	\$ 52,000.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 85,000.00	35%	\$ 55,250.00
\$ 170,000.00	35%	\$ 110,500.00
\$ 350,000.00	35%	\$ 227,500.00
\$ 700,000.00	35%	\$ 455,000.00

\$ 1,500.00	35%	\$ 975.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 1,500.00	35%	\$ 975.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 3,350.00	35%	\$ 2,177.50
\$ 2,995.00	35%	\$ 1,946.75
\$ 3,995.00	35%	\$ 2,596.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 5,000.00	35%	\$ 3,250.00
\$ 150.00	35%	\$ 97.50
\$ 400.00	35%	\$ 260.00
\$ 900.00	35%	\$ 585.00
\$ 800.00	35%	\$ 520.00
\$ 900.00	35%	\$ 585.00
\$ 800.00	35%	\$ 520.00
\$ 1,200.00	35%	\$ 780.00
\$ 1,350.00	35%	\$ 877.50
\$ 9,500.00	35%	\$ 6,175.00
\$ 9,500.00	35%	\$ 6,175.00
\$ 1,400.00	35%	\$ 910.00
\$ 1,900.00	35%	\$ 1,235.00
\$ 16,350.00	35%	\$ 10,627.50
\$ 3,650.00	35%	\$ 2,372.50
\$ 1,575.00	35%	\$ 1,023.75
\$ 14,550.00	35%	\$ 9,457.50
\$ 1,250.00	35%	\$ 812.50
\$ 1,800.00	35%	\$ 1,170.00
\$ 400.00	35%	\$ 260.00

\$ 900.00	35%	\$ 585.00
\$ 900.00	35%	\$ 585.00
\$ 2,700.00	35%	\$ 1,755.00
\$ 3,200.00	35%	\$ 2,080.00
\$ 18,000.00	35%	\$ 11,700.00
\$ 29,000.00	35%	\$ 18,850.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 400.00	35%	\$ 260.00
\$ 400.00	35%	\$ 260.00
\$ 400.00	35%	\$ 260.00
\$ 6,950.00	35%	\$ 4,517.50
\$ 2,780.00	35%	\$ 1,807.00
\$ 422,500.00	35%	\$ 274,625.00
\$ 125,000.00	35%	\$ 81,250.00
\$ 250,000.00	35%	\$ 162,500.00
\$ 145,000.00	35%	\$ 94,250.00
\$ 810.00	35%	\$ 526.50
\$ 35.00	35%	\$ 22.75
\$ 2,000.00	35%	\$ 1,300.00

\$ 2,000.00	35%	\$ 1,300.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 150.00	35%	\$ 97.50
\$ 375.00	35%	\$ 243.75
\$ 180.00	35%	\$ 117.00
\$ 185,000.00	35%	\$ 120,250.00
\$ 300.00	35%	\$ 195.00
\$ 266.00	35%	\$ 172.90
\$ 175.00	35%	\$ 113.75
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 950.00	35%	\$ 617.50
\$ 950.00	35%	\$ 617.50
\$ 950.00	35%	\$ 617.50
\$ 2,500.00	35%	\$ 1,625.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 1,000,000.00	35%	\$ 650,000.00
\$ 1,400,000.00	35%	\$ 910,000.00
\$ 1,750,000.00	35%	\$ 1,137,500.00
\$ 2,100,000.00	35%	\$ 1,365,000.00

\$ 375.00	35%	\$ 243.75
\$ 350.00	35%	\$ 227.50
\$ 360.00	35%	\$ 234.00
\$ 275.00	35%	\$ 178.75
\$ 275.00	35%	\$ 178.75
\$ 11,000.00	35%	\$ 7,150.00
\$ 16,000.00	35%	\$ 10,400.00
\$ 17,000.00	35%	\$ 11,050.00
\$ 680.00	35%	\$ 442.00
\$ 1,750.00	35%	\$ 1,137.50
\$ 10,800.00	35%	\$ 7,020.00
\$ 12,800.00	35%	\$ 8,320.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 225.00	35%	\$ 146.25
\$ 225.00	35%	\$ 146.25
\$ 400.00	35%	\$ 260.00
\$ 700.00	35%	\$ 455.00
\$ 800.00	35%	\$ 520.00
\$ 900.00	35%	\$ 585.00
\$ 1,900.00	35%	\$ 1,235.00
\$ 2,100.00	35%	\$ 1,365.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 31,000.00	35%	\$ 20,150.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 37,000.00	35%	\$ 24,050.00
\$ 7,200.00	35%	\$ 4,680.00
\$ 7,900.00	35%	\$ 5,135.00
\$ 8,900.00	35%	\$ 5,785.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 45,000.00	35%	\$ 29,250.00

\$ 198,000.00	35%	\$ 128,700.00
\$ 117,000.00	35%	\$ 76,050.00
\$ 69,000.00	35%	\$ 44,850.00
\$ 700.00	35%	\$ 455.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 12,500.00	35%	\$ 8,125.00
\$ 2,300.00	35%	\$ 1,495.00
\$ 650.00	35%	\$ 422.50
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 11,950.00	35%	\$ 7,767.50
\$ 11,950.00	35%	\$ 7,767.50
\$ 12,052.00	35%	\$ 7,833.80
\$ 17,500.00	35%	\$ 11,375.00

\$ 17,400.00	35%	\$ 11,310.00
\$ 17,750.00	35%	\$ 11,537.50
\$ 11,840.00	35%	\$ 7,696.00
\$ 11,854.00	35%	\$ 7,705.10
\$ 11,863.00	35%	\$ 7,710.95
\$ 17,500.00	35%	\$ 11,375.00
\$ 17,500.00	35%	\$ 11,375.00
\$ 17,500.00	35%	\$ 11,375.00
\$ 900.00	35%	\$ 585.00
\$ 900.00	35%	\$ 585.00
\$ 500.00	35%	\$ 325.00

\$ 500.00	35%	\$ 325.00
\$ 31,000.00	35%	\$ 20,150.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 87,000.00	35%	\$ 56,550.00
\$ 185.00	35%	\$ 120.25
\$ 1,250.00	35%	\$ 812.50
\$ 185.00	35%	\$ 120.25
\$ 275.00	35%	\$ 178.75
\$ 5,995.00	35%	\$ 3,896.75
\$ 5,995.00	35%	\$ 3,896.75
\$ 60,000.00	35%	\$ 39,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 70,000.00	35%	\$ 45,500.00

\$ 70,000.00	35%	\$ 45,500.00
\$ 80,000.00	35%	\$ 52,000.00
\$ 80,000.00	35%	\$ 52,000.00
\$ 2,078.00	35%	\$ 1,350.70
\$ 950.00	35%	\$ 617.50
\$ 275,000.00	35%	\$ 178,750.00
\$ 275,000.00	35%	\$ 178,750.00

\$ 9,100.00	35%	\$ 5,915.00
\$ 8,500.00	35%	\$ 5,525.00
\$ 8,350.00	35%	\$ 5,427.50
\$ 7,500.00	35%	\$ 4,875.00
\$ 9,575.00	35%	\$ 6,223.75
\$ 8,650.00	35%	\$ 5,622.50
\$ 750.00	35%	\$ 487.50
\$ 1,430.00	35%	\$ 929.50
\$ 640.00	35%	\$ 416.00
\$ 700.00	35%	\$ 455.00
\$ 1,200.00	35%	\$ 780.00
\$ 1,500.00	35%	\$ 975.00
\$ 38,600.00	35%	\$ 25,090.00
\$ 6,325.00	35%	\$ 4,111.25
\$ 6,450.00	35%	\$ 4,192.50

\$ 5,000.00	35%	\$ 3,250.00
\$ 5,200.00	35%	\$ 3,380.00
\$ 6,325.00	35%	\$ 4,111.25
\$ 6,450.00	35%	\$ 4,192.50
\$ 4,825.00	35%	\$ 3,136.25
\$ 5,000.00	35%	\$ 3,250.00

\$ 8,400.00	35%	\$ 5,460.00
\$ 7,000.00	35%	\$ 4,550.00
\$ 455.00	35%	\$ 295.75
\$ 1,100.00	35%	\$ 715.00
\$ 1,100.00	35%	\$ 715.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 6,500.00	35%	\$ 4,225.00
\$ 28,000.00	35%	\$ 18,200.00
\$ 9,999.00	35%	\$ 6,499.35
\$ 25,000.00	35%	\$ 16,250.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 422,500.00	35%	\$ 274,625.00
\$ 125,000.00	35%	\$ 81,250.00
\$ 250,000.00	35%	\$ 162,500.00
\$ 225.00	35%	\$ 146.25
\$ 225.00	35%	\$ 146.25
\$ 700.00	35%	\$ 455.00
\$ 700.00	35%	\$ 455.00
\$ 35,000.00	35%	\$ 22,750.00

\$ 45,000.00	35%	\$ 29,250.00
\$ 800.00	35%	\$ 520.00
\$ 1,800.00	35%	\$ 1,170.00
\$ 40,800.00	35%	\$ 26,520.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 1,000.00	35%	\$ 650.00
\$ 1,000.00	35%	\$ 650.00
\$ 600.00	35%	\$ 390.00

\$ 500.00	35%	\$ 325.00
\$ 500.00	35%	\$ 325.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 170.00	35%	\$ 110.50
\$ 25,000.00	35%	\$ 16,250.00
\$ 3,350.00	35%	\$ 2,177.50
\$ 3,500.00	35%	\$ 2,275.00
\$ 260.00	35%	\$ 169.00
\$ 485.00	35%	\$ 315.25
\$ 600.00	35%	\$ 390.00
\$ 525.00	35%	\$ 341.25
\$ 525.00	35%	\$ 341.25
\$ 240,000.00	35%	\$ 156,000.00
\$ 1,600.00	35%	\$ 1,040.00
\$ 1,600.00	35%	\$ 1,040.00
\$ 1,300.00	35%	\$ 845.00
\$ 1,300.00	35%	\$ 845.00

\$ 15,000.00	35%	\$ 9,750.00
\$ 31,500.00	35%	\$ 20,475.00
\$ 47,500.00	35%	\$ 30,875.00
\$ 4,500.00	35%	\$ 2,925.00
\$ 6,800.00	35%	\$ 4,420.00
\$ 11,500.00	35%	\$ 7,475.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 1,200.00	35%	\$ 780.00
\$ 1,500.00	35%	\$ 975.00
\$ 200.00	35%	\$ 130.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 40,000.00	35%	\$ 26,000.00

\$ 30,000.00	35%	\$ 19,500.00
\$ 15,000.00	35%	\$ 9,750.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 15,000.00	35%	\$ 9,750.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 12,500.00	35%	\$ 8,125.00
\$ 10,000.00	35%	\$ 6,500.00

\$ 2,500.00	35%	\$ 1,625.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 1,000.00	35%	\$ 650.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 650.00	35%	\$ 422.50
\$ 5,000.00	35%	\$ 3,250.00
\$ 650.00	35%	\$ 422.50
\$ 3,000.00	35%	\$ 1,950.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 1,000.00	35%	\$ 650.00
\$ 2,200.00	35%	\$ 1,430.00
\$ 800.00	35%	\$ 520.00

\$ 50,000.00	35%	\$ 32,500.00
\$ 1,500.00	35%	\$ 975.00
\$ 91,000.00	35%	\$ 59,150.00
\$ 142,350.00	35%	\$ 92,527.50
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 88,000.00	35%	\$ 57,200.00
\$ 38,000.00	35%	\$ 24,700.00
\$ 12,000.00	35%	\$ 7,800.00
\$ 3,995.00	35%	\$ 2,596.75
\$ 3,995.00	35%	\$ 2,596.75
\$ 6,500.00	35%	\$ 4,225.00
\$ 1,500.00	35%	\$ 975.00
\$ 16,000.00	35%	\$ 10,400.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 26,000.00	35%	\$ 16,900.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 1,250.00	35%	\$ 812.50
\$ 200.00	35%	\$ 130.00
\$ 200.00	35%	\$ 130.00
\$ 650.00	35%	\$ 422.50
\$ 185,000.00	35%	\$ 120,250.00

\$ 60,000.00	35%	\$ 39,000.00
\$ 58,000.00	35%	\$ 37,700.00
\$ 880,000.00	35%	\$ 572,000.00
\$ 1,040,000.00	35%	\$ 676,000.00
\$ 1,200,000.00	35%	\$ 780,000.00
\$ 3,700.00	35%	\$ 2,405.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 1,000.00	35%	\$ 650.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 86,000.00	35%	\$ 55,900.00
\$ 705,000.00	35%	\$ 458,250.00
\$ 533,000.00	35%	\$ 346,450.00
\$ 91,000.00	35%	\$ 59,150.00

\$ 142,350.00	35%	\$ 92,527.50
\$ 1.00	35%	\$ 0.65
\$ 50,000.00	35%	\$ 32,500.00
\$ 350.00	35%	\$ 227.50
\$ 350.00	35%	\$ 227.50
\$ 200.00	35%	\$ 130.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 5,000.00	35%	\$ 3,250.00

\$ 2,500.00	35%	\$ 1,625.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 6,516.00	35%	\$ 4,235.40
\$ 3,028.00	35%	\$ 1,968.20
\$ 2,832.00	35%	\$ 1,840.80
\$ 550.00	35%	\$ 357.50
\$ 550.00	35%	\$ 357.50
\$ 300.00	35%	\$ 195.00
\$ 31,000.00	35%	\$ 20,150.00
\$ 4,250.00	35%	\$ 2,762.50
\$ 4,250.00	35%	\$ 2,762.50

\$ 3,600.00	35%	\$ 2,340.00
\$ 3,300.00	35%	\$ 2,145.00
\$ 108,000.00	35%	\$ 70,200.00
\$ 396,000.00	35%	\$ 257,400.00
\$ 13,000.00	35%	\$ 8,450.00
\$ 1,080.00	35%	\$ 702.00
\$ 1,200.00	35%	\$ 780.00
\$ 600.00	35%	\$ 390.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 13,750.00	35%	\$ 8,937.50
\$ 22,000.00	35%	\$ 14,300.00
\$ 28,000.00	35%	\$ 18,200.00
\$ 250.00	35%	\$ 162.50
\$ 250.00	35%	\$ 162.50
\$ 22,000.00	35%	\$ 14,300.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 28,500.00	35%	\$ 18,525.00
\$ 400.00	35%	\$ 260.00
\$ 250.00	35%	\$ 162.50
\$ 400,000.00	0%	\$ 400,000.00
\$ 200,000.00	0%	\$ 200,000.00
\$ 200,000.00	0%	\$ 200,000.00
\$ 12,200.00	35%	\$ 7,930.00
\$ 12,600.00	35%	\$ 8,190.00
\$ 1,800.00	35%	\$ 1,170.00
\$ 1,170.00	35%	\$ 760.50
\$ 1,170.00	35%	\$ 760.50
\$ 200.00	35%	\$ 130.00
\$ 200.00	35%	\$ 130.00
\$ 155,000.00	35%	\$ 100,750.00
\$ 145,000.00	35%	\$ 94,250.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 2,000.00	35%	\$ 1,300.00

\$ 3,000.00	35%	\$ 1,950.00
\$ 30.00	35%	\$ 19.50
\$ 30.00	35%	\$ 19.50
\$ 30.00	35%	\$ 19.50
\$ 30.00	35%	\$ 19.50
\$ 30.00	35%	\$ 19.50
\$ 30.00	35%	\$ 19.50
\$ 30.00	35%	\$ 19.50
\$ 30.00	35%	\$ 19.50
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 70.00	35%	\$ 45.50
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 70.00	35%	\$ 45.50
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 70.00	35%	\$ 45.50
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 70.00	35%	\$ 45.50
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 40.00	35%	\$ 26.00
\$ 70.00	35%	\$ 45.50
\$ 100.00	35%	\$ 65.00
\$ 30.00	35%	\$ 19.50
\$ 125.00	35%	\$ 81.25
\$ 4,248.00	35%	\$ 2,761.20
\$ 4,995.00	35%	\$ 3,246.75
\$ 4,995.00	35%	\$ 3,246.75
\$ 4,995.00	35%	\$ 3,246.75
\$ 4,995.00	35%	\$ 3,246.75
\$ 9,995.00	35%	\$ 6,496.75
\$ 9,995.00	35%	\$ 6,496.75
\$ 28,000.00	35%	\$ 18,200.00
\$ 16,800.00	35%	\$ 10,920.00
\$ 16,800.00	35%	\$ 10,920.00

\$ 15,540.00	35%	\$ 10,101.00
\$ 15,540.00	35%	\$ 10,101.00
\$ 16,600.00	35%	\$ 10,790.00
\$ 16,600.00	35%	\$ 10,790.00
\$ 15,340.00	35%	\$ 9,971.00
\$ 15,340.00	35%	\$ 9,971.00
\$ 28,000.00	35%	\$ 18,200.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 28,000.00	35%	\$ 18,200.00
\$ 680.00	35%	\$ 442.00
\$ 800.00	35%	\$ 520.00
\$ 1,000.00	35%	\$ 650.00
\$ 1,750.00	35%	\$ 1,137.50
\$ 255,000.00	35%	\$ 165,750.00
\$ 335,000.00	35%	\$ 217,750.00

\$ 415,000.00	35%	\$ 269,750.00
\$ 255,000.00	35%	\$ 165,750.00
\$ 335,000.00	35%	\$ 217,750.00
\$ 415,000.00	35%	\$ 269,750.00
\$ 4,200.00	35%	\$ 2,730.00
\$ 4,500.00	35%	\$ 2,925.00
\$ 1,850.00	35%	\$ 1,202.50
\$ 1,850.00	35%	\$ 1,202.50
\$ 4,000.00	35%	\$ 2,600.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 1,000.00	35%	\$ 650.00
\$ 1,000.00	35%	\$ 650.00
\$ 325.00	35%	\$ 211.25
\$ 17,000.00	35%	\$ 11,050.00
\$ 17,000.00	35%	\$ 11,050.00
\$ 150.00	35%	\$ 97.50
\$ 12,500.00	35%	\$ 8,125.00
\$ 4,100.00	35%	\$ 2,665.00
\$ 7,300.00	35%	\$ 4,745.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 50,000.00	35%	\$ 32,500.00

\$ 480,000.00	35%	\$ 312,000.00
\$ 560,000.00	35%	\$ 364,000.00
\$ 640,000.00	35%	\$ 416,000.00
\$ 120,000.00	35%	\$ 78,000.00
\$ 240,000.00	35%	\$ 156,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 600.00	35%	\$ 390.00
\$ 900.00	35%	\$ 585.00
\$ 300.00	35%	\$ 195.00
\$ 45.00	35%	\$ 29.25
\$ 225.00	35%	\$ 146.25
\$ 500.00	35%	\$ 325.00
\$ 500.00	35%	\$ 325.00
\$ 225.00	35%	\$ 146.25
\$ 150.00	35%	\$ 97.50
\$ 325.00	35%	\$ 211.25
\$ 500.00	35%	\$ 325.00
\$ 175.00	35%	\$ 113.75

\$ 350.00	35%	\$ 227.50
\$ 525.00	35%	\$ 341.25
\$ 200.00	35%	\$ 130.00
\$ 825.00	35%	\$ 536.25
\$ 625.00	35%	\$ 406.25
\$ 625.00	35%	\$ 406.25
\$ 4,300.00	35%	\$ 2,795.00
\$ 7,300.00	35%	\$ 4,745.00
\$ 7,400.00	35%	\$ 4,810.00
\$ 365.00	35%	\$ 237.25
\$ 7,000.00	35%	\$ 4,550.00
\$ 3,000.00	35%	\$ 1,950.00

\$ 5,500.00	35%	\$ 3,575.00
\$ 70,000.00	35%	\$ 45,500.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 100.00	35%	\$ 65.00
\$ 800,000.00	35%	\$ 520,000.00
\$ 960,000.00	35%	\$ 624,000.00
\$ 1,120,000.00	35%	\$ 728,000.00
\$ 960,000.00	35%	\$ 624,000.00
\$ 1,200,000.00	35%	\$ 780,000.00

\$ 1,440,000.00	35%	\$ 936,000.00
\$ 1,080,000.00	35%	\$ 702,000.00
\$ 1,320,000.00	35%	\$ 858,000.00
\$ 1,560,000.00	35%	\$ 1,014,000.00
\$ 1,440,000.00	35%	\$ 936,000.00
\$ 1,760,000.00	35%	\$ 1,144,000.00

\$ 2,080,000.00	35%	\$ 1,352,000.00
\$ 1,600,000.00	35%	\$ 1,040,000.00
\$ 1,920,000.00	35%	\$ 1,248,000.00
\$ 2,240,000.00	35%	\$ 1,456,000.00
\$ 950.00	35%	\$ 617.50
\$ 255,000.00	35%	\$ 165,750.00
\$ 700.00	35%	\$ 455.00
\$ 700.00	35%	\$ 455.00
\$ 4,600.00	35%	\$ 2,990.00
\$ 1,200.00	35%	\$ 780.00
\$ 14,700.00	35%	\$ 9,555.00
\$ 16,000.00	35%	\$ 10,400.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 1,700.00	35%	\$ 1,105.00
\$ 2,100.00	35%	\$ 1,365.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 700.00	35%	\$ 455.00
\$ 700.00	35%	\$ 455.00
\$ 225.00	35%	\$ 146.25
\$ 40,000.00	35%	\$ 26,000.00

\$ 42,000.00	35%	\$ 27,300.00
\$ 37,500.00	35%	\$ 24,375.00
\$ 800.00	35%	\$ 520.00
\$ 825.00	35%	\$ 536.25
\$ 900.00	35%	\$ 585.00
\$ 1,500.00	35%	\$ 975.00
\$ 1,650.00	35%	\$ 1,072.50
\$ 1,675.00	35%	\$ 1,088.75
\$ 1,900.00	35%	\$ 1,235.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 1,200.00	35%	\$ 780.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 1,400.00	35%	\$ 910.00
\$ 1,000.00	35%	\$ 650.00

\$ 7,750.00	35%	\$ 5,037.50
\$ 9,750.00	35%	\$ 6,337.50
\$ 1,850.00	35%	\$ 1,202.50
\$ 2,000.00	35%	\$ 1,300.00
\$ 13,700.00	35%	\$ 8,905.00
\$ 533,333.33	35%	\$ 346,666.67
\$ 640,000.00	35%	\$ 416,000.00
\$ 746,666.67	35%	\$ 485,333.33
\$ 345,000.00	35%	\$ 224,250.00
\$ 335,000.00	35%	\$ 217,750.00
\$ 335,000.00	35%	\$ 217,750.00
\$ 345,000.00	35%	\$ 224,250.00
\$ 335,000.00	35%	\$ 217,750.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 3,800.00	35%	\$ 2,470.00
\$ 1,100.00	35%	\$ 715.00
\$ 450,000.00	35%	\$ 292,500.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 200,000.00	35%	\$ 130,000.00

\$ 240,000.00	35%	\$ 156,000.00
\$ 280,000.00	35%	\$ 182,000.00
\$ 400,000.00	35%	\$ 260,000.00
\$ 480,000.00	35%	\$ 312,000.00
\$ 560,000.00	35%	\$ 364,000.00
\$ 440,000.00	35%	\$ 286,000.00
\$ 520,000.00	35%	\$ 338,000.00

\$ 600,000.00	35%	\$ 390,000.00
\$ 9,000.00	35%	\$ 5,850.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 850.00	35%	\$ 552.50
\$ 850.00	35%	\$ 552.50
\$ 7,000.00	35%	\$ 4,550.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 100.00	35%	\$ 65.00
\$ 750.00	35%	\$ 487.50
\$ 400.00	35%	\$ 260.00
\$ 550.00	35%	\$ 357.50
\$ 1,000.00	35%	\$ 650.00
\$ 135,000.00	35%	\$ 87,750.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 26,000.00	35%	\$ 16,900.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 350.00	35%	\$ 227.50
\$ 350.00	35%	\$ 227.50
\$ 119,000.00	35%	\$ 77,350.00
\$ 1,320.00	35%	\$ 858.00
\$ 1,320.00	35%	\$ 858.00
\$ 440.00	35%	\$ 286.00
\$ 185,000.00	35%	\$ 120,250.00
\$ 310,000.00	35%	\$ 201,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 350.00	35%	\$ 227.50
\$ 7,000.00	35%	\$ 4,550.00
\$ 350.00	35%	\$ 227.50
\$ 28,000.00	35%	\$ 18,200.00

\$ 30,000.00	35%	\$ 19,500.00
\$ 66,000.00	35%	\$ 42,900.00
\$ 68,000.00	35%	\$ 44,200.00
\$ 70,000.00	35%	\$ 45,500.00
\$ 610,000.00	35%	\$ 396,500.00
\$ 385,000.00	35%	\$ 250,250.00

\$ 335,000.00	35%	\$ 217,750.00
\$ 335,000.00	35%	\$ 217,750.00
\$ 800,000.00	35%	\$ 520,000.00

\$ 960,000.00	35%	\$ 624,000.00
\$ 1,120,000.00	35%	\$ 728,000.00
\$ 1,080,000.00	35%	\$ 702,000.00

\$ 1,320,000.00	35%	\$ 858,000.00
\$ 1,560,000.00	35%	\$ 1,014,000.00
\$ 1,080,000.00	35%	\$ 702,000.00

\$ 1,320,000.00	35%	\$ 858,000.00
\$ 1,560,000.00	35%	\$ 1,014,000.00
\$ 1,440,000.00	35%	\$ 936,000.00

\$ 1,760,000.00	35%	\$ 1,144,000.00
\$ 2,080,000.00	35%	\$ 1,352,000.00
\$ 1,440,000.00	35%	\$ 936,000.00

\$ 1,760,000.00	35%	\$ 1,144,000.00
\$ 2,080,000.00	35%	\$ 1,352,000.00
\$ 1,600,000.00	35%	\$ 1,040,000.00
\$ 1,920,000.00	35%	\$ 1,248,000.00

\$ 2,240,000.00	35%	\$ 1,456,000.00
\$ 1,600,000.00	35%	\$ 1,040,000.00
\$ 1,920,000.00	35%	\$ 1,248,000.00
\$ 2,240,000.00	35%	\$ 1,456,000.00
\$ 172,500.00	35%	\$ 112,125.00
\$ 297,500.00	35%	\$ 193,375.00

\$ 172,000.00	35%	\$ 111,800.00
\$ 75.00	35%	\$ 48.75
\$ 9,995.00	35%	\$ 6,496.75
\$ 1,645.00	35%	\$ 1,069.25
\$ 226,700.00	35%	\$ 147,355.00
\$ 149,850.00	35%	\$ 97,402.50
\$ 227,900.00	35%	\$ 148,135.00
\$ 150,450.00	35%	\$ 97,792.50
\$ 238,700.00	35%	\$ 155,155.00

\$ 161,850.00	35%	\$ 105,202.50
\$ 239,900.00	35%	\$ 155,935.00
\$ 162,450.00	35%	\$ 105,592.50
\$ 125.00	35%	\$ 81.25
\$ 9,000.00	35%	\$ 5,850.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 335.00	35%	\$ 217.75
\$ 335.00	35%	\$ 217.75
\$ 270,000.00	35%	\$ 175,500.00
\$ 350,000.00	35%	\$ 227,500.00

\$ 430,000.00	35%	\$ 279,500.00
\$ 270,000.00	35%	\$ 175,500.00
\$ 350,000.00	35%	\$ 227,500.00
\$ 430,000.00	35%	\$ 279,500.00
\$ 36,450.00	35%	\$ 23,692.50
\$ 2,360.00	35%	\$ 1,534.00
\$ 1,200.00	35%	\$ 780.00
\$ 780.00	35%	\$ 507.00
\$ 720.00	35%	\$ 468.00
\$ 1,068.00	35%	\$ 694.20
\$ 1,212.00	35%	\$ 787.80
\$ 100,000.00	35%	\$ 65,000.00
\$ 100,000.00	35%	\$ 65,000.00

\$ 320,000.00	35%	\$ 208,000.00
\$ 373,333.00	35%	\$ 242,666.45
\$ 426,667.00	35%	\$ 277,333.55
\$ 375,000.00	35%	\$ 243,750.00
\$ 375,000.00	35%	\$ 243,750.00
\$ 66,666.67	35%	\$ 43,333.33
\$ 66,666.67	35%	\$ 43,333.33
\$ 100,000.00	35%	\$ 65,000.00

\$ 100,000.00	35%	\$ 65,000.00
\$ 175,000.00	35%	\$ 113,750.00
\$ 120,000.00	35%	\$ 78,000.00
\$ 533,333.33	35%	\$ 346,666.67
\$ 640,000.00	35%	\$ 416,000.00
\$ 746,666.67	35%	\$ 485,333.33
\$ 400,000.00	35%	\$ 260,000.00
\$ 466,666.67	35%	\$ 303,333.33
\$ 100,000.00	35%	\$ 65,000.00
\$ 133,333.33	35%	\$ 86,666.67

\$ 133,333.33	35%	\$ 86,666.67
\$ 200,000.00	35%	\$ 130,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 150,000.00	35%	\$ 97,500.00
\$ 450,000.00	35%	\$ 292,500.00
\$ 550,000.00	35%	\$ 357,500.00
\$ 650,000.00	35%	\$ 422,500.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 300,000.00	35%	\$ 195,000.00
\$ 300,000.00	35%	\$ 195,000.00
\$ 400,000.00	35%	\$ 260,000.00
\$ 400,000.00	35%	\$ 260,000.00
\$ 333,333.33	35%	\$ 216,666.67

\$ 400,000.00	35%	\$ 260,000.00
\$ 466,666.67	35%	\$ 303,333.33
\$ 100,000.00	35%	\$ 65,000.00
\$ 133,333.33	35%	\$ 86,666.67
\$ 133,333.33	35%	\$ 86,666.67
\$ 200,000.00	35%	\$ 130,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 150,000.00	35%	\$ 97,500.00
\$ 450,000.00	35%	\$ 292,500.00
\$ 550,000.00	35%	\$ 357,500.00
\$ 650,000.00	35%	\$ 422,500.00

\$ 400,000.00	35%	\$ 260,000.00
\$ 400,000.00	35%	\$ 260,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 518,333.33	35%	\$ 336,916.67
\$ 625,000.00	35%	\$ 406,250.00
\$ 731,666.67	35%	\$ 475,583.33
\$ 518,333.33	35%	\$ 336,916.67
\$ 625,000.00	35%	\$ 406,250.00

\$ 731,666.67	35%	\$ 475,583.33
\$ 785,000.00	35%	\$ 510,250.00
\$ 945,000.00	35%	\$ 614,250.00
\$ 1,105,000.00	35%	\$ 718,250.00
\$ 865,000.00	35%	\$ 562,250.00
\$ 1,025,000.00	35%	\$ 666,250.00
\$ 1,185,000.00	35%	\$ 770,250.00
\$ 865,000.00	35%	\$ 562,250.00
\$ 1,025,000.00	35%	\$ 666,250.00

\$ 1,185,000.00	35%	\$ 770,250.00
\$ 945,000.00	35%	\$ 614,250.00
\$ 1,185,000.00	35%	\$ 770,250.00
\$ 1,425,000.00	35%	\$ 926,250.00
\$ 945,000.00	35%	\$ 614,250.00
\$ 1,185,000.00	35%	\$ 770,250.00
\$ 1,425,000.00	35%	\$ 926,250.00

\$ 1,065,000.00	35%	\$ 692,250.00
\$ 1,305,000.00	35%	\$ 848,250.00
\$ 1,545,000.00	35%	\$ 1,004,250.00
\$ 1,065,000.00	35%	\$ 692,250.00
\$ 1,305,000.00	35%	\$ 848,250.00
\$ 1,545,000.00	35%	\$ 1,004,250.00
\$ 1,425,000.00	35%	\$ 926,250.00

\$ 1,745,000.00	35%	\$ 1,134,250.00
\$ 2,065,000.00	35%	\$ 1,342,250.00
\$ 1,425,000.00	35%	\$ 926,250.00
\$ 1,745,000.00	35%	\$ 1,134,250.00
\$ 2,065,000.00	35%	\$ 1,342,250.00
\$ 1,585,000.00	35%	\$ 1,030,250.00
\$ 1,905,000.00	35%	\$ 1,238,250.00
\$ 2,225,000.00	35%	\$ 1,446,250.00

\$ 1,585,000.00	35%	\$ 1,030,250.00
\$ 1,905,000.00	35%	\$ 1,238,250.00
\$ 2,225,000.00	35%	\$ 1,446,250.00
\$ 533,333.33	35%	\$ 346,666.67
\$ 640,000.00	35%	\$ 416,000.00
\$ 746,666.67	35%	\$ 485,333.33

\$ 533,333.33	35%	\$ 346,666.67
\$ 640,000.00	35%	\$ 416,000.00
\$ 746,666.67	35%	\$ 485,333.33
\$ 880,000.00	35%	\$ 572,000.00

\$ 1,040,000.00	35%	\$ 676,000.00
\$ 1,200,000.00	35%	\$ 780,000.00
\$ 880,000.00	35%	\$ 572,000.00
\$ 1,040,000.00	35%	\$ 676,000.00

\$ 1,200,000.00	35%	\$ 780,000.00
\$ 960,000.00	35%	\$ 624,000.00
\$ 1,200,000.00	35%	\$ 780,000.00
\$ 1,440,000.00	35%	\$ 936,000.00

\$ 960,000.00	35%	\$ 624,000.00
\$ 1,200,000.00	35%	\$ 780,000.00
\$ 1,440,000.00	35%	\$ 936,000.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 60,000.00	35%	\$ 39,000.00

\$ 90,000.00	35%	\$ 58,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 385,000.00	35%	\$ 250,250.00
\$ 610,000.00	35%	\$ 396,500.00

\$ 32,000.00	35%	\$ 20,800.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 180,000.00	35%	\$ 117,000.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 70,000.00	35%	\$ 45,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 275.00	35%	\$ 178.75
\$ 275.00	35%	\$ 178.75
\$ 1,980.00	35%	\$ 1,287.00
\$ 1,920.00	35%	\$ 1,248.00
\$ 1,920.00	35%	\$ 1,248.00
\$ 2,800.00	35%	\$ 1,820.00
\$ 2,800.00	35%	\$ 1,820.00
\$ 2,800.00	35%	\$ 1,820.00
\$ 1,360.00	35%	\$ 884.00
\$ 960.00	35%	\$ 624.00
\$ 880.00	35%	\$ 572.00
\$ 175,000.00	35%	\$ 113,750.00
\$ 924,000.00	35%	\$ 600,600.00
\$ 1,164,000.00	35%	\$ 756,600.00
\$ 1,404,000.00	35%	\$ 912,600.00
\$ 333,333.33	35%	\$ 216,666.67
\$ 75,000.00	35%	\$ 48,750.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 50,000.00	35%	\$ 32,500.00

\$ 125,000.00	35%	\$ 81,250.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 85,000.00	35%	\$ 55,250.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 160,000.00	35%	\$ 104,000.00
\$ 135,000.00	35%	\$ 87,750.00
\$ 178,000.00	35%	\$ 115,700.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 27,500.00	35%	\$ 17,875.00
\$ 985,000.00	35%	\$ 640,250.00
\$ 1,185,000.00	35%	\$ 770,250.00
\$ 1,385,000.00	35%	\$ 900,250.00
\$ 2,900.00	35%	\$ 1,885.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 10,000.00	35%	\$ 6,500.00

\$ 32,900.00	35%	\$ 21,385.00
\$ 450.00	35%	\$ 292.50
\$ 122,960.00	35%	\$ 79,924.00
\$ 122,960.00	35%	\$ 79,924.00
\$ 600.00	35%	\$ 390.00
\$ 600.00	35%	\$ 390.00
\$ 400.00	35%	\$ 260.00
\$ 300.00	35%	\$ 195.00
\$ 2,200.00	35%	\$ 1,430.00
\$ 2,200.00	35%	\$ 1,430.00
\$ 2,800.00	35%	\$ 1,820.00
\$ 2,800.00	35%	\$ 1,820.00
\$ 3,800.00	35%	\$ 2,470.00

\$ 95,000.00	35%	\$ 61,750.00
\$ 95,000.00	35%	\$ 61,750.00
\$ 800,000.00	35%	\$ 520,000.00
\$ 960,000.00	35%	\$ 624,000.00
\$ 1,120,000.00	35%	\$ 728,000.00
\$ 333,333.33	35%	\$ 216,666.67
\$ 400,000.00	35%	\$ 260,000.00
\$ 466,666.67	35%	\$ 303,333.33
\$ 133,333.33	35%	\$ 86,666.67
\$ 133,333.33	35%	\$ 86,666.67
\$ 200,000.00	35%	\$ 130,000.00
\$ 231,250.00	35%	\$ 150,312.50
\$ 200,000.00	35%	\$ 130,000.00

\$ 281,250.00	35%	\$ 182,812.50
\$ 331,250.00	35%	\$ 215,312.50
\$ 250,000.00	35%	\$ 162,500.00
\$ 220,000.00	35%	\$ 143,000.00
\$ 275.00	35%	\$ 178.75
\$ 55.00	35%	\$ 35.75
\$ 500.00	35%	\$ 325.00
\$ 500.00	35%	\$ 325.00
\$ 785,000.00	35%	\$ 510,250.00
\$ 945,000.00	35%	\$ 614,250.00

\$ 1,105,000.00	35%	\$ 718,250.00
\$ 20,995.00	35%	\$ 13,646.75
\$ 2,500.00	35%	\$ 1,625.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 28,600.00	35%	\$ 18,590.00
\$ 33,600.00	35%	\$ 21,840.00
\$ 21,900.00	35%	\$ 14,235.00
\$ 26,900.00	35%	\$ 17,485.00
\$ 1,100.00	35%	\$ 715.00
\$ 1,600.00	35%	\$ 1,040.00
\$ 1,320.00	35%	\$ 858.00
\$ 1,800.00	35%	\$ 1,170.00
\$ 2,074.00	35%	\$ 1,348.10
\$ 2,213.00	35%	\$ 1,438.45
\$ 2,768.00	35%	\$ 1,799.20
\$ 2,835.00	35%	\$ 1,842.75
\$ 550.00	35%	\$ 357.50
\$ 5,000.00	35%	\$ 3,250.00
\$ 1,250.00	35%	\$ 812.50
\$ 2,500.00	35%	\$ 1,625.00
\$ 220,000.00	35%	\$ 143,000.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 120,000.00	35%	\$ 78,000.00
\$ 168,000.00	35%	\$ 109,200.00

\$ 400,000.00	35%	\$ 260,000.00
\$ 466,666.67	35%	\$ 303,333.33
\$ 533,333.33	35%	\$ 346,666.67
\$ 17,500.00	35%	\$ 11,375.00
\$ 85,000.00	35%	\$ 55,250.00
\$ 700.00	35%	\$ 455.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 116,666.67	35%	\$ 75,833.33
\$ 133,333.33	35%	\$ 86,666.67
\$ 83,333.33	35%	\$ 54,166.67
\$ 83,333.33	35%	\$ 54,166.67

\$ 100,000.00	35%	\$ 65,000.00
\$ 116,666.67	35%	\$ 75,833.33
\$ 133,333.33	35%	\$ 86,666.67
\$ 50,000.00	35%	\$ 32,500.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 250,000.00	35%	\$ 162,500.00
\$ 300,000.00	35%	\$ 195,000.00
\$ 350,000.00	35%	\$ 227,500.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 64,000.00	35%	\$ 41,600.00
\$ 64,000.00	35%	\$ 41,600.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 16,000.00	35%	\$ 10,400.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 25,000.00	35%	\$ 16,250.00

\$ 6,500.00	35%	\$ 4,225.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 8,500.00	35%	\$ 5,525.00
\$ 2,750.00	35%	\$ 1,787.50
\$ 2,750.00	35%	\$ 1,787.50
\$ 3,250.00	35%	\$ 2,112.50
\$ 3,250.00	35%	\$ 2,112.50
\$ 39,000.00	35%	\$ 25,350.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 28,000.00	35%	\$ 18,200.00
\$ 34,000.00	35%	\$ 22,100.00
\$ 300.00	35%	\$ 195.00

\$ 10,000.00	35%	\$ 6,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 1,700.00	35%	\$ 1,105.00
\$ 225,000.00	35%	\$ 146,250.00
\$ 275,000.00	35%	\$ 178,750.00
\$ 325,000.00	35%	\$ 211,250.00
\$ 450,000.00	35%	\$ 292,500.00
\$ 550,000.00	35%	\$ 357,500.00
\$ 650,000.00	35%	\$ 422,500.00
\$ 518,333.33	35%	\$ 336,916.67

\$ 625,000.00	35%	\$ 406,250.00
\$ 731,666.67	35%	\$ 475,583.33
\$ 518,333.33	35%	\$ 336,916.67
\$ 625,000.00	35%	\$ 406,250.00
\$ 731,666.67	35%	\$ 475,583.33
\$ 785,000.00	35%	\$ 510,250.00
\$ 945,000.00	35%	\$ 614,250.00
\$ 1,105,000.00	35%	\$ 718,250.00

\$ 785,000.00	35%	\$ 510,250.00
\$ 945,000.00	35%	\$ 614,250.00
\$ 1,105,000.00	35%	\$ 718,250.00
\$ 985,000.00	35%	\$ 640,250.00
\$ 1,185,000.00	35%	\$ 770,250.00
\$ 1,385,000.00	35%	\$ 900,250.00
\$ 985,000.00	35%	\$ 640,250.00
\$ 1,185,000.00	35%	\$ 770,250.00
\$ 1,385,000.00	35%	\$ 900,250.00
\$ 175.00	35%	\$ 113.75

\$ 450.00	35%	\$ 292.50
\$ 450.00	35%	\$ 292.50
\$ 550.00	35%	\$ 357.50
\$ 62,500.00	35%	\$ 40,625.00
\$ 62,500.00	35%	\$ 40,625.00
\$ 281,250.00	35%	\$ 182,812.50
\$ 343,750.00	35%	\$ 223,437.50
\$ 406,250.00	35%	\$ 264,062.50
\$ 125,000.00	35%	\$ 81,250.00
\$ 125,000.00	35%	\$ 81,250.00
\$ 333,333.33	35%	\$ 216,666.67
\$ 400,000.00	35%	\$ 260,000.00
\$ 466,666.67	35%	\$ 303,333.33
\$ 133,333.33	35%	\$ 86,666.67
\$ 200,000.00	35%	\$ 130,000.00
\$ 250,000.00	35%	\$ 162,500.00
\$ 250,000.00	35%	\$ 162,500.00

\$ 250,000.00	35%	\$ 162,500.00
\$ 300,000.00	35%	\$ 195,000.00
\$ 350,000.00	35%	\$ 227,500.00
\$ 250,000.00	35%	\$ 162,500.00
\$ 250,000.00	35%	\$ 162,500.00
\$ 30,800.00	35%	\$ 20,020.00
\$ 31,240.00	35%	\$ 20,306.00
\$ 24,100.00	35%	\$ 15,665.00
\$ 24,540.00	35%	\$ 15,951.00
\$ 170,000.00	35%	\$ 110,500.00
\$ 170,000.00	35%	\$ 110,500.00
\$ 170,000.00	35%	\$ 110,500.00
\$ 125.00	35%	\$ 81.25
\$ 20,000.00	35%	\$ 13,000.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 500,000.00	35%	\$ 325,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 12,797.00	35%	\$ 8,318.05
\$ 22,415.00	35%	\$ 14,569.75
\$ 29,789.00	35%	\$ 19,362.85
\$ 813.00	35%	\$ 528.45
\$ 813.00	35%	\$ 528.45
\$ 1,778.00	35%	\$ 1,155.70
\$ 1,778.00	35%	\$ 1,155.70
\$ 181.00	35%	\$ 117.65

\$ 181.00	35%	\$ 117.65
\$ 16,000.00	35%	\$ 10,400.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 456.00	35%	\$ 296.40
\$ 300.00	35%	\$ 195.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 11,500.00	35%	\$ 7,475.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 1,000.00	35%	\$ 650.00
\$ 1,500.00	35%	\$ 975.00
\$ 533,333.33	35%	\$ 346,666.67
\$ 640,000.00	35%	\$ 416,000.00

\$ 746,666.67	35%	\$ 485,333.33
\$ 533,333.33	35%	\$ 346,666.67
\$ 640,000.00	35%	\$ 416,000.00
\$ 746,666.67	35%	\$ 485,333.33

\$ 800,000.00	35%	\$ 520,000.00
\$ 960,000.00	35%	\$ 624,000.00
\$ 1,120,000.00	35%	\$ 728,000.00
\$ 800,000.00	35%	\$ 520,000.00

\$ 960,000.00	35%	\$ 624,000.00
\$ 1,120,000.00	35%	\$ 728,000.00
\$ 1,000,000.00	35%	\$ 650,000.00
\$ 1,200,000.00	35%	\$ 780,000.00

\$ 1,400,000.00	35%	\$ 910,000.00
\$ 1,000,000.00	35%	\$ 650,000.00
\$ 1,200,000.00	35%	\$ 780,000.00
\$ 1,400,000.00	35%	\$ 910,000.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 430,700.00	35%	\$ 279,955.00

\$ 257,850.00	35%	\$ 167,602.50
\$ 431,900.00	35%	\$ 280,735.00
\$ 258,450.00	35%	\$ 167,992.50
\$ 1,120.00	35%	\$ 728.00
\$ 1,360.00	35%	\$ 884.00
\$ 120,000.00	35%	\$ 78,000.00
\$ 16,900.00	35%	\$ 10,985.00
\$ 800,000.00	35%	\$ 520,000.00
\$ 960,000.00	35%	\$ 624,000.00

\$ 1,120,000.00	35%	\$ 728,000.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 181.00	35%	\$ 117.65
\$ 181.00	35%	\$ 117.65
\$ 181.00	35%	\$ 117.65
\$ 1,100,000.00	35%	\$ 715,000.00
\$ 500,000.00	35%	\$ 325,000.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 450,000.00	35%	\$ 292,500.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 3,600.00	35%	\$ 2,340.00
\$ 3,600.00	35%	\$ 2,340.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 11,000.00	35%	\$ 7,150.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 40,000.00	35%	\$ 26,000.00

\$ 15,000.00	35%	\$ 9,750.00
\$ 15,000.00	35%	\$ 9,750.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 250.00	35%	\$ 162.50
\$ 181.00	35%	\$ 117.65
\$ 615.00	35%	\$ 399.75
\$ 442,750.00	35%	\$ 287,787.50
\$ 442,750.00	35%	\$ 287,787.50

\$ 385,250.00	35%	\$ 250,412.50
\$ 385,250.00	35%	\$ 250,412.50
\$ 701,500.00	35%	\$ 455,975.00

\$ 701,500.00	35%	\$ 455,975.00
\$ 14,153.00	35%	\$ 9,199.45
\$ 14,153.00	35%	\$ 9,199.45
\$ 15,118.00	35%	\$ 9,826.70
\$ 15,118.00	35%	\$ 9,826.70
\$ 24,309.00	35%	\$ 15,800.85
\$ 24,309.00	35%	\$ 15,800.85
\$ 24,939.00	35%	\$ 16,210.35
\$ 24,939.00	35%	\$ 16,210.35
\$ 31,864.00	35%	\$ 20,711.60
\$ 31,864.00	35%	\$ 20,711.60

\$ 32,494.00	35%	\$ 21,121.10
\$ 32,494.00	35%	\$ 21,121.10
\$ 93,939.43	35%	\$ 61,060.63
\$ 93,939.43	35%	\$ 61,060.63
\$ 93,178.43	35%	\$ 60,565.98
\$ 93,178.43	35%	\$ 60,565.98
\$ 45,834.25	35%	\$ 29,792.26
\$ 45,988.00	35%	\$ 29,892.20
\$ 45,515.33	35%	\$ 29,584.96
\$ 45,669.08	35%	\$ 29,684.90
\$ 87,276.63	35%	\$ 56,729.81
\$ 42,722.01	35%	\$ 27,769.31
\$ 1,943.00	35%	\$ 1,262.95
\$ 1,943.00	35%	\$ 1,262.95
\$ 1,562.50	35%	\$ 1,015.63
\$ 1,562.50	35%	\$ 1,015.63
\$ 278.35	35%	\$ 180.93
\$ 278.35	35%	\$ 180.93
\$ 2,347.24	35%	\$ 1,525.71
\$ 2,347.24	35%	\$ 1,525.71
\$ 2,028.32	35%	\$ 1,318.41
\$ 2,028.32	35%	\$ 1,318.41
\$ 127.50	35%	\$ 82.88

\$ 153.13	35%	\$ 99.53
\$ 10,500.00	35%	\$ 6,825.00
\$ 250.00	35%	\$ 162.50
\$ 1,500.00	35%	\$ 975.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 3,600.00	35%	\$ 2,340.00
\$ 1,200.00	35%	\$ 780.00
\$ 800.00	35%	\$ 520.00
\$ 800.00	35%	\$ 520.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 90,000.00	35%	\$ 58,500.00
\$ 115,000.00	35%	\$ 74,750.00
\$ 135,000.00	35%	\$ 87,750.00
\$ 41,200.00	35%	\$ 26,780.00
\$ 41,640.00	35%	\$ 27,066.00
\$ 30,200.00	35%	\$ 19,630.00
\$ 30,640.00	35%	\$ 19,916.00
\$ 550.00	35%	\$ 357.50
\$ 3,000.00	35%	\$ 1,950.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 1,500.00	35%	\$ 975.00

\$ 1,000.00	35%	\$ 650.00
\$ 35.00	35%	\$ 22.75
\$ 350.00	35%	\$ 227.50
\$ 875.00	35%	\$ 568.75
\$ 1,400.00	35%	\$ 910.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 14,000.00	35%	\$ 9,100.00
\$ 20.00	35%	\$ 13.00
\$ 200.00	35%	\$ 130.00
\$ 500.00	35%	\$ 325.00
\$ 800.00	35%	\$ 520.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 28,000.00	35%	\$ 18,200.00
\$ 6,500.00	35%	\$ 4,225.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 4,500.00	35%	\$ 2,925.00
\$ 1,600.00	35%	\$ 1,040.00
\$ 516,000.00	35%	\$ 335,400.00
\$ 518,000.00	35%	\$ 336,700.00
\$ 466,000.00	35%	\$ 302,900.00
\$ 468,000.00	35%	\$ 304,200.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 300.00	35%	\$ 195.00
\$ 300.00	35%	\$ 195.00
\$ 300.00	35%	\$ 195.00
\$ 519,200.00	35%	\$ 337,480.00

\$ 519,200.00	35%	\$ 337,480.00
\$ 469,200.00	35%	\$ 304,980.00
\$ 469,200.00	35%	\$ 304,980.00
\$ 1,119,200.00	35%	\$ 727,480.00
\$ 1,124,000.00	35%	\$ 730,600.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 700.00	35%	\$ 455.00
\$ 300,000.00	35%	\$ 195,000.00
\$ 120,000.00	35%	\$ 78,000.00
\$ 500.00	35%	\$ 325.00
\$ 225.00	35%	\$ 146.25
\$ 100.00	35%	\$ 65.00
\$ 45.00	35%	\$ 29.25
\$ 200.00	35%	\$ 130.00

\$ 90.00	35%	\$ 58.50
\$ 40.00	35%	\$ 26.00
\$ 18.00	35%	\$ 11.70
\$ 50,000.00	0%	\$ 50,000.00
\$ 50,000.00	0%	\$ 50,000.00
\$ 375.00	35%	\$ 243.75
\$ 169.00	35%	\$ 109.85
\$ 75.00	35%	\$ 48.75
\$ 34.00	35%	\$ 22.10
\$ 150.00	35%	\$ 97.50
\$ 68.00	35%	\$ 44.20
\$ 30.00	35%	\$ 19.50
\$ 14.00	35%	\$ 9.10
\$ 375.00	35%	\$ 243.75
\$ 169.00	35%	\$ 109.85

\$ 75.00	35%	\$ 48.75
\$ 34.00	35%	\$ 22.10
\$ 150.00	35%	\$ 97.50
\$ 68.00	35%	\$ 44.20
\$ 30.00	35%	\$ 19.50
\$ 14.00	35%	\$ 9.10
\$ 100.00	35%	\$ 65.00
\$ 45.00	35%	\$ 29.25
\$ 20.00	35%	\$ 13.00
\$ 9.00	35%	\$ 5.85
\$ 40.00	35%	\$ 26.00
\$ 18.00	35%	\$ 11.70
\$ 8.00	35%	\$ 5.20
\$ 4.00	35%	\$ 2.60

\$ 1.40	35%	\$ 0.91
\$ 1.23	35%	\$ 0.80
\$ 0.88	35%	\$ 0.57
\$ 0.53	35%	\$ 0.35
\$ 0.56	35%	\$ 0.36
\$ 0.49	35%	\$ 0.32
\$ 0.35	35%	\$ 0.23
\$ 0.21	35%	\$ 0.14
\$ 1.40	35%	\$ 0.91
\$ 1.23	35%	\$ 0.80
\$ 0.88	35%	\$ 0.57
\$ 0.53	35%	\$ 0.35
\$ 0.56	35%	\$ 0.36

\$ 0.49	35%	\$ 0.32
\$ 0.35	35%	\$ 0.23
\$ 0.21	35%	\$ 0.14
\$ 0.28	35%	\$ 0.18
\$ 0.25	35%	\$ 0.16
\$ 0.18	35%	\$ 0.11
\$ 0.11	35%	\$ 0.07
\$ 0.11	35%	\$ 0.07
\$ 0.10	35%	\$ 0.06
\$ 0.07	35%	\$ 0.05
\$ 0.04	35%	\$ 0.03
\$ 100.00	35%	\$ 65.00

\$ 45.00	35%	\$ 29.25
\$ 20.00	35%	\$ 13.00
\$ 9.00	35%	\$ 5.85
\$ 40.00	35%	\$ 26.00
\$ 18.00	35%	\$ 11.70
\$ 8.00	35%	\$ 5.20
\$ 4.00	35%	\$ 2.60
\$ 40,000.00	35%	\$ 26,000.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 1,000.00	35%	\$ 650.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 5,000.00	35%	\$ 3,250.00



CODE / PN	PRODUCT / DESCRIPTION
105412522	CA E-KS-24227,L1 26GA RE00 UNDERWRITERS*
105412530	CA E-812A 4/26 RVAR
105412928	COPPER CABLE 286A TINNED 4 PAIR, 24AWG
105412951	COPPER CABLE 286A TINNED 8 PAIR, 24AWG
106038029	GROM-001-GROM-016 1/16IN*
106312523	OPTICAL ATTENUATOR,A3010
106989098	CA E-WP-94077,L2 6PR 22GA CUT TO ORDER *
107504219	KIT-001-TAPE-MKR CM LBL *
108072489	ADAPTER ASSEMBLY, C1101A-2
108672874	CA E-1175ARD 1/22 RVAR 1
108672890	T1/DS1, 1175A, 22AWG, 1PR, Gray jacket
109080473	CABLE ASSEMBLY,LCCADS-A-AB-AB-150
109342246	FI SIM 3.0 SM FC-FC 20M
109373266	FI SIM 1.6 SM LC-LC 3M
109543835	CA ASSY-LWSCC3-12-BS-NC-E/W COAX CONNzd*
109544171	CABLE ASSY*COAX
109546515	CA E-LWS09 8COND 24GA NON-CONN 300V CUS*
109546606	CA E-LWS56 8COND 24GA NON-CONN 300V CUS
109546754	CA ASSY-LWSES09-O-RJ-RJ-E/W SGNL CONNzd*
109546952	CA ASSY-LWSES26-B-RS-RS-E/W SGNL CONNzd*
109547042	CA ASSY-S56ORREW SGNL CONNzd 0FT 300V 8*
109547059	CA ASSY-LWSES59-O-RJ-RJ-E/W SGNL CONNzd
109552430	CA ASSY-LWSER16-O-RS-RS-E/W SGNL CONNzd*
109552455	CA ASSY-LWSES16-O-RS-RS-E/W SGNL CONNzd*
109552463	CA ASSY-LWSES16-B-RS-RS-E/W SGNL CONNzd*
109592915	CLI-LWSMC-2-A40LC-LC-E/W 2UN SGL MODE 0*
109602201	CLB-LWSMC-001C-SRB (OFS#108834169) 1UN *
109608604	CABLE ASSEMBLY, LWSER13-O-RS-RS-E/W, SIG
109608646	CABLE ASSEMBLY, LWSES14-O-RS-RS-E/W, SIG
109608711	CABLE ELECTRONIC, LWS13, 8 COND, 24 GA,
109608745	CA E-LWS14 8COND 24GA NON-CONN 300V CUS*
109617241	FIBER OPTIC CABLE INTERCONNECTION, LWSM6
109619478	CLI-LWSA5-2-SCSC-E/W 2UN MULT 0FT CUST *
109619502	CLI-LWSA5-2-LCLC-E/W 2UN MULT 0FT CUST *
109624387	CA E-LWS54 8COND 24GA NON-CONN 300V CUS*
109624429	CA ASSY-LWSES54-O-RJ-RJ-E/W SGNL CONNzd*
109656637	CA SM SX LC-LC, LWSMC2B
109661959	CA ASSY-LWSES66-O-RS-RS-E/W SGNL CONNzd
109673483	CA E-LWS19 4PR 24GA NON-CONN 300V CUST *
109673517	CA ASSY-LWSES19-O-RS-RS-E/W SGNL CONNzd*
109673533	CABLE ASSY,LWSES19-G-RS-RS-E/W,SHIELDED,
109673558	CABLE ASSY,LWSER19-O-RS-RS-E/W,SHIELDED,
109674002	2F, Indoor, SM-BIF, OFNR, 2.9mm OD SubUn
109708958	CA E-LWS64 8COND 24GA NON-CONN 300V CUS*

109730002	CA E-LWS12 4PR 24GA NON-CONN 300V CUST *
109730036	CA ASSY-LWSES12-O-RS-RS-E/W SGNL CONNZN*
109743195	CA ASSY-LWSES64-O-RS-RS-EW SGNL CONNZN *
109766063	FEE,1830PSS,3 YEAR SW SUBSCRIPTION
109767749	FEE,1830PSS,1 YEAR SW SUBSCRIPTION
109767756	FEE,1830PSS-1/PSS-4,1 YR SW SUBSCRIPTION
109767764	FEE,1830PSS-1/PSS-4,3 YR SW SUBSCRIPTION
109780270	FEE,1830PSS,SW UPGRADE
109780288	FEE,1830PSS-4,SW UPGRADE
109781146	1AB187280001, RU OPTO TRX SFP 1GBE LX
109781450	FEE, 1354RM-PHM, 1 YEAR SW SUBSCRIPTION
109781468	FEE, 1354RM-PHM, 3 YEAR SW SUBSCRIPTION
109785691	SFP MODULE,REUSE,CH300,1AB231410033
109785709	SFP MODULE,REUSE,CH49,1AB231410014
109786384	XFP MODULE,DWWM CH54,REUSE,1AB356630007
109791319	OPTO TRX SFP I-16.1 DDM REUSE
109791582	CIRCUIT PACK,1692 MSE,REUSE,3AL95063AA
109792101	REUSE, CKP 109593012,WWCK01,1625 LAMBDA
109792119	REUSE, CKP 108940511,WWAD03, 1625 LAMBDA
300475712	POWER CABLE HO7VK-2,5MM-*
300477627	29178 POWER CABLE HO7VK-6MM GREEN YELLOW
300478211	CABLE TIE 150MM 3,6MM TY*
300478310	TESAFLEX 15MM (BLUE) IN*
300478328	TESAFLEX 15MM (RED) INS*
300478567	COROPLAST ADHESIVE TAPE *
300479714	TUBULAR LUG 35MM HOLE OF*
300480621	53580.080.001 NUT H M8 A4 (STAINLESS ST)*
300492246	CABLE TIE TYB 23M SET O
300497294	CABLE LUG 2.5MM2 M6
300497336	TUBE CORRUGATED 23MM TWO-PART BLACK
300498359	26877 LGY 35MM2 450/750V RED
300498367	26875 LGY 35MM2 450/750V BLUE
300503000	BARBED TAPE FIBER OPTIC
300506219	NUT M6 SKT NR M6 NUT D*
300506557	TUBE SR- RNF-100 1/4 TYP
300507449	VELCRO TAPE 4,5M-ROLL
300537529	HEX-HEAD SCREW,M8X20MM
300547924	4810000241 HEAT SHRINKAB
300547932	4810000242 HEAT SHRINKAB
300547957	4810000244 HEAT SHRINKAB
300547965	4810000245 HEAT SHRINKAB
300548146	4810000149 WASHER SPRING*
300548153	4810000150 WASHER SPRING*
301005476	Incentive Credit, Optics, 1830 PSS
301042891	HIGH LEVEL OTD-DWDM BOOKING PLACEHOLDER
301071387	SITE MATERIAL PLACEHOLDER FOR IPD
400704698	FUSE-KS19780L6 30A PG00 *
400898318	SUPT-PLT8LH-Q0 CA NYLON PG00 COMMON
400935615	PLUG-1451 SNAP IN BLANK *
401231501	FUSE-GMT 1/2A 1/2 AMP GM*

401231527	FUSE-GMT 3A BUSSMANN DIV*
401231535	FUSE-GMT 5A 5 AMP GMT BU*
401359955	LUG TERM-RC2207 STAKON 1*
401466594	FUSE-GMT 2A TYCO ELECTRONICS
401922919	PLUG-1470 PUSH PENNY 1/2
402099436	FUSE-GMT BUSSMANN DIVISI*
402255152	LUG TERM-10RC10 STAKON T*
402328926	FUSE-GMT 18/100
402646657	THREADED ROD, HTHR050
402777148	CBL PWR 12 AWG 600V SOLID GREEN PVC
402779839	CBL PWR 12 AWG 600V SOLID WHITE PVC
402779847	CBL PWR 12 AWG 600V SOLID BLACK PVC
402834873	COV CAP-P2860-10 CHAN END
403935059	CONN-5356 LIQ TYT 1-1/2 *
405171703	FUSE-KS19780L26 30A 30 A*
405347402	CONN ELEC-WP91412L1 BU00*
405347436	CONN ELEC-WP91412L2 BU00*
405347519	CONN ELEC-WP91412L3 BU00 BURNDY CORP.
405347543	CONN ELEC-WP91412L4 BU00*
405347683	CONN ELEC-WP91412L8 BU00*
405347923	CONN ELEC-WP91412L27 BU00 BURNDY CORP.
405348202	CONN ELEC-WP91412L54 BU0*
405348228	CONN ELEC-WP91412L56 BU00 BURNDY CORP.
405356171	Lug,WP91412L73, 2H-5/8,14-10AWG, 8-10 st
405422858	PAKG-RCB-961 FILAMENT TAPE ROLL 1 X 6*
405445958	CONN, RF COAX
405445982	PLUG-WP91246L133 1IN
405662859	CNTR-RCB988 1.0 EA STOCK
405663741	CNTR-RCB323 CP
406021626	CONN ELEC-WP91412L75 LO0*
406144428	Lug,YAZV10-2TC14, 2H-5/8,14-10AWG, 1/4 s
406187294	FIBER PROTECTION KIT, FGS-MJWR-A
406197681	PAKG-RCB 986 OSI - OUTSI*
406225680	DUCT, FGS-MSHS-A
406225698	CABLE RACK BRACKET KIT, FGS-HLDR 5/8
406225714	THREADED ROD BRACKET KIT, FGS-HNTR-5/8
406281261	HARDWARE, LOCK SCREW-MALE, 250-8501-010
406298778	END CAP-P2860-10 CHAN PL*
406308106	GUTTER, FGS-MDSP-A
406308171	END COVER, FGS-HMEC-A
406308189	HORIZON FITTING, FGS-MHRT-A
406332841	LUG TERM-WP91412L111 CRI*
406335141	LUG TERM-WP91412L135 CRI*
406338145	LUG TERM-WP91412L93 CRIM*
406338152	LUG TERM-WP91412L94 CRIM*
406338194	LUG TERM-WP91412L98 CRIM*
406338244	LUG TERM-WP91412L101 CRI*
406338343	LUG TERM-WP91412L103 CRI*
406338350	LUG
406338368	LUG TERM-WP91412L105 CRI

406338392	LUG,TERMINAL,CRIMP 3/8in STUD
406338400	LUG TERM-WP91412L108 CRI*
406338442	LUG TERMINAL, CRIMP PER WP-91412L110
406338483	LUG TERM-WP91412L115 CRI
406338574	LUG TERM-WP91412L117 CRI*
406338665	LUG TERM-WP91412L121 CRI*
406338673	LUG TERM-WP91412L122 CRI*
406386870	FIBER OPTIC CABLE TROUGH,
406405654	THREADED ROD, FGS-HTHR-5/8-30
406434175	LUG TERM-WP91412L158 CRI
406434472	LUG TERM-WP91412L136 CRI
406455394	FGS-MJWR-C
406455402	DUCT, FIBER, FGS-KTW1-C
406471375	CONN ELEC-YA6CL-2TC10 NO*
406496836	FGuide 90deg Horiz Elbow, 4x4 in,yellow
406510669	FGuide 45deg Down Elbow, 4x4 in,yellow
406510693	45 DEGREE UP ELBOW
406537613	END CAP, 2IN, FGS-HMEC-C
406537647	HORIZONTAL TEE FITTING, 6 W
406540963	HORIZON-FGS-MHTA-C T& CO*
406614099	LUG TERM-YA4CL-2TC14 OSI
406614115	LUG TERM-YA8CL-2TC14 OSI*
406645671	WR COP-KS22641L1 6GA G 1
406645721	WR COP-KS22641L1 8GA G 1*
406645804	WR COP-KS22641L1 12GA W *
406645820	WR COP-KS22641L1 12GA RED 1COND A STRAN*
406670109	PLUG ELEC-UPL220-026 TROMPETER ELECTRON*
406700641	FUSE-WP92461L107 30A 170
406821595	JUNCTION,4X4 CONDUIT CROSS,FGS-MHXP-A
406836031	CONN ELEC-5357 LIQUIDTIG*
406905802	PLUG ELEC-UPL220-025 TROMPETER ELECTRON*
407006337	FUSE-TPA-10 10A 48V DC C*
407006345	FUSE-TPA-15 15A 48V DC C
407006360	FUSE-TPA-25 25A 48V DC C
407006378	FUSE-TPA-30 30A 48V DC C*
407006394	FUSE-TPA-50 50A 48V DC C*
407051747	CONDUIT, U0500001001
407142868	CNTR-RCB 261 OSI - OUTSI*
407214436	TRIM-AXCUTL L TRIM EDGE
407225846	KIT-483578900 MTG 483578900 MOUNTING KIT
407302900	EQP OS-HSC12FR CLEAR TUB
407319235	LUG TERM-YAV2CL-2TC14FX-90 CRIMP 0.25IN*
407334671	LUG TERM-WP91412L171 CRIMP 14GA 750GA F*
407334713	TLB_OV*0A
407357318	FUSE ALARM/INDICATING PIN/BEAD 15 A #GMT
407384635	KIT-TMH263 HDWR EQUIPMEN
407394576	LUG TERM-YA2CL-2TC14E2 C*
407405489	CBL PWR, DOUBL INS,STRANDED,GRAY,LSZH
407405497	CBL PWR 600V 1 COND STRANDED GREEN LSZH
407405505	CBL PWR 600V 1 COND

407405513	CBL PWR 600V 1COND LSZH
407405521	CBL PWR, 1 CORE,KS24194 L3 STRANDED,LSZH
407405539	CBL PWR 12AWG STRANDED GREEN LSZH 1 COND
407405547	CBL PWR 600V STRANDED 1COND
407405554	WR PWR-KS24194L3 10GA 600V COPPER 1COND*
407405570	CBL PWR 10AWG 600V STRANDED GREEN LSZH
407405588	CBL PWR 600V STRANDED 7x23x0.0201 LSZH
407405596	CBL PWR 600V 1 COND
407405604	CBL PWR 600V 1 COND
407405612	CBL PWR 600V 1 COND LSZH
407405620	CBL PWR 600V STRANDED 7x23x0.0201 LSZH
407405638	PWR CBL KS24194 600V 6GA 1COND BLUE LSZH
407405646	WR PWR-KS24194L3 6GA 600V COPPER 1COND
407405661	PWR CBL KS24194 600V 6GA 105DEG LSZH
407405679	CBL PWR 600V STRANDED BLACK 1COND
407405687	CBL PWR 600V 1 COND
407405695	PWR CBL KS24194L3 600V 6GA 1COND LSZH
407405703	PWR CBL KS24194 600V 4GA L3 1 COND LSZH
407405729	PWR CBL KS24194 600V 4GA L3 1 COND LSZH
407405752	PWR CBL KS24194 600V 2GA L3 1/0 STRD LSZ
407405786	PWR CBL KS24194 600V L3 1/0 STRD LSZH
407405836	CBL PWR 600V 1 COND
407405844	CBL PWR 600V 1 COND LSZH
407417179	BRKR CKT-2566-923-00 20A*
407431857	LUG TERM-YAV4CL-2TC14FX-*
407576198	LUG TERM-YA6CL-NT6 CRIMP 6GA 6GA 1GA FE
407576636	CBL PWR 600V 1 COND, STRANDED GRAY LSZH
407726041	LUG TERM-WP91412L176 CRI
407749142	LUG TERM-YA8C-L1-BOX CRI
407758341	LUG TERM-YA25L-2TC38 CRI*
407767532	EXTN-02324-34 OIN 25.812*
407817550	LUG TERM-WP91412 L180 CR
407834258	PWR CBL KS24194 600V 1COND STRANDED RED
407870468	PWR CBL KS24194 600V 2GA L3 1/0 STRD LSZ
407890748	LUG TERM-WP91412 L183 CR*
407998160	BRKR CKT-LMLK1-1RLS4-298*
407998202	BRKR CKT-LMLK1-1RLS4-298
407998269	BRKR CKT-LMLK1-1RLS4-298
408048320	COAXIAL CONNECTOR, 2025-96-7
408135887	PWR CBL KS24194 600V 4GA L3 1 COND LSZH
408140499	PWR CBL 16AWG 600V RED/BLACK PVC STRND
408140507	WR PWR-WP-93746L1 10GA 600V COPPER 2CON*
408156545	WR PWR-WP-93746L1 10GA 6*
408178564	FUSE-KLM-30 30A 600 ALTE
408252187	Lug 2H 6AWG 1/4 Stud, 5/8 Spacing, short
408255255	KIT-FGS-KT03-A1 CAP FIBER CABLE 4in END
408264547	LUG TERM-LPC245350400 ST*
408264596	LUG TERM-LPC245391600 ST*
408275519	CBL PWR 600V 2 COND R/R-BLACK PVC
408275576	CBL PWR 600V 2 COND B/B-BLACK PVC

408298131	KIT-209676 FUSE COMMON 1*
408352003	12x4 Horizontal Tee Yellow
408352029	12x4 to Single 6 Adapter Yellow
408352045	GUTTER-FGS-MH9E-F 90 ELB*
408352060	GUTTER-FGS-HMEC-F END CA*
408352110	BRKT-FGS-HNTR-F-5/8 CNTL
408373405	KIT-54715 PWR COMMON #6 *
408373470	Lug,256-30695-1298, 2H-5/8,14-10AWG,1/4
408382083	KIT-130287 CONNECTOR CORECOMM RJ45 TO D*
408390318	TRAY-02183-01 SLDG 19X17*
408397099	Cabling accessory
408406536	KIT-YA6C-L BOX PWR COMMO
408414787	KIT-YAV10-2TC10 PWR COMM
408426039	SLI-BRACKET, 4 INCH L
408426930	BALUN-MT242A-F TRANSMISS
408428878	KIT-YA6C-L1 BOX PWR COMM*
408440642	KIT-YA2CL-2TC14 PWR COMM
408440675	KIT-YA2C-L2BOX PWR COMMO
408442515	KIT-YA8C-L BOX PWR COMMO*
408452134	BRKT-PPBRKT3.5 MTG STL 3*
408459394	KIT-TP106 TERM BRCG VARI*
408471043	RACKG OPTN-0040320231 AD*
408479624	KIT-FGS-JUNC-A JCT ADC S*
408479632	MATL PAKG-RCB135 ANTSTC *
408521052	ADPTR EL-095911 F/F DB-2*
408532679	TUBG-FGS-MFTY-15F PVC 0X*
408635449	DUCT-FVTHD2X2YL VERTICAL 0IN 0IN 0IN PL*
408635688	BRC-FTR2X2YL END 0IN 0IN COMMON
408660538	TUBE-FGS-MEX1-C-5F FTG P*
408685030	DUCT-FRRA4X4YL HORIZONTAL 0IN 4IN 4IN P*
408685121	DUCT-FRLPR42BL RDCR 00X4
408685147	DUCT-FROVRA4X4YL OUTSIDE 0IN 4IN 4IN PL
408685212	DUCT-FRTR4X4YL SPILLOUT TRUMPET 0IN 4IN
408694354	KIT-0010580100 FRWK COMM
408697480	DUCT-FGS-KTW1-CA CHAN 2IN 2IN 72IN PLSTC
408698652	DUCT-FGS-JUNC-B CONN 6IN 4IN 5IN PLSTC
408701043	KIT-2023934510 FRWK COMMON (1) 5/8-11 T
408730133	LBL-19444 INFO 3.125IN 6.5IN GMDBKPAP F*
408748853	DUCT FIBER CABLE 4 IN, 2 IN
408763134	BRKR CKT-101607 60A 1 24V DC PROTN PLUG*
408764439	RACEWAY-02327-01 WRG TROUGH 0DEG(A) 25.*
408764447	AC BLANK RACEWAY 25.84 L
408768760	BRKR CKT-256694801 60A 1 (-48)V DC TOGL*
408769511	BRKR CKT-102277 20A 1 24V DC TOGL PLUG-*
408769560	BRKR CKT-102281 40A 1 24V DC TOGL PLUG-*
408769586	BRKR CKT-102283 60A 1 24V DC TOGL PLUG-
408777472	LUG FERRULE STRAIGHT 4MM2 INS. COPPER DI
408782803	FUSE-06100C-20 20A 125 AC/DC INDCTG FST*
408786523	BAR-R2-23-122-3 CA TIE STL ROUND 0.1881*
408802551	DUCT-FIVRA2X2YL VERT 2.24IN 6.95IN 6.95*

408802577	DUCT-FOV452X2YL VERT 2.24IN 4.41IN 7.69
408804417	LUG TERM-245393800 CRIMP 0.25IN 4/0 NO
408808186	CON-ACCSRY
408821353	DUCT-FGS-MFAW-A CONN 6.8IN 4.25IN 5.51I*
408839439	CA ASSY-1533R-GREY ETH N-CONNZD OFT 300
408847697	DUCT-FRTSC4YL COV 0IN 0IN 0IN PLSTC PVC
408847713	DUCT-FRRASC4YL COV 0IN 0IN 0IN PLSTC PVC
408847796	DUCT-FROVRASC4YL COV 0IN 0IN 0IN PLSTC
408848398	DUCT-FGS-MEXP-E-A/B/F SO JCT BS 7.89IN *
408868651	SPLICE KIT-YSR34FX28FXLTCKITC 350-4/0
408868677	SPLICE KIT-YSR34FX25FXLTCKITC 350-1/0
408868719	SPLICE INLINE YSR312CFXLTCKITC 350-2/0
408868727	SPLICE INLINE YSR29FX25FXLTCKITC 4/0
408868735	SPLICE INLINE YSR29FX2CFXLTCKITC 4/0-#2
408868792	SPLICE INLINE YSR25FX6CFXLTCKITC 1/0-#6*
408868800	SPLICE INLINE YSR2CFX6CFXLTCKITC #2-#6 *
408868818	LUG TERM YSR4CFX6CFXLTCKITC #4-#6 *
408871267	CON-ACCSRY
408874196	CA ELECL-408874196 1COND 1.37795IN B 3.*
408889616	KIT-RFCH702 CA RK SITE MATERIAL (2) RUB
408894467	KIT-AFJ2402C FRWK SITE MATERIAL 5 HOLED
408895274	LUG TERM-YAZV6C2TC14FX CRIMP 0.25IN 6GA
408895290	LUG TERM-YAZV4C2TC14FX CRIMP 0.25IN 4GA*
408895316	LUG TERM-YAZV2C2TC14FX CRIMP 0.25IN 2GA*
408895399	LUG TERM-YAZ2C-2TC14 CRIMP 0.25IN 2GA N*
408895407	LUG TERM-YAZ25-2TC38 CRIMP 0.375IN 1/0 *
408895605	LUG TRM, YAZV6C2TC14E1FX,CRMP, .25 , 6GA
408895639	LUG TERM-YAZV4C2TC14E2FX CRIMP 0.25IN 4*
408895654	LUG TERM-YAZ2C-2TC38 CRIMP 0.375IN 2GA *
408895662	LUG TERM-YAZ2C-2TC14E2 CRIMP 0.25IN 2GA*
408895738	LUG TERM-YAZV2CTC14FX 2GA, 1/4 STUD *
408895795	LUG TERM-YAZV2C2TC38FX CRIMP 0.375IN 2G*
408895837	LUG TERM-YAZ25-2TC14 CRIMP 0.25IN 1/0 N*
408897619	PWR DISTN-009-8005-0404 LOW VLTG 24V 20*
408898625	KIT-FMT-VELCROKIT CA FSTNR ADC 4 STRIPS
408911378	ROD THD-TR60-06 0.625IN 78IN 6.50032FT *
408919439	STOP-283855 FIRE STL 36IN
408922029	LUG TERM-YAZ2C-2TC14E1 CRIMP 0.25IN 2GA*
408933604	FUSE DUMY-110852 0.406IN 1.5IN PLSTC EA*
408935310	STR-FBM96CB FILLER PLSTC 0.875IN 96IN B*
408935336	LUG TERM-54904BEPH STRT 10IN 6GA 6GA 0.*
408940203	MTG-7113.000 FR 70IN 2IN 0IN STL RITTAL
408941235	KIT-LWEKIT AUX SITE MATERIAL (20) ETLW *
408941250	KIT-AFC3203K AUX SITE MATERIAL (2) 6FT
408941300	KIT-SAF2606 CA RK SITE MATERIAL (4) AUX*
408941318	KIT-SAF2503 CA RK SITE MATERIAL (2) AUX*
408941755	KIT-ACB6RDG-10 CA RK CA RK (10) POWER C*
408941854	KIT-WH14K213 CA RK CA RK (13) STRAIGHT *
408941953	SPLICE INLINE YSR26FX2CFXLTCKITC 2/0-#2
408941961	SPLICE INLINE YSR25FX2CFXLTCKITC 1/0-#2

408941979	SPLICE INLINE YSR2CFX4CFXLTKITC #2-#4
408943900	WR PWR-KS24194L3 12GA 600V CPR 1COND (E*
408946606	BRKR CKT-CBB100E 100A 1 (-48)V DC TOGL
408964559	LUG TERM-YA2CL2TC38 STRT 2GA 2GA FEM CO*
408971570	FUSE-TLS100 100A 170 DC CKT PROTN NORM *
408973519	OPTICAL SPLICING MODULE 1U-24 LEFT
408981249	CONN COAX-BNC-3N-BSC 75OHM BNC PLUG MAL*
408989366	LUG TERM-YAZV6C2TC14FX90 90 DEG 0.25IN *
408991263	TOOL-C39407-A139-A12 WR WRPPG PLSTC EA0*
408991776	TAG-CTND15 WRNG 1.5IN 0.03125IN BRS RD *
408993004	LBL-408993004 INFO 3.125IN 6.5IN VINLSL*
409013851	RECTIFIER MODULE, DPS 1200B-48, PLUG IN,
409015757	BRKT-2100500130 CA STL 0.5IN 5IN 0.25IN*
409018884	LUG TERM-YAZV4C-2TC14FX90 CRIMP 0.25IN *
409029279	LUG TERM-256-30695-1148 PRES 0.25IN 6GA*
409030616	KIT-CAF2902 AUX COMMON (1) 5 BOLT (2) *
409031911	KIT-2075670810 CA RK CABLE RACK POWER C
409033446	LUG TERM-YH3931WCC CRIMP 0IN 750 MCM FE*
409033529	CON-ACCSRY
409033537	LUG TERM-YH292CWCC CRIMP 0IN 4/0 FEM CO*
409033545	LUG TERM-YH298CWCC CRIMP 0IN 4/0 FEM CO*
409033552	LUG TERM-YH2C2CWCC CRIMP 0IN 2GA FEM CO*
409033560	CON-ACCSRY
409033578	CON-ACCSRY
409033628	COV-CCFO-FR PROTV PLSTC 0IN CLR POWER
409033636	COV-CCFD-FR PROTV PLSTC 0IN CLR POWER
409035011	DUCT-FGS-MFAW-B SPLC 6IN 4IN 4IN PLSTC
409041647	SPLICE INLINE YSR25FX4CFXLTKITC 1/0-#4
409047503	LUG TERM-YA2CL2NT14 CRIMP 0.25IN 2GA FE*
409048113	LUG TERMINAL, YAZ8C-2TC10, STRAIGHT, 8 G
409048139	LUG TERM-YAZ8C-2TC14 STRT 8GA 8GA 8GA F
409048162	LUG TERM-YAZ8C-2TC38 STRT 8GA 8GA 8GA F*
409048170	LUG TERM-YAZ25-2TC14E1 STRT 0GA 0GA 1/0*
409062072	FUSE-KLM-20 20A 500 DC CRTG FST ACTG SN*
409062080	FUSE-KLM-15 15A 500 DC CRTG FST ACTG SN
409062395	DUCT-FGS-MEXP-LP-G FBR CBL 2IN 6IN 6IN *
409062494	LUG TERM-YAEV10-L36- RNG TONG 10GA 1
409063864	FRWK-11752-723 0IN STL 23IN 1.72FT 0IN *
409064235	LUG TERM-YAZ2C2TC3890 CRIMP 0.375IN 0.6
409064763	KIT-ECN3958 PKG COMMON BOX
409066859	DUCT, 027-2000-4065, FIBER CABLE, 4 IN,
409066867	DUCT, 027-1000-4066, FIBER CABLE, 4 IN,
409067303	ADPTRNONEL-0040320330 BRKT 3.5IN 12-24 *
409069879	TRUMPT FTG-FGS-MTRM-A FCMS 4IN 4IN 1IN *
409069887	DUCT-FGS-MU9E-A ELBOW 4.73IN 8.6IN 8.6I
409070224	BREAKER CIRCUIT, D0017117, 63 A, 1, 250
409072048	KIT, BATT WIRE #1, 125A, 4 AWG 10 FT *
409073400	ADPTRNONEL-0040320530 MTG RK 7IN 12-24 *
409073475	ADPTRNONEL-2086380830 MTG BRKT 8IN 12-2*
409077054	BRKR CKT-502666 100A 1 (-48)V DC TOGL P

409077856	KIT-409077856 ASSY LUCENT 408895613 - L
409079332	COV-FGS-SU9E-A DUCT PLSTC 4IN Y FIBER D*
409079340	COV-FGS-SD9E-A DUCT PLSTC 4IN Y FIBER D*
409079357	COV-FGS-SU4E-A DUCT PLSTC 4IN Y FIBER D*
409079365	COV-FGS-SD4E-A DUCT PLSTC 4IN Y FIBER D
409079431	KIT-7231 HDWR COMMON WASHERS
409084514	KIT-TTS3-153 INSTLN INSTALL 3-WAY STAND*
409085024	CA ASSY-CA4-0025-17C-T00-1 SGNL CONNZD *
409085487	KIT-409085487 HDWR COMMON (2) PHM SCREW*
409087715	LUG TERM-TN1014 CRIMP 0.25IN 12GA 10GA
409089174	SPLC-YS2CFXLTCKITC 2GA 2GA CODE OR FLX *
409089836	KIT-WH08K213 CA RK COMMON (13) 8 STRAI*
409101045	BOX-RCB981 CORRUGATED 12IN 12IN 12IN CA*
409101052	BOX-RCB303 CORRUGATED 10IN 8IN 2.25IN C*
409102035	SPLICE IN-LINE, YSR34FX26FXLTCKITC, 350*
409102043	SPLICE IN-LINE, YSR34FX2CFXLTCKITC, 350*
409102548	CONN ELEC-100021C SHLD 8CONT PRES PRES *
409105848	CNDT ELECL-5346 RGD 1-1/2 ALMN OFT
409105996	CNDT-ALC 1/2INALUM.CONDUIT RGD 1/2 ALM*
409106010	CNDT-ALC 1INALUM.CONDUIT RGD 1 ALMN 10*
409107364	PNL-DI-R2CU1 CRS CONN 19IN 6IN 10.2IN S*
409108016	ADPTR EL-82-100 COAX 1UN 0IN 0IN EA00 UL
409108099	SHLD-99028 ICE 48IN STL EA00 VALMONT IN*
409108669	KIT-R-6045L27 LBL SERVICES (1) PTL-64-4*
409108727	BATTERY TRAY 19 ELTEK VALERE 217035 *
409109238	SPLICE KIT-YSR2CFX8CFXLTCKITC #2 #8 *
409109246	SPLICE KIT-YSR4CFX10CLTCKITC #4 #10 *
409109253	SPLICE KIT-YSR4CFX8CFXLTCKITC #4 #8 *
409109261	SPLICE KIT-YSR6CFX10CLTCKITC #6 #10 *
409109287	SPLICE KIT-YSR8CFX10CLTCKITC, #8 #10 *
409109816	CLI-PAS-MM-12FT 2UN MULT 12FT STD 2UN L*
409115623	CLI-JR1MO002LCUSCU010F 2UN MULT 10FT ST*
409117108	CON-PB
409118544	KIT-R-6045L20A LBL SERVICES (1)PTLFP-01*
409122603	KIT-TK-0659L4 INSTLN SERVICES (2) ITE-7*
409122611	KIT-TK-0659L24 INSTLN SERVICES (12) ITE*
409122637	KIT-TK-0659L48 INSTLN SERVICES (24) ITE
409122645	KIT-TK-0659L101 INSTLN SERVICES (1) ITE*
409122660	KIT-TK-0659L124 INSTLN SERVICES (12) IT*
409122678	KIT-TK-0659L136 INSTLN SERVICES (18) IT*
409123254	ADPTRNONEL-0040320530 RE*
409125622	LUG-RA484, INS RING TONGUE 22-18 GA RED
601165749	CABLE STRAP, ED8C504-50 G6
601202823	RACEWAY EQUIPMENT, ED8C509-50 G6
601248404	DOOR, ED6C321-50 G3
601401433	EQUIPMENT, ED8C805-50 G7
601463813	EQUIPMENT, ED8C812-50 G21
601463839	EQUIPMENT, ED8C812-50 G23
601463847	EQUIPMENT, ED8C812-50 G24
601463995	EQUIPMENT, ED8C805-50 G10

601825250	EQUIPMENT, ED8C784-50 G23
804222990	FUSE-P422299 DUMMY
804223006	FUSE-P422300 DUMMY
814251930	FLAT WASHER, P-42E193, STEEL, 5/8
847073749	KIT-HDWR KIT #3 MOUNTING*
847079860	BOLT HEX 18.10 M6/16MM STEEL
847174901	WSHR-FLAT STEEL ST-70-14*
847755246	HARDWARE, NUMBER PLATE 145P
847891264	ASSY- ADPTR ADAPTER
848201919	KIT-HDWR M5X10MM SCREWS *
848919601	KIT- CA RK SEE DRAWING IN JMANAGER FOR *
848919742	JUNCT LOW TO HIGH AUX FRAMING
848919866	KIT- CA RK SEE DRAWING IN JMANAGER FOR *
848963625	KIT-KIT-UNISTSUPT BRKT EXTR 1 PC 106198*
849105895	KIT-849105895 FIXT SITE MATERIAL (2) CO*
849106018	KIT-849106018 FIXT SITE MATERIAL (2) CO*
900486861	TUBG-HSC700-1000 CAP
901198689	WSHR-M5 FLAT M5 5.3X10.0*
901249813	WSHR-M8 FLAT 8.4X17X1.6M*
901249821	WSHR LK-M8 HELCL SPG M8 *
901249839	NUT HEX-M8 M8 6.5X13MM F*
901263327	SCR CAP-M8X25 8 MM HEX H*
901328906	TIE-WRAP 4.5X194MM PLSTC
901350322	SCR M-.25 IN 20 TPI 1 IN*
901361287	SCREW, CAP, M5, .8 MM, 12 MM STANDARD, H
901377770	BOX- OUTLET 2.125IN 4.65625IN 1.5IN DIE*
901377838	FTG CNDT-KS5351 INSULATE*
901396416	SCR M-.216 IN 24 TPI 1/4*
995840386	SLVG-ACRYL FLEX BRD 20 1*
996238093	ELB-5252 1/2 90 DEG ELEC*
996533501	BOX OUTL-4SJD-1 4X11/16IN
997083795	CNDT ELECL-5362 1/2IN LI*
997104567	CNDT ELECL-8123 1/2IN IN*
997623723	LUG TERM-C77 STAKON 12X1*
997813621	COV-2510 RECEPTACLE
997813712	COV-8487 CNDT BOX OTHER
1AB000530001	CONNECTOR, BURNDY LOCKING LATCH
1AB002130002	CON COAX 1.6/5.6 FEM 75Ohm CRIMP silver
1AB006030063	HOUSING, SCREENED SUB-D,
1AB009720030	Male Coaxial Connector (50 Ohms)
1AB014010001	Kabel Typ 216,8m/LAN-KABEL1:1Cat6/ RJ45
1AB014410005	FUSE OTHER 15/3.1/20 10A_QUICK
1AB014410009	FUSE OTHER 15/3.1/20 7.5A_QUICK
1AB014410010	FUSE*OTHER*15A_QUICK
1AB017500057	BREAKER, 1A
1AB017500058	BREAKER 8A
1AB017500059	BREAKER 4A
1AB017500061	BREAKER, 10A
1AB017500062	BREAKER 15A
1AB017500063	BREAKER 40A

1AB017500064	BREAKER, 30A
1AB017500065	BREAKER, 2A
1AB017500066	BREAKER, 25A
1AB017500067	BREAKER, 20A
1AB017500070	CIRCUIT BREAKER 100A
1AB017500072	BREAKER, 50A
1AB017500073	BREAKER, 70A
1AB017500077	BREAKER, 80A
1AB017500078	BREAKER, 63A
1AB017500080	BREAKER, 60A
1AB017500081	BREAKER, 35A
1AB024380016	CIRCUIT BREAKER 8A S9 RACK
1AB032050003	LUG UNINS RING CRIMP M6 8AWG
1AB032050093	CABLE LUG 6/>2,5-6
1AB032050225	LUG 45deg DOUBLE HOLE 8AWG
1AB051530076	CON-LUG+FASTON-YA8CL1-BOX
1AB051530095	LUG PIN CRIMP_UNINSUL 3.72mm/3.74mm 6.35
1AB051530097	LUG*PIN*CRIMP UNINSUL*6.35mm
1AB051530098	90deg 2-hole lug: 10AWG, 1/4IN stud size
1AB051530112	LUG 2 HOLE SCREW_UNINSUL 2.82mm/2.82mm
1AB051530119	LUG PIN CRIMP_UNINSUL 7.3mm/7.4mm 7.37um
1AB054490002	LSA-PLUS Series 2 Disco 10P
1AB058580013	16A istic DC 48V DIN + 2x +svorka
1AB058580016	CIRC BREAK 10A C60H-DC 1P C
1AB064050001	CAT 6-19 P_1U PATCHPANEL_w 24 COUPL RJ45
1AB089570031	CON-OPTO-SMLC_ADAPTOR
1AB121750001	CIRCUIT BREAKER C60H 1x20A
1AB121750003	CIRCUIT BREAKER C60H 1x63A
1AB121750004	CIRCUIT BREAKER C60H 1x50A
1AB134970011	ADAPTER DB9FxRJ45
1AB155630001	SHORT JUMPER DUPLEX LC (140/155MM)
1AB156220001	SLOW EVOA SFP
1AB156410001	CON-CBLRD Connector Modular Jack/Plug
1AB162710003	CIRCUIT BREAKER 4A 72VDC
1AB162710004	CIRCUIT BREAKER 8A 72VDC
1AB162710005	CIRCUIT BREAKER 10A 72VDC
1AB162710006	CIRCUIT BREAKER 15A 72VDC
1AB162710007	CIRCUIT BREAKER 20A 72VDC
1AB162710008	CIRCUIT BREAKER 25A 72VDC
1AB162710009	CIRCUIT BREAKER 30A 72VDC
1AB162710015	CIRCUIT BREAKER 40A 72VCC
1AB169400001	CON-OPTO-SM*FC-SC-ADAPTOR
1AB182170001	PANEL 16 PORT 120 ohms-W/W WITH CABLE SC
1AB182640001	LUG TERMINAL, 1/0 STR, 1/4, HOLE, 5/8 SP
1AB185030004	CA SM DX 2.7 LC-LC 15M YL LSZH
1AB187280031	OPTO TRX SFP 1GBE LX/LX10 DDM
1AB187280033	OPTO TRX SFP 1GBE SX DDM
1AB187280040	OPTO TRX SFP 1.25GBE LX/LX10 DDM -40/+85
1AB187280042	OPTO TRX SFP 1GBE ZX DDM
1AB188030002	CA MM SX 2.0 LC-LC 3M OR

1AB194670004	OPTO TRX SFP S-1.1 DDM
1AB194670005	OPTO TRX SFP L-1.1 DDM -40/+85
1AB194670006	OPTO TRX SFP L-1.2 DDM -40/+85
1AB194670007	OPTO TRX SFP S-1.1 DDM -40/+85
1AB195070029	JUMPER LC BC FC MM 50 mic 8 m
1AB196360004	OPTO TRX SFP S-4.1 DDM
1AB196360005	OPTO TRX SFP S-4.1 DDM -40/+85
1AB196360006	OPTO TRX SFP L-4.1 DDM -40/+85
1AB196360007	OPTO TRX SFP L-4.2 DDM -40/+85
1AB196370005	OPTO TRX SFP I-16.1 DDM
1AB196370006	OPTO TRX SFP S-16.1 DDM -5/+85
1AB196370007	OPTO TRX SFP S-16.1 ANYRATE DDM
1AB196370008	OPTO TRX SFP L-16.1 DDM -5/+80
1AB196370009	OPTO TRX SFP L-16.2 DDM -5/+80
1AB196370013	OPTO TRX SFP I-16.1 DDM -40/+85
1AB202160001	CIRCUIT BREAKER C120H 1x80A 48VCC
1AB202160002	CIRCUIT BREAKER C120H 1x125A
1AB202160003	CIRCUIT BREAKER C120H 1x100A
1AB214000005	CA MM SX 1.6 LC-LC 10M YL
1AB214540001	XFP I-64.1/10GBE BASE L
1AB214710002	OPTO TRX SFP 100BASE LX -40/+85 DDM
1AB215120007	CA SM SX 2.0 LC-LC 5M YL LSZH
1AB215120009	CA SM SX 2.0 LC-LC 15M YL LSZH
1AB215120038	DUPLEX JUMPER 3.5M - NAR SM FOR INTERNAL
1AB215120039	PROTECTION Y-CABLE SPLITTER (SMF) - HORI
1AB215120040	PROTECTION Y-CABLE SPLITTER (SMF) - VERT
1AB215120042	PROTECTION Y-CABLE SPLITTER (MMF 50/125
1AB215120057	SIMPLEX JUMPER (2.350M) - NAR - SM FOR L
1AB215120058	DUPLEX JUMPER (3.5M) - NAR - MM (50UM) F
1AB215120060	DUPLEX JUMPER S.M. LC/PC-LC/PC 1.4M ETSI
1AB215120061	DUPLEX JUMPER S.M. LC/PC-LC/PC 1.4M NAR
1AB215120075	SHORT JUMPER LC (230MM)
1AB215120076	SHORT JUMPER LC (155MM)
1AB215120077	SIMPLEX JUMPER 3.5M - NAR
1AB215120079	DUPLEX JUMPER (15M) - NAR - SM
1AB215120080	DUPLEX JUMPER (10M) - NAR - SM
1AB215120081	DUPLEX JUMPER (7M) - NAR - SM
1AB215120085	SHORT JUMPER LC (120MM)
1AB215120086	SHORT JUMPER LC (215MM)
1AB215120087	SHORT JUMPER LC (185MM)
1AB215120091	SHORT JUMPER LC (165MM)
1AB215120093	SHORT JUMPER DUPLEX LC (120/135MM)
1AB215120094	OPTICAL CABLE ASSY, SM, LC-LC, 140/155MM
1AB217280001	XFP S64-2B/10GBE BASE E
1AB217280002	XFP P1L1-2D2
1AB229830003	JLCAT6 2M
1AB229830006	CABLE ASSY CAT6E S/FTP WE RJ45-RJ45 5M
1AB229830011	Kabel Typ 216,0,5m/LAN-KABEL1:1Cat6/RJ45
1AB229830012	Kabel Typ 216,25m/LAN-KABEL1:1Cat6/RJ45
1AB243210001	CIRC BREAK*100A_FAST, 10/10 GMT_DUAL FEE

1AB251130001	SENSOR*sensor-CMC-TC-access sensor*0A*1*
1AB252030001	10DB ATTENUATOR
1AB255910001	LUG 2 HOLE CRIMP_NO 7.37mm 6.35mm
1AB266440001	2 HOLE LUG M6 HOLES FOR 16MM2
1AB283380001	Cable entry panel_ 482.6 mm (19 inch)
1AB293800001	Parent CA SM-BIF SCA-LC40 RISER 1.6mm YL
1AB293800002	Parent CA SM-BIF 2F FCA-LC40 RISER 1.6mm
1AB297410012	CIRCUIT BREAKER 40A,_80VDC, MAGNETIC,_W/
1AB300680001	LUG,YA8CL-NT8,CMRSSN_NO 8 WIRE 1 HOLE
1AB304630001	LUG, 2AWG LONG BARREL_2HOLE 1/4 STUD
1AB310140001	SFP FE/ FDDI 100BASE-T EL W/EXT TEMP
1AB310800001	LUG 2H 1/4IN STUD, 5/8IN, NARROW, 2AWG
1AB311640003	LUG 4AWG 2HOLE Stud Hole 1/4in CC 5/8in
1AB324570004	FUSE*KNIFE*NH1*100A_MEDIUM
1AB348170014	CA MM SX 2.4 LC-LC 15M OR
1AB349800001	Parent CA SM-BIF 2F LCU40-LCU,ONFR 1.6mm
1AB349820001	OPTO-CABLE-ASSY SM_LC/UPC SC/UPC
1AB349840001	CA 1F, Red Jacket, Indoor
1AB352700004	CA-AC POWER SUPPLY-NORTH AMERICA (LZSH/-
1AB352700007	AC POWER CABLE, AUS PSI
1AB352700008	CA-AC PWR SUPPLY CABLE NAR (PSS-16II)
1AB352700009	CA-AC PWR SUPPLY CBL AUS (PSS-16II)
1AB352700010	CA-AC PWR SUPPLY CBL UK/IRLND (PSS16II)
1AB352700011	CA-AC PWR SPLY CBL CNTRL EUR (PSS16II)
1AB352700012	CA-AC PWR SUPPLY C19-C20 16A(PSS-16II)
1AB352700013	CA-AC PWR SUPPLY C13-C14 (PSS-8)
1AB353260001	4PR/24AWG CAT5E SINGLE END RJ45 SHLD OE
1AB356630001	OE-TRX XFP DWDM CH60
1AB356630002	OE-TRX XFP DWDM CH59
1AB356630003	OE-TRX XFP DWDM CH58
1AB356630004	OE-TRX XFP DWDM CH57
1AB356630005	OE-TRX XFP DWDM CH56
1AB356630006	OE-TRX XFP DWDM CH55
1AB356630007	OE-TRX XFP DWDM CH54
1AB356630008	OE-TRX XFP DWDM CH53
1AB356630009	OE-TRX XFP DWDM CH52
1AB356630010	OE-TRX XFP DWDM CH51
1AB356630011	OE-TRX XFP DWDM CH50
1AB356630012	OE-TRX XFP DWDM CH49
1AB356630013	OE-TRX XFP DWDM CH48
1AB356630014	OE-TRX XFP DWDM CH47
1AB356630015	OE-TRX XFP DWDM CH46
1AB356630016	OE-TRX XFP DWDM CH45
1AB356630017	OE-TRX XFP DWDM CH44
1AB356630018	OE-TRX XFP DWDM CH43
1AB356630019	OE-TRX XFP DWDM CH42
1AB356630020	OE-TRX XFP DWDM CH41
1AB356630021	OE-TRX XFP DWDM CH40
1AB356630022	OE-TRX XFP DWDM CH39
1AB356630023	OE-TRX XFP DWDM CH38

1AB356630024	OE-TRX XFP DWDM CH37
1AB356630025	OE-TRX XFP DWDM CH36
1AB356630026	OE-TRX XFP DWDM CH35
1AB356630027	OE-TRX XFP DWDM CH34
1AB356630028	OE-TRX XFP DWDM CH33
1AB356630029	OE-TRX XFP DWDM CH32
1AB356630030	OE-TRX XFP DWDM CH31
1AB356630031	OE-TRX XFP DWDM CH30
1AB356630032	OE-TRX XFP DWDM CH29
1AB356630033	OE-TRX XFP DWDM CH28
1AB356630034	OE-TRX XFP DWDM CH27
1AB356630035	OE-TRX XFP DWDM CH26
1AB356630036	OE-TRX XFP DWDM CH25
1AB356630037	OE-TRX XFP DWDM CH24
1AB356630038	OE-TRX XFP DWDM CH23
1AB356630039	OE-TRX XFP DWDM CH22
1AB356630040	OE-TRX XFP DWDM CH21
1AB356630041	OE-TRX XFP DWDM CH20
1AB356630042	OE-TRX XFP DWDM CH19
1AB356630043	OE-TRX XFP DWDM CH18
1AB356630044	OE-TRX XFP DWDM CH17
1AB357990001	OE-TRX SFP 100B FX
1AB359780001	EL TRX SFP 1000BASE-T
1AB359780002	EL TRX SFP 10/100/1000BASE-T -40/+85
1AB359780003	EL TRX SFP 10/100/1000BASE-T -40/+85 B
1AB371240001	8DB ATTENUATOR
1AB371250001	4DB ATTENUATOR
1AB371250002	2DB ATTENUATOR
1AB371250003	6DB ATTENUATOR
1AB371250004	12DB ATTENUATOR
1AB371250005	14DB ATTENUATOR
1AB371250006	1DB ATTENUATOR
1AB371250007	3DB ATTENUATOR
1AB371250008	5DB ATTENUATOR
1AB371250009	7DB ATTENUATOR
1AB371250010	9DB ATTENUATOR
1AB373110001	OE-TRX SFP CWDM PIN CH51 B_SFPMULTIRATE
1AB373120001	OE-TRX SFP CWDM APD CH51 B_SFPMULTIRATE
1AB373120002	OC3/STM1 APD ULH SFP 1510NM
1AB375380003	XFP S-64.2B/10GBE BASE-E
1AB375380004	XFP P1L1-2D2/10GBE BASE-Z
1AB375380005	XFP S-64-2B/10GBE BASE-E -40/+85
1AB375380007	XFP I-64.1/10GBE BASE-L -40/+85
1AB375380008	XFP P1L1-2D2/10GBE BASE-Z -5/+85
1AB375380009	XFP I-64.1/10GBE BASE-L/10G FC/8.5G FC -
1AB376350001	SFP S-1.1 -40/+85
1AB376350002	SFP L-1.1 -40/+85
1AB376350003	SFP L-1.2 -40/+85
1AB376360001	SFP S-4.1 -40/+85
1AB376360002	SFP L-4.1 -40/+85

1AB376360003	SFP L-4.2 -40/+85
1AB376370001	SFP I-16.1 -40/+85
1AB376370002	SFP S-16.1 -5/+85
1AB376370003	SFP L-16.1 -5/+85
1AB376370004	SFP L-16.2 -5/+85
1AB376370005	SFP S-16.1 ANY RATE -40/+85
1AB376370007	SFP L-16.1 -40/+85 HARDENED
1AB376370008	SFP L-16.2 -40/+85
1AB376720001	SFP GBE SX -40/+85
1AB376720002	SFP GBE LX/LX10 -40/+85
1AB376720003	SFP GBE ZX -40/+85
1AB376720004	SFP 1GBE EZX -40/+85
1AB376720006	SFP GBE VX -40/+85 (1310NM)
1AB377160001	SFP CWDM SH 1471NM
1AB377160002	SFP CWDM SH 1491NM
1AB377160003	SFP CWDM SH 1511NM
1AB377160004	SFP CWDM SH 1531NM
1AB377160005	SFP CWDM SH 1551NM
1AB377160006	SFP CWDM SH 1571NM
1AB377160007	SFP CWDM SH 1591NM
1AB377160008	SFP CWDM SH 1611M
1AB377200009	SFP CWDM LH 1471 NM -40/+85
1AB377200010	SFP CWDM LH 1491 NM -40/+85
1AB377200011	SFP CWDM LH 1511 NM -40/+85
1AB377200012	SFP CWDM LH 1531 NM -40/+85
1AB377200013	SFP CWDM LH 1551 NM -40/+85
1AB377200014	SFP CWDM LH 1571 NM -40/+85
1AB377200015	SFP CWDM LH 1591 NM -40/+85
1AB377200016	SFP CWDM LH 1611 NM -40/+85
1AB378370001	XFP CWDM-LH 1471NM
1AB378370002	XFP CWDM-LH 1491NM
1AB378370003	XFP CWDM-LH 1511NM
1AB378370004	XFP CWDM-LH 1531NM
1AB378370005	XFP CWDM-LH 1551NM
1AB378370006	XFP CWDM-LH 1571NM
1AB378370007	XFP CWDM-LH 1591NM
1AB378370008	XFP CWDM-LH 1611NM
1AB378370009	XFP CWDM-LH 1471NM (-40/85)
1AB378370010	XFP CWDM-LH 1491NM (-40/85)
1AB378370011	XFP CWDM-LH 1511NM (-40/85)
1AB378370012	XFP CWDM-LH 1531NM (-40/85)
1AB378370013	XFP CWDM-LH 1551NM (-40/85)
1AB378370014	XFP CWDM-LH 1571NM (-40/85)
1AB378370015	XFP CWDM-LH 1591NM (-40/85)
1AB378370016	XFP CWDM-LH 1611NM (-40/85)
1AB379240001	XFP CWDM-SH 1471NM
1AB379240002	XFP CWDM-SH 1491NM
1AB379240003	XFP CWDM-SH 1511NM
1AB379240004	XFP CWDM-SH 1531NM
1AB379240005	XFP CWDM-SH 1551NM

1AB379240006	XFP CWDM-SH 1571NM
1AB379240007	XFP CWDM-SH 1591NM
1AB379240008	XFP CWDM-SH 1611NM
1AB379240009	XFP CWDM (40KM) 10G DDM 1471NM (-40/85)
1AB379240010	XFP CWDM (40KM) 10G DDM 1491NM (-40/85)
1AB379240011	XFP CWDM (40KM) 10G DDM 1511NM (-40/85)
1AB379240012	XFP CWDM (40KM) 10G DDM 1531NM (-40/85)
1AB379240013	XFP CWDM (40KM) 10G DDM 1551NM (-40/85)
1AB379580001	LUG 2 HOLE CRIMP_UNINSUL 6.54mm/6.54mm
1AB379640001	SFP FC/2FC/4FC 850NM
1AB382180001	SFP FE 100BASE-LX -40/+85
1AB390930002	SFP+ 10GBASE-LR/10G FC 10KM SMF -5/+85
1AB390930004	SFP+ 10GBASE-SR/10G FC MMF -5/+85
1AB390930007	SFP+ 2/4/8G FC 10KM SMF IB SDR/DDR -5/+8
1AB390930009	SFP+ 4/8/16G FC 10KM SMF -5/+85
1AB390930010	SFP+ 4/8/16G FC MMF -5/+85
1AB390930013	SFP+ P111-2D1/SR1/10GBASE-LR(W)/10XFC SM
1AB390930014	SFP+ STM-64/OC192 ITU-T S-64.2B/ IR-2/10
1AB392040002	QSFP+ 40GBASE-LR4 -5/70
1AB392210001	Parent CA SM-BIF 2F SCU-LCU 250/250mm
1AB393080005	SFP 1000BX / STM-4 20KM UPSTREAM
1AB393080006	SFP 1000BX / STM-4 20KM DOWNSTREAM
1AB393080007	SFP 1000BX/ FE 40KM-UPSTREAM
1AB393080008	SFP 1000BX/ FE 40KM-DOWNSTREAM
1AB393080009	SFP 1000BX / STM-4 40KM UPSTREAM
1AB393080010	SFP 1000BX / STM-4 40KM DOWNSTREAM
1AB393080015	SFP OC-48/STM-16 15KM UPSTREAM
1AB393080016	SFP OC-48/STM-16 15KM DOWNSTREAM
1AB393080019	SFP OC-48/STM-16 40KM UPSTREAM
1AB393080020	SFP OC-48/STM-16 40KM DOWNSTREAM
1AB402160001	CFP 100G (4X25G) 100G BASE LR4/100G OTU4
1AB402160022	CFP LR4 (4X25GBS) 1310NM
1AB405070001	DS1 20 port Cross Connect panel
1AB423830001	ADAPTER RJ45_CAT6_KEYSTONE
1AB424150007	CABLE CAT5E_PLENUM RJ45/RJ45_SHLD 150FT
1AB426470001	CFP2 100G BASE-LR4 (4X25G) SINGLE RATE 1
1AB427960001	Parent CA SM-BIF 24F LC-LC 250/250mm BO
1AB428190004	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 2 m
1AB428190006	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 3 m
1AB428190008	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 5.5 m
1AB428190009	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 10 m
1AB428190010	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 15 m
1AB428190011	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 20 m
1AB428190013	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 30 m
1AB428190015	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 40 m
1AB430900001	Ground Busbar Kit, UL, 2x12in Cu w 12x0.
1AB432400004	CA MM SX 2.0 LCU_SB-LCU_SB 2M AQ LSZH
1AB441420001	2 Hole Lug w/Window, 4 Flex, 3/8in Stud
1AB441641045	Parent CA SM-BIF 8F LCU_SB-SCU_SB 36/36I
1AB441641104	Parent CA SM-BIF 1F LCU_SB/LCU_SB, Int O

1AB441641106	Parent CA SM-BIF 1F LCU_SB/SCU_SB, Int O
1AB441641122	Parent CA SM-BIF 2F SCU_SB/SCU_SB, Int O
1AB441641134	Parent CA SM-BIF 2F LCU_SB-LCU_SB 36/36I
1AB441641135	Parent CA SM-BIF 2F LCU_SB-SCU_SB 36/36I
1AB441641170	Parent CA SM-BIF 2F LCU_SB-STU 72/108IN
1AB441810003	Parent CA SM-BIF 2F LCU_SB-SCU_SB 6/9FT
1AB445430001	70A Standard-Trip Circuit Breaker 118161
1AB448430001	Parent CA MM-BIF 12F LCU-LCU, 24/24in BO
1AB450360001	LUG DISCONNECT FEM CRIMP_YELLOW 620um/88
1AB457780002	Parent CA SM-BIF 2F LCU_SB-SCA, Int OFNR
1AB457780003	Parent CA SM-BIF 2F LCA-LCU_SB, Int OFNR
1AB461630001	Parent CA MM-BIF 2F LCU40-LCU, OFNP 2.0m
1AB461630002	Parent CA MM-BIF 2F LCU40-SCU, OFNP
1AB463340001	AC POWER CORD, US PSI
1AB463340002	AC POWER CORD, EURO PSI
1AB469590001	CONNECTOR, RCPT ASSY, 64 POS, C SLOT (CH
1AB470360001	CABLE LAN FTP CAT5e RJ45 10M BK INDOOR
1AB472790001	MODULAR ADAPTER, DB25(M) to RJ45,8P8C,GY
1AB474280001	CA-MPT OM4 OPTICAL JUMPER CABLE 3.0M
1AB474800002	QSFP28 100GBASE-LR4/OTU4 SMF 10KM
1AB474800003	QSFP28 100GBASE-LR4 SMF 10KM
1AB474800004	QSFP28 100GBASE-SR4 MMF 100M
1AB474800005	QSFP28 100GBASE-SR4/OTU4 MMF 100M
1AB474800006	QSFP+ 40GBASE-SR4 MMF 100/150M
1AB474800007	QSFP+ 40GBASE-LR4 SMF 10KM
1AB474800008	SFP+ 10GBASE-SR 850NM MMF
1AB474800009	SFP+ 10GBASE-LR 1310NM SMF 10KM
1AB474800010	SFP+ 11.3GB/S MULTIRATE 1310NM SMF 10KM
1AB474800011	SFP+ 11.3GB/S MULTIRATE 1550NM SMF 40KM
1AB474800012	SFP+ 11.3GB/S MULTIRATE 1550NM SMF 80KM
1AB474800013	SFP+ 2/4/8G FC 850NM MMF 50/150M
1AB474800014	SFP+ 2/4/8G FC 1310NM SMF 10KM
1AB474800015	SFP+ 4/8/16G FC 850NM MMF
1AB474800016	SFP+ 4/8/16G FC 1310NM SMF 10KM
1AB474800017	XFP 10GBASE-SR 850NM MMF 300M
1AB474800018	XFP 10GB/S MULTIRATE 1310NM SMF 10KM
1AB474800019	XFP TUNABLE DWDM UP TO 11.3GB/S SMF 80KM
1AB474800020	XFP 10GB/S MULTIRATE 1550NM SMF 40KM
1AB474800021	XFP OC192/STM64:P1L1-2D2/10GBASE-Z 80KM
1AB474800022	SFP 1000BASE-SX+1/2G FC 850NM MMF
1AB474800023	SFP 1/2/4G FC 850NM MMF
1AB474800024	SFP 10/1000BASE-T COPPER 100M RJ45
1AB474800025	SFP OC12-IR1/S.4-1 1310NM SMF 20KM
1AB474800026	SFP 100/1000BASE-LX 1310NM SMF 10KM
1AB474800027	SFP OC48-SR/I-16.1 1310NM SMF 2KM
1AB474800028	SFP OSC CWDM OC3/STM1/FE 1510NM SMF 40KM
1AB474800029	SFP OSC CWDM OC3/STM1/FE 1510NM SMF 80KM
1AB474800030	SFP OSC CWDM OC3/STM1/FE 1510NM SMF140KM
1AB474800031	SFP OSC CWDM OC3/STM1/FE 1510NM SMF 47DB
1AB474800033	SFP+ 8/16/32G FC 850NM MMF 70/150M

1AB474800034	SFP+ 8/16/32G FC 1310NM SMF 10KM
1AB474800035	QSFP28 100GBASE ER4LITE/OTU4 SMF 30/40KM
1AB474800036	CFP2 ACO 100G/200G DUAL FIBER ENH PERF
1AB474800037	QSFP28 100GE CWDM4 SMF 2KM
1AB474800038	QSFP+ 4x10GBASE-LR4 MPO SMF 10KM
1AB474800043	SFP+ TUNABLE WDM_UP TO 11.3GB/S SMF 80KM
1AB474810001	Lug, 4AWG 2-Hole 90 Degree, 1/2in stud,
1AB476510005	CIRCUIT_BREAKER 80 VDC 25A 1P
1AB476510006	CIRCUIT_BREAKER 80 VDC 40A 1P
1AB476510007	CIRCUIT_BREAKER 80 VDC 50A 1P
1AB477450001	CA SM SX 1.6 LCU40-LCU40 1M BL INDOOR
1AB477460001	CA SM SX 1.6 LCU40-LCU40 0.5M BL INDOOR
1AB478800001	CA-C AND L BAND(C/L)FILTER Y-CABLE
1AB478810001	RED & BLUE (R/B) FILTER Y-CABLE
1AB478930001	OPTO-SPLITTER SIMPLEX Y-CABLE
1AB478950001	1627 DUPLEX FILTER CABLE
1AB478960001	OPTO-SPLITTER 3DB DUPLEX Y-CABLE
1AB484530001	CB LELK1-1RS4-30452-80 BULLET TYPE WHITE
1AB490110001	CA MM 12F 3.0 MPO-MPO 10M AQ PVC OM4 BIF
1AB490110010	CA MM 12F 3.0 MPO-MPO 20M AQ PVC OM4 IN
1AB490110011	CA MM 12F 3.0 MPO-MPO 15M AQ PVC OM4 IN
1AB490110012	CA SM 24F 3.6 MPO-MPO 100M YL PVC INDOOR
1AB490110013	CA SM 24F 3.6 MPO-MPO 90M YL PVC INDOOR
1AB490110014	CA SM 24F 3.6 MPO-MPO 80M YL PVC INDOOR
1AB490110015	CA SM 24F 3.6 MPO-MPO 70M YL PVC INDOOR
1AB490110016	CA SM 24F 3.6 MPO-MPO 60M YL PVC INDOOR
1AB490110017	CA SM 24F 3.6 MPO-MPO 50M YL PVC INDOOR
1AB490110018	CA SM 24F 3.6 MPO-MPO 30M YL PVC INDOOR
1AB490110019	CA SM 24F 3.6 MPO-MPO 20M YL PVC INDOOR
1AB490110020	CA SM 24F 3.6 MPO-MPO 15M YL PVC INDOOR
1AB490110021	CA SM 24F 3.6 MPO-MPO 10M YL PVC INDOOR
1AB490110022	CA SM 24F 3.6 MPO-MPO 40M YL PVC INDOOR
1AB490110030	CA SM 12F 3.0 MPO-MPO 30M YL PVC OS2 BIF
1AB490110031	CA SM 12F 3.0 MPO-MPO 20M YL PVC OS2 BIF
1AB490110033	CA MM B 12F 3.0 MPO-MPO 100M AQ PVC OM4
1AB490110035	CA MM B 12F 3.0 MPO-MPO 80M AQ PVC OM4
1AB490110036	CA MM B 12F 3.0 MPO-MPO 60M AQ PVC OM4
1AB490110037	CA MM B 12F 3.0 MPO-MPO 70M AQ PVC OM4
1AB490110038	CA MM B 12F 3.0 MPO-MPO 50M AQ PVC OM4
1AB490110039	CA MM B 12F 3.0 MPO-MPO 40M AQ PVC OM4
1AB490110040	CA MM B 12F 3.0 MPO-MPO 30M AQ PVC OM4
1AB490110041	CA MM B 12F 3.0 MPO-MPO 2M AQ PVC OM4 IN
1AB490110042	CA MM B 12F 3.0 MPO-MPO 3FT AQ PVC OM4 I
1AB490110043	CA SM A 12F 3.0 2xMPO_A_F 2M YL PVC OS2
1AB490110044	CA SM A 12F 3.0 2xMPO_A_F 1M YL PVC OS2
1AB490110045	CA MM B 12F 3.0 MPO-MPO 1M AQ PVC OM4 IN
1AB490950001	Lug 8AWG 5/16 RED ONE HOLE
1AB493500001	RJ45 PLUG BUNDLED CAT.5E CABLE 10FT
1AB495100001	Silver Plated Wire Contacts, 1/0 AWG
1AB496410001	CA 3.0 12PAIR 22AWG 6RJ45-UN 50FT

1AB496420001	CA 3.0 12PAIR 22AWG 6RJ45-UN 25FT
1AB496430001	CA 3.0 12PAIR 22AWG 6RJ45-UN 10FT
1AB496440001	CA 3.0 12PAIR 22AWG 6RJ45-UN 5FT
1AB497050001	Trimm Inc 60 Circuit breaker p/n 0300177
1AB498080001	Lug 2AWG, 2-Hole 0.25IN Narrow
1AB498520001	100A CONNECTOR 6-10 AWG
1AB499880001	DAC 1m, 25G SFP28 to 25G SFP28 30AWG PVC
1AB501310001	AC power cord-Saf-d-Grid to L6-20, 3mtrs
1AB502380001	Lug 2AWG Class I, 1/4IN stud x 1IN O.C.
1AB502470001	Fuse 12A GMT 102287
1AB503020001	Lug 2 Hole w/Window 1/0 Flex 1/4in Stud
1AB505050001	Single Pole Breaker 70A
1AB505430001	CA SM DX 1.6 LCU40-LCU40 10M YL LSZH G65
1AB505440001	CA SM SX 1.6 LCU_SB-LCU_SB 0.155M YL LSZ
1AB505450001	CA SM SX 1.6 LCU_SB-LCU_SB 0.23M YL LSZH
1AB505460001	CA SM DX 1.6 LCU40-LCU40 7M YL LSZH G652
1AB505470001	CA SM DX 1.6 LCU40-LCU40 3.50M YL LSZH G
1AB505480001	CA SM SX 1.6 LCU40-LCU40 2.35M YL LSZH G
1AB505490001	CA SM SX 1.6 LCA40-LCA40 0.61M YL LSZH G
1AC000570003	PLASTICS IRTS POLYOLEFIN_BLACK 3/8 NONE
1AC000570008	19mm heat shrinkable tubing black
1AC000570009	PLASTICS IRTS POLYOLEFIN POLYOLEFIN-BLAC
1AC001060074	CBL00849580000000 CBL 1C FLEX 10MM2 V-AM
1AC014910013	CA SHIELD 13PR 26AWG SOLID CONDUCTR,LSZH
1AC016760003	CABLE 4 PAIR SHIELDED
1AC020900002	PWR WIRE, 1/0 STR, CLASS I BLUE, BRAIDE
1AC021080001	PWR WIRE, 40011, 4 STR, KS24194 L4, CLAS
1AC021650001	PWR WIRE, 40038, 350 STR, TELCOFLEX IV K
1AC021830001	PWR WIRE, 40014, 2 STR, KS24194 L4, CLAS
1AC025770001	HEAT SHRINK TBG RNF-100-1/4-CL-STK, CLEA
1AC025860001	PWR WIRE, 39772, 4 STR, CLASS I GRAY, B
1AC028080001	PWR WIRE, 40021, 1/0 STR, CLASS I RED,
1AC040000001	Cat 6 4-pair UTP Cable_Grey 305Meters
1AC045350001	TUBE, R-6189, Quikrete_8620-13, 5.5oz co
1AC049130001	PWR WIRE,40009,4 STR,CLASS I RED,BRAIDED
1AC053320001	PWR CBL 450/750V 1x10mm2 TH/LSZH GN/YW
1AC054190002	Optical Cable: 24 Fiber, G.657A.2 O/I SM
1AC055600001	Child FO Cbl SM-BIF 2F Int OFNR/LSZH Zip
1AC055610001	Child FO Cbl SM-BIF 1F Int OFNR/LSZH 1.6
1AC056420001	Child FO Cbl MM-BIF 12F BB OFNR Breakout
1AC057971002	Child FO Cable SM-BIF 8F Backbone OFNR
1AC057971014	Child FO Cable SM-BIF 2F Backbone OFNR B
1AC057971015	Child FO Cable SM-BIF 1F Backbone OFNR/L
1AC058090001	Child FO Cable MM-BIF 2F OFNP 2.0mm AQ I
1AD001970043	NUT*HEX*HEX-HD-M10*8.22MM-SS(A2-70)*PASS
1AD005740037	LABEL 35x31,75x0,045mm
1AD008610003	1/2 SLOT SCREWDRIVER (LONG)
1AD013890004	NUT/MISC-M 6,000L
1AD018570007	O.F. STORAGE TRAY LEFT
1AD031630001	HPUL RAIL 4U 19inch /21inch

1AD035260002	FIBER ADAPTER PATCH PANEL
1AD039480001	BUSBAR CONNECTION TERMINAL ABB ZK 154
1AD057870002	4x4 Dual 2 inch Flex Tube Att-FGS-KT03-A
1AD058550001	Horizontal T-part FGS-MHTA-C
1AD082730009	OPTICAL SPLICING MODULE_MOB24 LC/LC_LEFT
1AD086000001	Packing ECN3965 TAPE AND DISPENSER KIT C
1AD087020001	Patchfeld (4HE)*120 SC Duplexkupplungen
1AD087030001	Patchfeld (1HE)*120 Port SC Kupplungen
1AD087190001	cable bracket 1HE 100mm
1AD087370007	Label Kit, R-6045-L14A,_ATT MSP Job/Ord
1AD088510001	FGS-HNTR-1/2 inch Support Kit
1AD088630001	SNAP-ON COVER 904X6
1AD093020001	Plastic part DUCT EXPRESS EXIT PLASTIC_D
1AD093280001	KIT-JUMPER BAR FOR PDU1B/2B
1AD093360001	Mech part 19IN TOWEL BAR STEEL_TOWEL BAR
1AD093650001	BRACKETS KIT SX/DX 5U 19
1AD094650001	BREAKER TOGGLE
1AD101930001	CRIMPING Use According to HEX
1AD111260001	(SUB)RACK NAKED 19INCH >-INDOOR 23/19INx
1AD112400001	FIDT4X4BL organizador interno canaleta
1AD120030001	Plastic part SHRINK TUBING, RED, 22AWG p
1AD123540001	ADAPTOR CABLE 2X32P_CONN TO 3X24P
1AD127290001	Strut End cap - MEK grey, 1 BOX of 50 EA
1AD135630001	Plate 2U 19 for-4 batteries 151x65x99
1AD140520001	Unistrut 1/2-13_Spring Nut P4010
1AD144210001	FO Duct, E2X2YL6, Yellow FO Protective D
1AD145990001	STORAGE STRAY 48FO 1U R/L 19P/ETSI
1AD147550001	BANDEAU ENERGIE_TRU 19P MSB_4644
1AD151800001	Plastic part DUCT COUPLING ADAPTER, 4IN,
1AD151930001	FIBER STORAGE TRAY (2U)
1AD151940001	ATTENUATION DRAWER (1U)
1AD155410001	48 VDC fan_w/ CMC monitoring_800x800
1AD155420001	48 VDC fan_w/ CMC monitoring_WxD 600x800
1AD155430001	48 VDC fan_w/ CMC monitoring_600x600
1AD164700001	KIT, CABLE GUIDE ASSY,_CGA05775, CABLE G
1AD168270001	Plastic part TUBING, 7/8X50FT, YELLOW, S
1AD173520001	Kit of 50 M6 Screws and 50 Cage Nuts
1AD173640001	BRL Cushion BC141X 1-5/8",10@0.24",10p
1AD173900001	LABEL for 3mm DUPLEX FIBER - WHITE
1AD174570001	Horizontal Rack Ground_Bar Kit
1AD176260001	1 Inch Schedule 40 Steel_Pipe (Dark Gray
1AD205740002	2232060045 Newton ALU 7950 BLACK seismic
1AD207260001	12-24x3/4 PHILLIPS HEAD MACHINE SCREW
1AD207270001	12-24x3/8 PHILLIPS HEAD MACHINE SCREW
1AD207280001	FGS-KTW2-R: FGS VERT DUCT KIT 2W X 4H YE
1AD212160001	Mech part Ty-Rap Saddle Support Mounting
1AD215810002	224541009Q Newton Cabinet XRS-20e WHITE
1AD215810005	222279019Q Newton 4in WHITE Vertical Cab
1AD217030001	12-24x1.00 PH SCREW
1AD218070001	2 Post Rack Shelf- 13in Vented Flanges D

1AF06266AAAA	TAG, 145PTAG, Burndy, Flame Ret Nylon, 9
1AF06632AAAA	PWR SPARE/ACCESSORY_BLIND PANEL, 236408
1AF06812AAAA	RECTIFIER, 100.7670.4825, DOUBLE FUSED,
1AF07283AAAA	Rectifier Module APR48-3G 48V 1800W
1AF07284AAAA	OPTICAL SPLICING MODU_MOB24 SC/APC_RIGHT
1AF07336AAAA	POWER DISTRIBUTION UNIT - NAR
1AF07337AAAA	POWER DISTRIBUTION UNIT - NAR - 4-I,12-O
1AF07716AAAA	Install Mat DUCT_4x4 horizontal T_Snap-o
1AF07717AAAA	Install Mat DUCT_4x4 90 horizontal_elbow
1AF09631AHAA	JF11-0015A,48240V4U25AR0325A,125AH,19in
1AF09782AAAA	PHB SR30A-0048/09, COMPOSED OF
1AF09888AAAA	ADVA_150CC-584 Unit_AC power cord left a
1AF10504AAAA	BAT_12V_7.2Ah_FG20722_PB
1AF10889AAAA	POWER DISTRIBUTION UNIT - NAR (12 INPUT,
1AF17969AAAA	THERMAL TRANSFER PRINTABLE TRANSLUCENT V
1AF20293AAAA	Install Mat Z INST ACCESSORIES CUST PJ_C
1AF20294AAAA	Drop Attachment 4X4 Channel Telect
1AF20353AAAA	Trax (4) dual split tube adapter, 027-20
1AF20354AAAA	Install Mat Z INST ACCESSORIES CUST PJ_i
1AF20600AAAA	Hose 2 in Telect
1AF21890AAAA	FLATPACK2_48-60/2000_RECT MODULE
1AF23256AAAA	FRSPJC24YL Cover for Spill-Over Junction
1AF23377AAAA	Horizontal Cable Manager Front 1RU 19
1AF25240AAAA	SD-SDI/HD-SDI/3G-SDI ELECTRICAL SFP
1AF26722AAAA	Eltek Flatpack S 48/1000HE
1AF28732AAAA	Flatpack S 48/1800 HE
1AF28741AAAA	50KVA inverter 230VAC
1AF29759AAAA	KoldLok Integral Raised Floor Grommet, P
1AF30508AAAA	FPX-1FR000-000 Panel, 1RU, 19in, putty w
1AF30787AAAA	AC POWER SUPPLY PSI-M
1AF30788AAAA	DC POWER SUPPLY PSI-M
1AF31252AAAA	Major Accounts - Wireline Label Kit
1AF31253AAAA	Major Accounts - Wireline Ribbon Kit
1AF31339AAAA	Saddle nut MQA-F 1/2in, 377886, box 50pc
1AF31645AAAA	HIGH VOLTAGE DC POWER SUPPLY PSI-M
1AF31854AAAA	ODF_FMT Fiber Storage Panel 1ru, 19in
1AF32252AAAA	Vertical duct, 1IN GRAY, 6FT
1AF32253AAAA	Vertical duct cover, 1IN, 6FT
1AF32744AAAA	6ft AC power cable C13 to C14 10A 18AWG
1AF32769AAAA	6ft AC power cable C13 to C14 13A 16AWG
1AF32856AAAA	Rectiverter 230/48 Module 2kW
1AF32977AAAA	Inverter 2000 for IXR-X1/Xs
1AF40919AAAA	kit de tierra- feeder / 7/8
1AH03594AAAA	SW_ROYALTIES_Network Mgmnt - Application
1AK03660AAAA	HP 2m Multi-mode OM3 LC/LC FC Cable
1AK09874AAAA	HP 58x0AF Bck(pwr)-Frt(ports) Fan Tray
1AK10867AAAA	HPE 32GB 2Rx4 PC4-2400T-R Kit
1AK11052AAAA	HPE 12Gb DL380 Gen9 SAS Expander Card
1AK14865AAAA	HPE 300GB SAS 10K SFF SC DS HDD
1AK17711AAAA	ANTENNA KITS (10M) FOR GNSS SFP MODULE

1AK17712AAAA	CA-ANTENNA CABLE (60M) FOR GNSS SFP MODU
1AK22172AAAA	Nokia-Complete ION KIT
21103140AAEA	PLUG-IN CABLE, CA 24RU02
21103140AAFA	PLUG-IN CABLE, CA 24RU02
21103140AAGA	PLUG-IN CABLE, CA 24RU02
21119963AABA	PLUG ASSEMBLY PLA-JMP05
21119963AACA	U-PLUG JMP05
3AG33109AC	BLANK PLATE,1830 PSS-36/64,FULL SLOT
3AG33109ACAA	BLANK PLATE, FULL SLOT
3AG33173AAAA	BLANK PLATE
3AG33233AA	HIGH POWER CONN, FUSE & ALARM PANEL
3AG33233AAXX	HIGH POWER CONN, FUSE AND ALARM PANEL
3AG33543ABAA	PSS-64/36 DIRECT SHIPMENT EXTRA TEMPERATURE
3AG33543ADAA	PSS-64/36 DIR SHIPM. EXTRA TEST DURATION
3AG33544AAAA	PSS-64/36 FAT STANDARD
3AG33545ACAA	ESWL-RTU LIC 1830PSS APPLICATION OCS
3AG33545ADAA	ESWL-RTU LIC 1830PSS APPLICATION GMPLS
3AG33545AFAA	ESWL 1830PSS APPLICATION OTN GMPLS N-E
3AG33589AA	DUST FILTER
3AG33589AAAA	DUST FILTER
3AG33657AA	RACK ALARM UNIT
3AG33657AAAA	RACK ALARM UNIT
3AG33682AAXX	SENSOR KIT PRESSURE
3AG33752AA	PLUG KIT, XFP DUMMY
3AG33752AAAA	PLUG KIT, XFP DUMMY
3AG34592AAAA	SWP 1830PSS-OCS R9.1.0
3AG34593AAAA	SWPL 1830PSS-OCS R9.1.0
3AG34739AAAA	SWP 1830PSS-OCS R13.0.4
3AL35074AA	CIRCUIT BREAKER MODULE (2CB/80A OR 1CB/1
3AL35084AA	ONETRU FRAME
3AL35096AC	INPUT LINE LUG KIT AWG4 (PER LINE)
3AL35096AD	INPUT LINE LUG KIT AWG6 (PER LINE)
3AL35096AE	INPUT LINE LUG KIT AWG8 (PER LINE)
3AL35096AF	INPUT LINE LUG KIT AWG10 TO 14(PER LINE)
3AL35098BA	CIRCUIT BREAKER W/ AUX CONTACT (100A)
3AL35098BC	ONETRU CIRCUIT BREAKER W/ AUX CONTACT (4
3AL35098BE	ONETRU CIRCUIT BREAKER W/ AUX CONTACT (1
3AL35098BF	ONETRU CIRCUIT BREAKER W/ AUX CONTACT (1
3AL35098BH	ONETRU CIRCUIT BREAKER W/ AUX CONTACT (2
3AL35098BJ	ONETRU CIRCUIT BREAKER W/ AUX CONTACT (1
3AL35098BK	ONETRU CIRCUIT BREAKER W/ AUX CONTACT (3
3AL35098BL	ONETRU CIRCUIT BREAKER W/ AUX CONTACT (4
3AL35098BN	ONETRU CIRCUIT BREAKER W/ AUX CONTACT (7
3AL35098BQ	ONETRU CIRCUIT BREAKER W/ AUX CONTACT (3
3AL35098BR	ONETRU CIRCUIT BREAKER W/ AUX CONTACT (6
3AL35098BT	ONETRU CIRCUIT BREAKER W/ AUX CONTACT (8
3AL35113AA	INTERCONNECTION KIT
3AL35159AA	ONERACK WITH DOME DOOR
3AL35159AB	ONERACK - WITH BULGED DOOR AND RALED
3AL35160AB	ONE RACK DOOR KIT WITH LEFT HANDLE

3AL75117AAAA	ESWL-PHOTONICS VERS (A) WDM LP
3AL75117ACAA	ESWL WDM ETHERNET BLADE LIC. PT FEE N-E
3AL75118AAAA	ESWL-PHOTONICS VERS (A) TDM LP
3AL75118ACAA	ESWL TDM ETHERNET BLADE LIC. PT FEE N-E
3AL81776AA	XFP DWDM TUNABLE CT
3AL81845AA	HD-SDI/3G-SDI ELECTRICAL SFP
3AL81920AA	1000BASE-BX10 2CH BIDI CSFP (UPSTREAM,13
3AL81921AA	1000BASE-BX10 2CH BIDI CSFP (DOWNSTREAM,
3AL82017AA	SFP+ DWDM TUNABLE NCHIRP WITH WT
3AL82017AB	SFP+ DWDM TUNABLE NCHIRP W/O WT
3AL82018AA	SFP+ STM-64/OC192 CWDM SHORT HAUL (1471N
3AL82018AB	SFP+ STM-64/OC192 CWDM SHORT HAUL (1491N
3AL82018AC	SFP+ STM-64/OC192 CWDM SHORT HAUL (1511N
3AL82018AD	SFP+ STM-64/OC192 CWDM SHORT HAUL (1531N
3AL82018AE	SFP+ STM-64/OC192 CWDM SHORT HAUL (1551N
3AL82018AF	SFP+ STM-64/OC192 CWDM SHORT HAUL (1571N
3AL82018AG	SFP+ STM-64/OC192 CWDM SHORT HAUL (1591N
3AL82018AH	SFP+ STM-64/OC192 CWDM SHORT HAUL (1611N
3AL82019AA	SFP+ P1L1-2D2/LR-2/10GBASE-ZR(W) -5/+85
3AL82020AA	CFP4 100GBASE-LR4 (4X25G) SINGLE RATE 10
3AL82022AA	CFP2 100G BASE-ER4 (4X25G) SINGLE RATE 100GE
3AL82023AA	CFP4 100GBASE-LR4/OTU-4 (4X25G) DUAL RAT
3AL82038AA	SFP+ DWDM TUNABLE NCHIRP W/O WT
3AL82039AA	1627NM OSC SFP FOR I-TEMP (DUPLX, SHORT
3AL82040AB	SFP OSC FE/STM-1 EULH 1516NM 120KM -5/85
3AL82041AA	CSOP SMART SFP, STM-1/OC-3 OVER GBE, E1-
3AL82042AA	TPOP SMART SFP, E1 (120 OHM BALANCED, RJ
3AL82043AA	SFP FE/STM-1 ULH BIDI OSC UPSTREAM -40/8
3AL82044AA	SFP FE/STM-1 ULH BIDI OSC DOWNSTREAM -40
3AL82045AA	XFP I-64.1/10GBE BASE-L -40/+85
3AL82046AA	CFP4 100GBASE-SR4 SINGLE RATE 100GE
3AL82048AA	SFP+ STM-64/OC192 CWDM LH 1471NM -40/85
3AL82048AB	SFP+ STM-64/OC192 CWDM LH 1491NM -40/85
3AL82048AC	SFP+ STM-64/OC192 CWDM LH 1511NM -40/85
3AL82048AD	SFP+ STM-64/OC192 CWDM LH 1531NM -40/85
3AL82048AE	SFP+ STM-64/OC192 CWDM LH 1551NM -40/85
3AL82048AF	SFP+ STM-64/OC192 CWDM LH 1571NM -40/85
3AL82048AG	SFP+ STM-64/OC192 CWDM LH 1591NM -40/85
3AL82048AH	SFP+ STM-64/OC192 CWDM LH 1611NM -40/85
3AL82055AA	XFP I-64.1/10GBE BASE-L
3AL82057AA	SFP+ 10G 10KM UPSTREAM -40/85
3AL82058AA	SFP+ 10G 10KM DOWNSTREAM -40/85
3AL82059AA	SFP+ 10G 40KM UPSTREAM -40/85
3AL82060AA	SFP+ 10G 40KM DOWNSTREAM -40/85
3AL82062AA	XFP 10G 10KM UPSTREAM -40/85
3AL82063AA	XFP 10G 10KM DOWNSTREAM -40/85
3AL82064AA	XFP 10G 40KM UPSTREAM -40/85
3AL82065AA	XFP 10G 40KM DOWNSTREAM -40/85
3AL82066AA	SFP+ CWDM GBE/CPRI 2-8/10GBE (1271 NM) -
3AL82066AB	SFP+ CWDM GBE/CPRI 2-8/10GBE (1291 NM) -

3AL82066AC	SFP+ CWDM GBE/CPRI 2-8/10GBE (1311 NM) -
3AL82066AD	SFP+ CWDM GBE/CPRI 2-8/10GBE (1331 NM) -
3AL82066AE	SFP+ CWDM GBE/CPRI 2-8/10GBE (1351 NM) -
3AL82066AF	SFP+ CWDM GBE/CPRI 2-8/10GBE (1371 NM) -
3AL82066AG	SFP+ CWDM GBE/CPRI 2-8/10GBE (1391 NM) -
3AL82066AH	SFP+ CWDM GBE/CPRI 2-8/10GBE (1411 NM) -
3AL82066AJ	SFP+ CWDM GBE/CPRI 2-8/10GBE (1431 NM) -
3AL82066AK	SFP+ CWDM GBE/CPRI 2-8/10GBE (1451 NM) -
3AL82066AL	SFP+ CWDM GBE/CPRI 2-8/10GBE (1471 NM) -
3AL82066AM	SFP+ CWDM GBE/CPRI 2-8/10GBE (1491 NM) -
3AL82066AN	SFP+ CWDM GBE/CPRI 2-8/10GBE (1511 NM) -
3AL82066AP	SFP+ CWDM GBE/CPRI 2-8/10GBE (1531 NM) -
3AL82066AQ	SFP+ CWDM GBE/CPRI 2-8/10GBE (1551 NM) -
3AL82066AR	SFP+ CWDM GBE/CPRI 2-8/10GBE (1571 NM) -
3AL82066AS	SFP+ CWDM GBE/CPRI 2-8/10GBE 1591 NM -40
3AL82066AT	SFP+ CWDM GBE/CPRI 2-8/10GBE 1611 NM -40
3AL82067AA	1DC100M CFP DIGITAL COHERENT 100G METRO
3AL82072AA	QSFP28 100G BASE-LR4 DUAL RATE 100GE/OTU
3AL82073AA	SFP+ DWDM 40KM (CH60) -40/85
3AL82073AB	SFP+ DWDM 40KM (CH59) -40/85
3AL82073AC	SFP+ DWDM 40KM (CH58) -40/85
3AL82073AD	SFP+ DWDM 40KM (CH57) -40/85
3AL82073AE	SFP+ DWDM 40KM (CH56) -40/85
3AL82073AF	SFP+ DWDM 40KM (CH55) -40/85
3AL82073AG	SFP+ DWDM 40KM (CH54) -40/85
3AL82073AH	SFP+ DWDM 40KM (CH53) -40/85
3AL82073AJ	SFP+ DWDM 40KM (CH52) -40/85
3AL82073AK	SFP+ DWDM 40KM (CH51) -40/85
3AL82073AL	SFP+ DWDM 40KM (CH50) -40/85
3AL82073AM	SFP+ DWDM 40KM (CH49) -40/85
3AL82073AN	SFP+ DWDM 40KM (CH48) -40/85
3AL82073AP	SFP+ DWDM 40KM (CH47) -40/85
3AL82073AQ	SFP+ DWDM 40KM (CH46) -40/85
3AL82073AR	SFP+ DWDM 40KM (CH45) -40/85
3AL82073AS	SFP+ DWDM 40KM (CH44) -40/85
3AL82073AT	SFP+ DWDM 40KM (CH43) -40/85
3AL82073AU	SFP+ DWDM 40KM (CH42) -40/85
3AL82073AV	SFP+ DWDM 40KM (CH41) -40/85
3AL82073AW	SFP+ DWDM 40KM (CH40) -40/85
3AL82073AX	SFP+ DWDM 40KM (CH39) -40/85
3AL82073AY	SFP+ DWDM 40KM (CH38) -40/85
3AL82073AZ	SFP+ DWDM 40KM (CH37) -40/85
3AL82073BA	SFP+ DWDM 40KM (CH36) -40/85
3AL82073BB	SFP+ DWDM 40KM (CH35) -40/85
3AL82073BC	SFP+ DWDM 40KM (CH34) -40/85
3AL82073BD	SFP+ DWDM 40KM (CH33) -40/85
3AL82073BE	SFP+ DWDM 40KM (CH32) -40/85
3AL82073BF	SFP+ DWDM 40KM (CH31) -40/85
3AL82073BG	SFP+ DWDM 40KM (CH30) -40/85
3AL82073BH	SFP+ DWDM 40KM (CH29) -40/85

3AL82073BJ	SFP+ DWDM 40KM (CH28) -40/85
3AL82073BK	SFP+ DWDM 40KM (CH27) -40/85
3AL82073BL	SFP+ DWDM 40KM (CH26) -40/85
3AL82073BM	SFP+ DWDM 40KM (CH25) -40/85
3AL82073BN	SFP+ DWDM 40KM (CH24) -40/85
3AL82073BP	SFP+ DWDM 40KM (CH23) -40/85
3AL82073BQ	SFP+ DWDM 40KM (CH22) -40/85
3AL82073BR	SFP+ DWDM 40KM (CH21) -40/85
3AL82073BS	SFP+ DWDM 40KM (CH20) -40/85
3AL82073BT	SFP+ DWDM 40KM (CH19) -40/85
3AL82073BU	SFP+ DWDM 40KM (CH18) -40/85
3AL82073BV	SFP+ DWDM 40KM (CH17) -40/85
3AL82074AA	QSFP28 100G BASE-LR4 SINGLE RATE 100GE
3AL82075AA	QSFP28 CWDM4 SINGLE RATE 100GE
3AL82076AA	SFP GBE CWDM SH 1471NM (-40/85)
3AL82076AB	SFP GBE CWDM SH 1491NM (-40/85)
3AL82076AC	SFP GBE CWDM SH 1511NM (-40/85)
3AL82076AD	SFP GBE CWDM SH 1531NM (-40/85)
3AL82076AE	SFP GBE CWDM SH 1551NM (-40/85)
3AL82076AF	SFP GBE CWDM SH 1571NM (-40/85)
3AL82076AG	SFP GBE CWDM SH 1591NM (-40/85)
3AL82076AH	SFP GBE CWDM SH 1611NM (-40/85)
3AL82081AA	SFP EULH-II OSC 1511NM
3AL82090AA	TPOP SMART SFP, T1 (100 OHM BALANCED, RJ
3AL82098AA	TSOP SMART SFP STM-16/OC-48 (I-16.1)
3AL82099AA	QSFP28 100G BASE-SR4 SINGLE RATE 100GE
3AL82107AA	SFP+ CPRI2-6 (15KM) -40/85
3AL82108AA	SFP OSC GBE/STM-1 BIDI-U 1627NM 40KM IT
3AL82109AA	SFP OSC GBE/STM-1 BIDI-D 1627NM 40KM IT
3AL82110AA	SFP+ DWDM 40KM APD CH60 -40/85
3AL82110AB	SFP+ DWDM 40KM APD CH59 -40/85
3AL82110AC	SFP+ DWDM 40KM APD CH58 -40/85
3AL82110AD	SFP+ DWDM 40KM APD CH57 -40/85
3AL82110AE	SFP+ DWDM 40KM APD CH56 -40/85
3AL82110AF	SFP+ DWDM 40KM APD CH55 -40/85
3AL82110AG	SFP+ DWDM 40KM APD CH54 -40/85
3AL82110AH	SFP+ DWDM 40KM APD CH53 -40/85
3AL82110AJ	SFP+ DWDM 40KM APD CH52 -40/85
3AL82110AK	SFP+ DWDM 40KM APD CH51 -40/85
3AL82110AL	SFP+ DWDM 40KM APD CH50 -40/85
3AL82110AM	SFP+ DWDM 40KM APD CH49 -40/85
3AL82110AN	SFP+ DWDM 40KM APD CH48 -40/85
3AL82110AP	SFP+ DWDM 40KM APD CH47 -40/85
3AL82110AQ	SFP+ DWDM 40KM APD CH46 -40/85
3AL82110AR	SFP+ DWDM 40KM APD CH45 -40/85
3AL82110AS	SFP+ DWDM 40KM APD CH44 -40/85
3AL82110AT	SFP+ DWDM 40KM APD CH43 -40/85
3AL82110AU	SFP+ DWDM 40KM APD CH42 -40/85
3AL82110AV	SFP+ DWDM 40KM APD CH41 -40/85
3AL82110AW	SFP+ DWDM 40KM APD CH40 -40/85

3AL82110AX	SFP+ DWDM 40KM APD CH39 -40/85
3AL82110AY	SFP+ DWDM 40KM APD CH38 -40/85
3AL82110AZ	SFP+ DWDM 40KM APD CH37 -40/85
3AL82110BA	SFP+ DWDM 40KM APD CH36 -40/85
3AL82110BB	SFP+ DWDM 40KM APD CH35 -40/85
3AL82110BC	SFP+ DWDM 40KM APD CH34 -40/85
3AL82110BD	SFP+ DWDM 40KM APD CH33 -40/85
3AL82110BE	SFP+ DWDM 40KM APD CH32 -40/85
3AL82110BF	SFP+ DWDM 40KM APD CH31 -40/85
3AL82110BG	SFP+ DWDM 40KM APD CH30 -40/85
3AL82110BH	SFP+ DWDM 40KM APD CH29 -40/85
3AL82110BJ	SFP+ DWDM 40KM APD CH28 -40/85
3AL82110BK	SFP+ DWDM 40KM APD CH27 -40/85
3AL82110BL	SFP+ DWDM 40KM APD CH26 -40/85
3AL82110BM	SFP+ DWDM 40KM APD CH25 -40/85
3AL82110BN	SFP+ DWDM 40KM APD CH24 -40/85
3AL82110BP	SFP+ DWDM 40KM APD CH23 -40/85
3AL82110BQ	SFP+ DWDM 40KM APD CH22 -40/85
3AL82110BR	SFP+ DWDM 40KM APD CH21 -40/85
3AL82110BS	SFP+ DWDM 40KM APD CH20 -40/85
3AL82110BT	SFP+ DWDM 40KM APD CH19 -40/85
3AL82110BU	SFP+ DWDM 40KM APD CH18 -40/85
3AL82110BV	SFP+ DWDM 40KM APD CH17 -40/85
3AL82111AA	SFP OSC GBE 1627NM 80KM W/ OTDR -40/85
3AL82117AA	SFP+ CPRI6-7 MMF 300M -40/85
3AL82130AA	SFP+ CPRI3-8/10GBE SMDF 15KM -40/85
3AL82135AA	SFP BIDI OSC-U STM-1/GE SH 1506NM -40/85
3AL82136AA	SFP BIDI OSC-D STM-1/GE SH 1514NM -40/85
3AL82141AA	SFP OSC FE/STM-1 ULH 1627NM 120KM -5/70
3AL82146AA	SFP+ SD-SDI/HD-SDI/3G-SDI 30KM ET
3AL82150AA	C2ACO CFP2-ACO
3AL82152AA	QSFP28 ER4-LITE DR 100GE/OTU4 -5/75
3AL82154AB	SFP OSC FE/STM-1 EULH 1516NM 150KM -5/85
3AL82155AA	CFP4-ACO 100G / 200G COHERENT PLUGGABLE
3AL82155AB	CFP4-ACO 100G/200G COH PLUGGABLE (LP)
3AL82161AA	SFP28 25GE_10GE_CPRI7/8/10 SR -40/85
3AL82162AA	SFP28 25GE_10GE_CPRI7/8/10 LR -40/85
3AL82163AA	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH61
3AL82163AB	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH60
3AL82163AC	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH59
3AL82163AD	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH58
3AL82163AE	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH57
3AL82163AF	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH56
3AL82163AG	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH55
3AL82163AH	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH54
3AL82163AJ	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH53
3AL82163AK	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH52
3AL82163AL	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH51
3AL82163AM	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH50
3AL82163AN	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH49

3AL82163AP	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH48
3AL82163AQ	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH47
3AL82163AR	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH46
3AL82163AS	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH45
3AL82163AT	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH44
3AL82163AU	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH43
3AL82163AV	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH42
3AL82163AW	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH41
3AL82163AX	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH40
3AL82163AY	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH39
3AL82163AZ	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH38
3AL82163BA	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH37
3AL82163BB	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH36
3AL82163BC	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH35
3AL82163BD	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH34
3AL82163BE	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH33
3AL82163BF	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH32
3AL82163BG	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH31
3AL82163BH	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH30
3AL82163BJ	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH29
3AL82163BK	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH28
3AL82163BL	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH27
3AL82163BM	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH26
3AL82163BN	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH25
3AL82163BP	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH24
3AL82163BQ	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH23
3AL82163BR	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH22
3AL82163BS	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH21
3AL82163BT	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH20
3AL82163BU	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH19
3AL82163BV	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH18
3AL82163BW	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH17
3AL82163BX	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH16
3AL82163BY	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH15
3AL82164AA	QSFP28 E4WDM-10 4X25GE_CPRI7/8/10_10GE I
3AL82167AA	SFP OSC GBE EULH 1516NM 150KM -5/85
3AL82172AA	XFP DWDM TUNABLE Z-CHIRP -5/+70
3AL82173AA	SFP 2MBPS 2KM CT MMF
3AL82174AA	XFP DWDM TUNABLE Z-CHIRP -5/+70
3AL82178AA	QSFP28 100GE 4WDM-20 BIDI-U -20/+85
3AL82179AA	QSFP28 100GE 4WDM-20 BIDI-D -20/+85
3AL82182AA	C2ACOA CFP2-ACO METRO
3AL82183AA	SFP+ 10GBASE-ZR/P1L1-2D2 80KM ET W/ OID
3AL82184AA	SFP+ 10GBASE-ER/P1S1-2D2B 40KM ET W/ OID
3AL82185AA	SFP L-16.2/LR-2 80KM IT W/ OID
3AL82186AA	SFP L-16.1/LR-1 40KM IT W/ OID
3AL82189AA	SFP 2MBPS 20KM CT SMF
3AL82214AA	SFP FE 100BASE-T EL -10/+85
3AL82217AA	QSFP28 100GBASE-SR4 DR 100GE/OTU4 -5/75
3AL82220AA	SFP BIDI OTC-U STM-1/GE ULH 1506NM IT

3AL82221AA	SFP BIDI OTC-D STM-1/GE ULH 1514NM IT
3AL82230AA	SFP EL 100/1000BASE-T 0/+70
3AL82233AA	SFP BIDI OTC-U STM-1/FE ULH 1514.4NM IT
3AL82234AA	SFP BIDI OTC-D STM-1/FE ULH 1517.6NM IT
3AL89857AAAA	SFP DUMMY PLUG KIT
3AL91622ABXX	MA NG TRU BYPASS EXT
3AN44747AA	MA TO HOST 2 SPOOLS
3AN44747AAXX	21 INCHES D.C.U.ASSEMBLED SUPPORT
3AN51356ABAA	TRU DUMMY COVER
3HE07939AA	7705 SAR-O 2-FIBER CWDM 4 COLOR1471-1531
3HE07939BA	7705 SAR-O 2-FIBER CWDM 4 COLOR1551-1611
3KC12828AC	ED 4 EQUIPMENT CONTROLLER (-40 / 65C)
3KC12831AB	ED4 POWER FILTER(DC) WITH WT EM-HARDENED
3KC12831ABXX	ED4 POWER FILTER(DC) WITH WT EM-HARDENED
3KC12831CA	ED4 POWER FILTER(DC) W/WT EM-HARDENED V2
3KC12834AC	ED 4 POWER FILTER (AC) WITH WT-HARDENED
3KC12841AA	ED 4 FAN UNIT HARDENED
3KC12841AAXX	ED 4 FAN UNIT HARDENED
3KC12852AA	ED 4 STATIC FILTER HARDENED CWDM 4 CH (A
3KC12852AAXX	ED 4 STATIC FILTER HARDENED CWDM 4 CH (A
3KC12852AB	ED 4 STATIC FILTER HARDENED CWDM 4 CH (B
3KC12852ABXX	ED 4 STATIC FILTER HARDENED CWDM 4 CH (B
3KC12853AA	ED 4 STATIC FILTER HARDENED CWDM 8 CH
3KC12853AAXX	ED 4 STATIC FILTER HARDENED CWDM 8 CH
3KC12854AA	ED 4 STATIC FILTER HARDENED DWDM 8 CH (A
3KC12854AAXX	ED 4 STATIC FILTER HARDENED DWDM 8 CH (A
3KC12854AB	ED 4 STATIC FILTER HARDENED DWDM 8 CH (B
3KC12854ABXX	ED 4 STATIC FILTER HARDENED DWDM 8 CH (B
3KC12854AC	ED 4 STATIC FILTER HARDENED DWDM 8 CH (C
3KC12854ACXX	ED 4 STATIC FILTER HARDENED DWDM 8 CH (C
3KC12854AD	ED 4 STATIC FILTER HARDENED DWDM 8 CH (D
3KC12854ADXX	ED 4 STATIC FILTER HARDENED DWDM 8 CH (D
3KC12857AA	ED 4 STATIC FILTER HARDENED DWDM 4 CH (A
3KC12857AAXX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (A
3KC12857AB	ED 4 STATIC FILTER HARDENED DWDM 4 CH (B
3KC12857ABXX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (B
3KC12857AC	ED 4 STATIC FILTER HARDENED DWDM 4 CH (C
3KC12857ACXX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (C
3KC12857AD	ED 4 STATIC FILTER HARDENED DWDM 4 CH (D
3KC12857ADXX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (D
3KC12857AE	ED 4 STATIC FILTER HARDENED DWDM 4 CH (E
3KC12857AEXX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (E
3KC12857AF	ED 4 STATIC FILTER HARDENED DWDM 4 CH (F
3KC12857AFX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (F
3KC12857AG	ED 4 STATIC FILTER HARDENED DWDM 4 CH (G
3KC12857AGXX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (G
3KC12857AH	ED 4 STATIC FILTER HARDENED DWDM 4 CH (H
3KC12857AHXX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (H
3KC12864AA	ED 4 DUST FILTER
3KC12864AAXX	ED 4 DUST FILTER

3KC12890AA	ED 4 SHELF COVER - ALL RACK SIZES
3KC12890AAXX	ED 4 SHELF COVER - ALL RACK SIZES
3KC12949AA	ED 4 CA-HK CABLE, 15M, SHIELDED (ANSI)
3KC12949AAXX	ED 4 CA-HK CABLE, 15M, SHIELDED (ANSI)
3KC12950AA	ED 4 POWER FILTER BLANK
3KC12950AAXX	ED 4 POWER FILTER BLANK
3KC12952AA	ED 4 STATIC FILTER BLANK (1/2 SLOT)
3KC12952AAXX	ED 4 STATIC FILTER BLANK (1/2 SLOT)
3KC12953AA	ED 4 STATIC FILTER BLANK (FULL SLOT)
3KC12953AAXX	ED 4 STATIC FILTER BLANK (FULL SLOT)
3KC12954BA	CA-ED 4 DC POWER SUP,5M(ANSI,-48V/24V)
3KC12954BAXX	CA-ED 4 DC POWER SUP,5M(ANSI,-48V/24V)
3KC12954BB	CA-ED 4 DC POWER SUP,10M(ANSI,-48V/24V)
3KC12954BBXX	CA-ED 4 DC POWER SUP,10M(ANSI,-48V/24V)
3KC12954BC	CA-ED 4 DC POWER SUP,3.6M(ANSI,-48V/24V)
3KC12954BCXX	CA-ED 4 DC POWER SUP,3.6M(ANSI,-48V/24V)
3KC12959AC	ED PSS 4 SHELF KIT(E4SHF, E4EC, E4FAN) H
3KC12960AA	ED 4 SHELF
3KC12960AAXX	ED 4 SHELF-SHELF,BP,SHELF ID,DUST FILTER
3KC13016AA	AC CABLE ADAPTOR
3KC13016AAXX	AC CABLE ADAPTOR
3KC13063AAAA	PRE-STAGING 1830PSS-4 STANDARD
3KC13064AAAA	PRE-STAGING 1830PSS-4 EXTRA TEST
3KC13065AAAA	PRE-STAGING 1830PSS-4 EXTRA TEMP
3KC13066AAAA	PRE-STAGING 1830PSS-4 EXTRA TIME
3KC13067AAAA	ACI-1830PSS4 FAT STANDARD
3KC13130CB	CA-E1/DS1 2MHZ AND 1PPS TOD,50M
3KC13130CC	CA-E1/DS1 2MHZ AND 1PPS TOD,100M
3KC13130CD	CA-E1/DS1 2MHZ AND 1PPS ToD,20M
3KC13130CE	CA-E1/DS1 2MHZ AND 1PPS ToD, 5M
3KC13130DA	CA-1PPS(50Ohm) (SMB 1.0/2.3 - BNC), 1M
3KC13130EA	CA-100ohm 1PPS ToD w/ RJ48C, 5m
3KC13130EC	CA-100ohm 1PPS ToD w/ RJ48C, 20m
3KC13156BA	PTPCTL IEEE1588V2 CONTROLLER CARD
3KC13172AA	CA-1830PSS4 CRAFT INTERFACE TERMINAL(CIT
3KC13172AAAA	CA-PSS4 CRAFT INTERFACE TERMINAL (1.5M)
3KC13205BC	CA-E1/DS1 2MHZ 1PSS TOD,RJ5,50M
3KC13310AA	11DPM8 - 8XANY MUXPONDER
3KC13331AA	ED 4 SHELF EXTENDED COVER
3KC13333AA	ED 4 MOUNTING BRACKETS(19,23 INCHES)
3KC13361AA	ED4 RACK INSTL KIT(19 INCH) NO PWR CABLE
3KC13361AB	ED4 INSTALLTN KIT(ANSI RACK)W/O PWR CBLE
3KC13401AA	CA-RJ45 CROSS OVER 2M
3KC13402AAAA	ACI-NMS INSTALLATION&TEST
3KC13550AAAA	SWP-1830PSS-4 R9.1.0
3KC13552AAAA	SWPL 1830PSS-4 R9.1.0
3KC13560AAAA	SWP-1830PSS-4 R10.0.0
3KC13846AAAA	SWP 1830PSS-4 R13.0.0
3KC19289AA	VWM STATIC FILTER CWDM 8 CH (AA VARIANT)
3KC19289BA	VWM STATIC FILTER CWDM 8 CH (BA VARIANT)

3KC19289CA	VWM STATIC FILTER CWDM 8 CH (CA VARIANT)
3KC19289CP	VWM STATIC FILTER CWDM 4 CH (CP VARIANT)
3KC19289CQ	VWM STATIC FILTER CWDM 4 CH (CQ VARIANT)
3KC19289DA	VWM BAND SPLITTER/COMBINER
3KC19387AA	VWM SHELF KIT (CWDM 19)
3KC19387AAXX	VWM SHELF KIT (CWDM 19 INCHES)
3KC19388AA	VWM SHELF KIT (CWDM 21 INCH)
3KC19389AA	VWM SHELF KIT (CWDM ANSI)
3KC19389AAXX	VWM SHELF KIT (CWDM ANSI)
3KC35392AB	ONETRUE KIT, ANSI
3KC35392ABXX	ONETRUE KIT, ANSI
3KC35452AA	20UC200 - 20X10G T-SFP UPLINK
3KC35464AA	SC96 - SWITCH CARD 4T8
3KC40952AA	PSS-24X RACK DOOR KIT
3KC40953AB	PSS-24X SIDE PANELS ONE RACK 600 + 25 KIT
3KC40958AB	PSS-24X ANSI SHELF INSTALLATION KIT
3KC41016AA	KIT, ONERACK BULGED DOOR W/ LEFT HANDLE
3KC42969AA	VWM EC SLOT BLANK COVER
3KC43050AA	1830 PASSIVE VWM KIT
3KC43057AA	1830 VWM DC2 INDOOR SHELF 1RU, 19 INCH
3KC43058AB	1830 VWM DC2 OCML PLUGGABLE, V1, W OTDR
3KC43059AB	1830 VWM DC2 OCML PLUGGABLE, V2, w/ OTDR
3KC43060AA	1830 VWM DC2 POWER SUPPLY MODULE, DC
3KC43061AA	1830 VWM DC2 POWER SUPPLY MODULE, AC
3KC43062AA	1830 VWM DC2 FAN MODULE
3KC43063AA	1830 VWM DC2 INSTALLATION KIT
3KC43069AA	1830 VWM DC2 BLANK COVER
3KC43070AA	1830 VWM DC2 FIBER MANAGEMENT BRACKET
3KC43093AAAA	ESWP 1830 VWM MS R8.5.1
3KC43096AAAA	ESWP 1830 VWM SMM R8.5.1
3KC43105AA	SHELF 19IN, 0.5RU, 4 SLOTS, TYPE II
3KC43106AA	SFC 4CH A VARIANT TYPE II (27-33)
3KC43107AAAA	ESWP 1830 VWM MS R9.0.0
3KC43109AAAA	ESWP 1830 VWM SMM R9.0.0
3KC43116AA	SLOT BLANK, 0.5RU, 4 SLOTS, TYPE II
3KC43119AA	SLOT BLANK, 0.5RU, 2 SLOTS, TYPE II
3KC43125AAAA	ESWL 1830 VWM TLU MANAGER RTU
3KC43126AAAA	ESWL 1830 VWM MANAGEMENT SERVER RTU
3KC43128AA	1830 VWM DC2 OCML DC BUNDLE
3KC43129AA	1830 VWM DC2 OCML AC BUNDLE
3KC43139AA	POD 8CH A Variant, LM, CH(59..52)
3KC43139BA	POD 8CH B VARIANT, LM, CH(48..41)
3KC43140AA	SFD 8CH A Variant, LM, CH(59..52)
3KC43140BA	SFD 8CH B VARIANT, LM, CH(48..41)
3KC43141AA	1830VWM POD8 WATERPROOF PLUG KITS
3KC43142AA	1830VWM POD-8 WALL/POLE MOUNTING BRACKET
3KC43143AA	1830VWM POD-8 STRAND MOUNTING BRACKET
3KC43145AAAA	ESWP 1830 VWM MS R9.0.1
3KC43147AAAA	ESWP 1830 VWM SMM R9.0.1
3KC43168AA	POD-8 MPO-LC OUTDOOR CABLE 5M

3KC48820AA	8EC2 -EQUIPT CONTROLLER-PSS8,TEMP-HARDEN
3KC48830AA	PSS8-8SP- SHELF PNL,TEMP-HARDEN
3KC48839AA	MA-FRONT COVER, FAN TRAY
3KC48840AA	PSS8-8UP-USER PANEL TEMP-HARDENED
3KC48850AA	PSS8-8FAN-FAN UNIT,TEMP-HARDENED
3KC48870AB	POWER FILTER-30A-PSS8 (8DC30)
3KC48880AA	8AC7-AC PWRFLTR(7A AT 110V)PSS8,TEMP-HAR
3KC48900AA	PSS8 SHELF KIT -PSS8KIT (1XPSS8, 1X8FAN)
3KC48901AA	PSS8 SHELF-(INCLUDING PSS8SHF,SHELF PNL)
3KC48910AA	8EC2E - EQUIPMENT CONTROLLER SECURED
3KC48936AA	PSS8-C SHELF KIT - PSS8CKIT
3KC48940AA	PSS8-C SHELF - PSS8-C (PSS8CSHF, 8SP)
3KC48943AA	AIR FILTER - PSS8-C
3KC48946AA	PSS8-C INST KIT-19IN EIA
3KC48947AA	8CVR-C - PSS8-C FRONT COVER
3KC48960AB	PSS16II-PSS16II SHELF (SHELF CHASSIS AND
3KC48960AC	PSS16II SHELF AC/DC (SHF CHASIS WBPLN)
3KC48963AA	CC EAL3 PSS-16II SHELF KIT
3KC48963BA	KIT 16IISHLF CC EAL3
3KC48980AA	16UP2 - USER PANEL - PSS16II
3KC48980AB	16UP2 - USER PANEL PSS16II
3KC48990AB	16FAN2 - FAN UNIT - PSS16II
3KC49010AA	16DC65-DC PWRFLTR(63A) PSS16II W SMPLTMG
3KC49020AB	16DC65T-DCPWRFLTR 65A PSS16II W FULLTMNG
3KC49030AA	16AC16 - PSS16II AC/DC PWR MOD (2500W/22
3KC49038AA	GNSS SFP MODULE
3KC49039AA	ANTENNA KITS (10M) FOR GNSS SFP MODULE
3KC49040AA	CA-ANTENNA CABLE(60M)FOR GNSS SFP MODULE
3KC49041AA	CA-ANTENNA CABLE (10M)FOR GNSS SFP MODLE
3KC49050AB	16IIKIT-PSS16II SHELF KIT (1XSHELF 1XFAN
3KC49050AC	PSS16II AC/DC SHELFKIT (AC/DC SHELF 16FA
3KC49050AD	PSS16II AC/DC SHLFKIT LP W/16FAN2C 16UP2
3KC49050BB	KIT 16IISHLF(1XSHLF,FAN,16UP2,AIRFLTR)
3KC49050BC	KIT 16IISHLF AC/DC (SHLFAN 16UP2 ARFLTR)
3KC49050BD	KIT16IISHLF AC/DC LP(SHLFAN2C16UP2 FLTR)
3KC49100AA	16FAN2C - FAN UNIT- PSS16II LP
3KC49105AA	8DC30T2-DCPF30A PSS8 FULLTMG TH W/O BITS
3KC49160AB	12P120 10G, 12 PROG PORTS, 2 RTUS
3KC49161AB	12P120 10G,12 PROG PORTS,6 RTUS
3KC49170AA	PTPIOC IEEE1588V2 PTP BIDI OTC INTF CARD
3KC49200AA	11QPA4B - 11G TRANSPONDER (4X10GE CLNT)
3KC49210AB	AA2DONWB -AMP 2-DIR W/O WT 44CH W APR
3KC49220AB	OSCTAPR -OSC TERMINATION W/O WT W APR
3KC49230AA	SFDC8A - STATIC FLTR DWDM CMPCT 8CH (A)
3KC49230AB	SFDC8B - STATIC FLTR DWDM CMPCT 8CH (B)
3KC49230AC	SFDC8C - STATIC FLTR DWDM CMPCT 8CH (C)
3KC49230AD	SFDC8D - STATIC FLTR DWDM CMPCT 8CH (D)
3KC49230AE	SFDC8E - STATIC FLTR DWDM CMPCT 8CH (E)
3KC49240AA	8P20 - 8XANY 10G TRIB 6XANY MUX
3KC49753AAAA	PRE-STAGING 1830PSS-8 STANDARD

3KC49753ABAA	PRE-STAGING 1830PSS-8 EXTRA TEST
3KC49753ACAA	PRE-STAGING 1830PSS-8 EXTRA TEMP
3KC49753ADAA	PRE-STAGING 1830PSS-8 EXTRA TIME
3KC49763AAAA	PRE-STAGING 1830PSS-16II STANDARD
3KC49763ABAA	PRE-STAGING 1830PSS-16II EXTRA TEST
3KC49763ACAA	PRE-STAGING 1830PSS-16II EXTRA TEMP
3KC49763ADAA	PRE-STAGING 1830PSS-16II EXTRA TIME
3KC49801AA	PSS8 -8ECBNK - EQUIPCONTROLLER BLNK
3KC49802AA	8DCBNK - DC POWER FILTER BLANK-PSS-8
3KC49803AA	AIR FILTER BLANK-PSS8
3KC49812AA	PSS8 INST KIT-19IN EIA
3KC49814AA	PSS8 INST KIT-23IN ANSI
3KC49822AA	CA-DC POWER CABLE_DC 3.6M_ANGLED (PSS8)
3KC49822AB	CA-DC POWER CABLE_DC 10M_ANGLED (PSS8)
3KC49822AC	CA-DC POWER CABLE_DC 20M_ANGLED (PSS8)
3KC49823AA	CA-RACK ALARM CABLE
3KC49824AA	CA-RACK LAMP CABLE
3KC49825AA	CA-CRAFT
3KC49926AA	AIR FILTER - PSS8
3KC49946AA	8CVR -PSS8 FRONT COVER
3KC50001AA	16DCBNK - DC POWER FILTER BLANK-PSS16II
3KC50011AC	PSS16II INST KIT-19IN 4-POST AC/DC
3KC50012AB	16INST19 - PSS16II INST KIT-19IN EIA
3KC50012AC	PSS16II INST KIT-19IN 2-POST AC/DC
3KC50013AB	16INSTET - PSS16II INST KIT-ETSI
3KC50013AC	PSS16II INST KIT-21IN AC/DC
3KC50014AB	16INST23 - PSS16II INST KIT-23IN ANSI
3KC50014AC	PSS16II INST KIT-23IN AC/DC
3KC50021AA	PSS16II CA-DC POWER CABLE_LEFT 3.6M
3KC50021AB	PSS16II CA-DC POWER CABLE_LEFT 10M
3KC50021AC	PSS16II CA-DC POWER CABLE_LEFT 20M
3KC50022AA	PSS16II CA-DC POWER CABLE_RIGHT 3.6M
3KC50022AB	PSS16II CA-DC POWER CABLE_RIGHT 10M
3KC50022AC	PSS16II CA-DC POWER CABLE_RIGHT 20M
3KC50023AA	CA-AC POWER SUPPLY CABLE_CHINA 16A(5M)
3KC50023AB	CA-AC PWR SUPPLY CABLE-NORTH AMERICA 16A
3KC50023AC	CA-AC PWR SPLY CA-CONTINENTAL EUROPE 16A
3KC50023AD	CA-AC POWER SUPPLY CABLE_UK/IRELAND 16A
3KC50025AA	CA-DC POWER CABLE, PSS16II
3KC50040AB	16AF2 - PSS16II AIR FILTER
3KC50122AB	16CVR2 - PSS16II FRONT COVER KIT
3KC50122AC	16CVR2 - PSS16II FRONT COVER KIT
3KC50130AA	AC/DC RECTIFIER PLUGGABLE MODULE
3KC50131AA	AC/DC SHELF - SINGLE
3KC50132AA	AC/DC SHELF - DUPLEX
3KC50133AA	AC/DC SHLF SET SNGL(INC 1XSHF-SNGL,2XRCT
3KC50134AA	AC/DC SHLF SET DUPLEX(INC 1XSHF-DPLX,4XR
3KC50135AA	AC/DC SHF INST KIT-19IN EIA
3KC50136AA	AC/DC SHF INST KIT-ETSI, SINGLE
3KC50137AA	AC/DC SHF INST KIT-ETSI, DUPLEX

3KC50138AA	AC/DC SHF INST KIT-23IN ANSI
3KC50248AB	AIR DEFLECTOR (1830PSS4/8)
3KC50257AA	CC EAL3 PSS-8 SHELF KIT (WITH 2X8EC2E)
3KC50285AA	16DCAPT-DCPWR FLTR ADPTR PSS-16II AC SHF
3KC50322AA	30AN300 - 30X10G SFP+ CLIENT CARD
3KC50330AA	PSS-24X MULTI FUNCTION CARD
3KC50335AA	CCC-CENTRAL CLOCK AND CONTROLLER
3KC50388AA	PSS-24X POWER SUPPLY FILTER
3KC50429AB	PSS-24X FAN TRAY
3KC50486AA	PSS-24X TEMP. AND PRESSURE SENSOR CARD
3KC50547AA	PSS-24X ETSI/ANSI CABLE INSTALLATION KIT
3KC50567AA	CABLE - HOUSEKEEPING IN (DSUB) 30M
3KC50568AA	CABLE- HOUSEKEEPING OUT (DSUB) 30M
3KC50569AA	CABLE- REMOTE ALARM (DSUB) 30M
3KC50570AB	CABLE- RACK LAMPS OUT RACK LED (DSUB) 3M
3KC50572AA	CA PSS24XPSS24XRKLMPSPDAYZCHN(DSUBDSUB)3M
3KC50573AA	CA PSS24XPSS36XRKLMPSPDAYZCHN(DSUBDSUB)3M
3KC50574AA	CA-TEMP PRESS SENSOR
3KC50611AA	PSS-24X ANSI RACK INSTALLATION KIT
3KC50625AA	PSS-24X ANSI LOWER COMPLETE AIR BAFFLE
3KC50629AA	PSS-24X ANSI MIDDLE COMPLETE AIR BAFFLE
3KC50674AA	PSS-24X ETSI MIDDLE COMPLETE AIR BAFFLE
3KC50675AA	PSS-24X ETSI LOWER COMPLETE AIR BAFFLE
3KC50699AA	PSS-24X SUBRACK BLANK ANSI
3KC50701AA	CABLE - GROUND CABLE 3M
3KC50707AA	PSS-24X SUBRACK BLANK ETSI
3KC59819AC	IO SLOT BLANK CARD
3KC59925AA	4UC400 - 4X100G UPLINK
3KC60153AA	30SE300 - 30X X10GE L2
3KC60165AA	6SE300 - 100GE L2
3KC60191AA	10AN400 - 10/40/100G ANYRATE CARD
3KC60223AA	PSS24X SHELF, MFC24X AND TPSC24X
3KC60346AA	2UC400 - 2 CARRIER UPLINK (UNRESTRICTED)
3KC60351AA	PSS24X AIR FILTER
3KC60352AAAA	ESWL - RTU LIC 1830PSS-24X 100G CAP
3KC60353AAAA	ESWL - RTU LIC 1830PSS-24X 100G CAP GMRE
3KC60354AAAA	ESWL - RTU LIC 1830PSS-24X 200G PORT
3KC60371AAAA	PRE-STAGING 1830PSS-24X STANDARD
3KC60372AAAA	PRE-STAGING 1830PSS-24X EXTRA TEST
3KC60373AAAA	PRE-STAGING 1830PSS-24X EXTRA TEMP
3KC60374AAAA	PRE-STAGING 1830PSS-24X EXTRA TIME
3KC60375AA	2AC100H CFP2 ANALOG COH LH 100G
3KC60389AA	4UC400 - 4X100G UPLINK N-E
3KC60390AA	CCC - CENTRAL CLOCK AND CONTROLLER N-E
3KC60391AA	30AN300 - 30X10G SFP CLIENT CARD N-E
3KC60428AA	20AN80 - 20X 10G/SUB10G MULTIRATE CARD
3KC60474AA	SC24T - SWITCH CARD 24T
3KC60522AA	2UC400E - 2 CARRIER UPLINK HP ENCRYPTED
3KC60555AA	PSS24X MONITOR PORTS COVER REPAIR KIT
3KC60557AA	PSS24X POWER SUPPLY FILTER (HIGH PWR 70A)

3KC61010AB	10AN1T- 10X100G/4X200GBE/2X400GBE CLIENT
3KC61026AA	8UC1T - 8-PORT 100G/200G UPLINK
3KC61074AA	4UC1T - 4X200G/250G 2x300G/400G UPLINK
3KC68210AC	HIGH PERFORMANCE SMS WITH 2 PSU
3KC68210AD	SECURITY MGMT SERVER NETHSM WITH 2 PSU
3KC68210AE	HIGH PERFORMANCE SMS REV AE WITH 2 PSU
3KC68212AAAA	ESWL SMS ENCRYPTED LAMBDA 10G RTU
3KC68223AB	SMS ENHANCED POWER SUPPLY
3KC68225AA	10 SMS SMARTCARDS V1
3KC68226AA	BATTERY, 2 SPARES, 3.6V PRIMARY LITHIUM
3KC68231AAAA	ESWL SMS ENCRYPTED LAMBDA 100G RTU
3KC68233AAAA	ESWP SECURE MGMT SERVER R2.1.1 APPLIC
3KC68236AAAA	ESWP SECURE MGMT SERVER R2.0.1 APPLIC
3KC68241AAAA	ESWP SECURE MGMT SERVER R3.0 APPLIC
3KC68247AAAA	ESWL SMS ENCRYPTED AE LAMBDA 10G RTU
3KC68248AAAA	ESWL SMS ENCRYPTED AE LAMBDA 100G RTU
3KC68251AAAA	ESWL SMS ENCRYPTED MW LINK RTU
3KC68254AAAA	ESWP SECURE MGMT SERVER R2.1.1 ISO
3KC68257AA	1 KIT OF 2 3KC68223AB PSU UNITS
3KC68259AAAA	ESWP SECURE MGMT SERVER R2.2.1 APPLIC
3KC68264AAAA	ESWP SMS VIR MACHINE INSTALLER V2.0.1
3KC68266AAAA	ESWP MIGRATION TOOL V3.0.0 FOR 1830 SMS
3KC68267AAAA	ESWP APPLNCE INST TOOL V1.1.0 - 1830 SMS
3KC68270AAAA	ESWP SECURE MGMT SERVER R3.0.1 APPLIC
3KC68280AAAA	ESWP MIGRATION TOOL V3.0.1 FOR 1830 SMS
3KC68308AA	1830PSD RACK MOUNT BRACKET KIT 19 INCHES
3KC68309AA	1830PSD RACK MOUNT BRACKET KIT ETSI
3KC68310AA	1830PSD RACK MOUNT BRACKET KIT 23INCHES
3KC68311AA	1830PSD WALL MOUNT BRACKET KIT
3KC68315AAAA	ESWP 1830PSD 10G SOFTWARE R1.0 OLCS
3KC68320AAAA	ESWL 1830PSD 10G OTN LICENSE
3KC68323AAAA	ESWP 1830 PSD 10G SOFTWARE R1.1 OLCS
3KC68325AAAA	ESWL 1830PSD 10G ETHERNET LICENSE
3KC68329AAAA	ESWP 1830 PSD 10G SOFTWARE R1.1.1 OLCS
3KC68332AAAA	ESWP 1830 PSD 10G SOFTWARE R1.1.2 OLCS
3KC68340AAAA	ESWP 1830 PSD 10G SOFTWARE R1.2 OLCS
3KC68345AA	1830 PHOTONIC SERVICE DEMARCATION PSD-DC
3KC68348AAAA	ESWP 1830 PSD 10G SOFTWARE R2.0 OLCS
3KC69412AAAA	SWP 1830PSI-2T R1.0.0
3KC69418AA	PSI-2T 2-POST RACK 23IN EIA INSTALL KIT
3KC69418AB	PSI-2T 2-POST RACK 19IN EIA INSTALL KIT
3KC69418AC	PSI-M 2 POST RACK 23IN EIA INSTALL KIT
3KC69418AD	PSI-M 2 POST RACK 19IN EIA INSTALL KIT
3KC69423AAAA	SWP 1830PSI-2T R2.0.0
3KC69446AAAA	ESWP 1830PSI-2T R4.0
3KC69451AAAA	SWP 1830PSI-2T R2.0.2
3KC69455AAAA	SWP 1830 PSI-2T R4.0.3
3KC69624AAAA	SWP 1830PSS-8/32 R9.1.0 ECE
3KC69626AAAA	SWPL 1830PSS-8/32 R9.1.0 ECE
3KC69629AAAA	SWPL 1830PSS R9.1 PSS16I/16/32/24XN-E

3KC69633AAAA	SWP 1830PSS-EPT R9.1.0 DVD
3KC69659AA	S2AD200R-1X100G/200G OT RGNL UNRESTRICTD
3KC69661AA	1830PSS32 DUST PLUG KIT
3KC69751AA	IRDM20-20D ROADM SWG AMP
3KC69751AB	IRDM20-20D ROADM SWG AMP LP
3KC69754AA	1830 VWM DCM TLU/PMU INDOOR SHELF DC
3KC69755AA	1830 VWM DCM TLU/PMU INDOOR SHELF AC
3KC69756AA	1830VWM DCM 6CH CPRI7 TLU/PMU MOD REC
3KC69757AA	1830 VWM DCM 6CH CPRI7 TLU/PMU MOD RE
3KC69758AA	1830VWM DCM 6CH CPRI3 TLU/PMU MODUL REC
3KC69759AA	1830 VWM DCM 6CH CPRI3 TLU/PMU MOD RE
3KC69760AA	1830VWM DCM 6CH CPRI7 TLU/PMU OUTDOOR DC
3KC69761AA	1830VWM DCM 6CH CPRI7 TLU/PMU OUTDOOR AC
3KC69762AA	1830VWM DCM 6CH CPRI3 TLU/PMU OUTDOOR DC
3KC69763AA	1830VWM DCM 6CH CPRI3 TLU/PMU OUTDOOR AC
3KC69764AA	1830 VWM DCM TLU/PMU INDOOR SLOT FILLER
3KC69765AA	1830VWM DCM TLU/PMU OUTDOOR BACK-MNT KIT
3KC69766AA	1830VWM DCM TLU/PMU OUTDOOR SIDE-MNT KIT
3KC69767AA	1830VWM DCM TLU/PMU INDOOR MOUNT KIT
3KC69768AA	VWM DCM TLU/PMU DEBUG CABLE, 3M
3KC69769AA	1830 VWM DCM TLU/PMU AC POWER CABLE, 3M
3KC69770AA	1830 VWM DCM TLU/PMU DC POWER CABLE, 5M
3KC69771AA	1830 VWM DCM TLU/PMU INDOOR FAN UNIT
3KC69791AA	1830 VWM PMUD21A 21CH DWDM PMU, BAND-A
3KC69791AB	1830 VWM PMUD21B 21CH DWDM PMU, BAND-B
3KC69791AC	1830 VWM PMUD21C 21CH DWDM PMU, BAND-C
3KC69791AD	1830 VWM PMUD21D 21CH DWDM PMU, BAND-D
3KC69794AA	1830 VWM BMU-P PLUGGABLE FILTER
3KC69795AA	1830 VWM BMU-P CHASSIS
3KC69796AA	SFD-96 96 CHANNEL OPTICAL MUX/DEMUX
3KC69797AA	IPREAMP-BOOSTER/PRE-AMP FOR IROADM
3KC69806AAAA	SWP 1830PSS-8/16II/16/32/24x R9.1.1
3KC69808AAAA	SWPL 1830PSS-8/16II/16/32 R9.1.1
3KC69819AA	OPSB5 - MULTIPOINT OPSB CARD
3KC69822AA	D5X500Q 500G MUX/UL, 5CL, RESTRICTED
3KC69823AA	D5X500Q 500G MUX/UL, 5CL, SUBSEA
3KC69831AA	OPS PROTECTION CARD FOR TX_ RX, OSM-DSV
3KC69929AA	PSS-32 BACKPLANE CONNECTOR COVER W/ TOOL
3KC69939AA	ASWG-L AMP SWITCHED GAIN EDFA L-BAND
3KC69993AA	S2AD200H- 1X100G/200G OT HP UNRESTRICTED
3KC69994AA	PSS-32 BACKPLANE CONNECTOR COVERS (2)
3KC70045AAAA	ESWL-DFC12 100GB PORT 100G MODE LIFE
3KC70046AAAA	ESWL-DFC12 100GB PORT 200G MODE LIFE
3KC70047AAAA	ESWL-DFC12 100GB PORT 300G MODE LIFE
3KC70048AAAA	ESWL-DFC12 100GB PORT 400G MODE LIFE
3KC70049AAAA	ESWL-DFC12 100GB PORT 500G MODE LIFE
3KC70050AAAA	ESWL - RTU 100G LONG HAUL LIFE
3KC70051AAAA	ESWL-RTU 100G REGIONAL LIFE
3KC70053AAAA	ESWL-DFM6 400GB PORT 400G MODE LIFE
3KC70054AAAA	ESWL-RTU CLIENTPORT ETHERNET

3KC70055AAAA	ESWL-D5X500Q UNIDIR REGEN MODE MONTH
3KC70056AAAA	ESWL-D5X500Q UNIDIR REGEN MODE LIFE
3KC70057AAAA	ESWL-RTU CLIENTPORT GENERIC
3KC70058AAAA	ESWL-S4X400L100GB PORT 100G MODE MONTH
3KC70059AAAA	ESWL-S4X400L 100GB PORT 200G MODE MONTH
3KC70060AAAA	ESWL-S4X400L 100GB PORT 300G MODE MONTH
3KC70061AAAA	ESWL-S4X400L 100GB PORT 400G MODE MONTH
3KC70062AAAA	ESWL-S4X400L 100GB PORT 500G MODE MONTH
3KC70063AAAA	ESWL-S2AD200H UNIDIR REGEN MODE LIFE
3KC70064AAAA	ESWL-ALIEN 12.5GHZ MONTH
3KC70065AAAA	ESWL-S2AD200R UNIDIR REGEN MODE LIFE
3KC70073AAAA	SWP 1830PSS-CVT R11.0.0
3KC70076AAAA	SWP 1830PSS-APA R11.0.0
3KC70079AAAA	SWP 1830PSS-EPT R11.0.0 DVD
3KC70082AA	S2AD200H -1X100G/200G OT HP RTU RESTRICT
3KC70084AA	MVACF MULTI VARIABLE ATTENUATOR FLEXGRID
3KC70096AA	SHELF COVER LATCH REPAIR KIT 14.2MM HEAD
3KC70100AAAA	ESWL-ALIEN 12.5GHZ LIFE
3KC70101AAAA	ESWL - RTU UNKEYED SERVICES LIFE
3KC70102AAAA	ESWL-S4X400H UNIDIR REGEN MODE MONTH
3KC70103AAAA	ESWL-S4X400H UNIDIR REGEN MODE LIFE
3KC70104AAAA	ESWL-DD2M4 UNIDIR REGEN MODE LIFE
3KC70111AA	TLU-200 10CH TRANSLATION LINE UNIT
3KC70117AA	EIA FLEX SHELF KIT SLIDING LATCH
3KC70129AAAA	ESWL - RTU WITH PROTECTION MONTH
3KC70130AAAA	ESWL-DFM6 400GB PORT 200G MODE MONTH
3KC70131AAAA	ESWL-RTU WITH ENCRYPTION LIFE
3KC70161AA	MSH8-FSM COVER KIT WITH SLIDING LATCHES
3KC70162AA	1830VWM TYPE 2 FAN UNIT
3KC70163AA	IRDM32 - 32D ROADM SWG C-BAND
3KC70163AB	IRDM32-32D ROADM SWG C-BAND GLS
3KC70175AA	EILA EQUILIZED IN-LINE AMPLIFIER
3KC70186AA	RA4P C BAND RAMAN AMPLIFIER - 4 PUMPS
3KC70203AA	1830VWM TYPE 2 FAN UNIT DUST FILTER
3KC70234AA	MCS1615 MULTICASTSWITCH 16-DEG 15-PORTS
3KC70245AA	SFD 10CH A VARIANT, LM, CH(60-51)
3KC70245AB	SFD 10CH B VARIANT, LM, CH(49-40)
3KC70245AC	SFD 10CH C VARIANT, LM, CH(37-28)
3KC70245AD	SFD 10CH D VARIANT, LM, CH(25-16)
3KC70254AA	1830VWM 1RU TYPE 3 19IN RACK MOUNT BRKT
3KC70254AB	1830VWM 1RU TYPE 3 21IN ETSI RK MT BRKT
3KC70254AC	1830VWM 1RU TYPE 3 23IN WECO RK MT BRKT
3KC70254AD	1830VWM 1RU TYPE 3 23IN EIA RK MT BRKT
3KC70270AA	SHELF 19IN, 0.5RU, 2 SLOTS, TYPE II
3KC70281AA	SHELF 21IN, 0.5RU, 2 SLOTS, TYPE II
3KC70282AA	SHELF 23 IN, 0.5RU, 2 SLOTS, TYPE II
3KC70293AA	SHELF 21IN, 0.5RU, 4 SLOTS, TYPE II
3KC70294AA	SHELF 23 IN, 0.5RU, 4 SLOTS, TYPE II
3KC70341AA	DCM - SMF 10KM, LATENCY MATCHED,CT
3KC70342AA	IRDM32L - 32D ROADM SWG L-BAND

3KC70342AB	IRDM32L-32D ROADM SWG L-BAND GLS
3KC70366AA	S4X400H 4X100G OT SUBSEA UNRESTRICTED
3KC70424AA	OMDCL C+L OPTICAL MUX/DEMUX, OTDR
3KC70514AA	MCS1615L MULTICSTSWTCH 16DEG 15PRT L-BAN
3KC70525AA	EILAL EQUILIZED IN-LINE AMPLIFIER L-BAND
3KC70591AA	ESRE EXTENSION SHELF RANGE EXTENDER
3KC70641AA	1ETY100 CARRIER ETH QSFP28 UPLINK 1X100G
3KC70676AA	S4X400H 4X100G OT UNRESTRICTED
3KC70677AA	S4X400H 4X100G OT RESTRICTED
3KC70692AA	MLFSB MPO-LC BREAKOUT SHUFFLE
3KC70693AA	ASG AMPLIFIER SWITCHED GAIN EDFA
3KC70693AB	ASGLP AMPLIFIER SWITCHED GAIN EDFA LP
3KC70767AA	1830VWM FIBER JUMPER, SIMPLEX BI (420MM)
3KC70803AA	S5AD400H 4X100G 1X400G OT UNRESTRICTED
3KC70817AA	S5AD400H 4X100G 1X400G OT RESTRICTED
3KC70869AA	IR9 - REGIONAL 9D ROADM SWG AMP
3KC70869AB	IR9LP - REGIONAL 9D ROADM SWG AMP LP
3KC70922AAAA	ESWL-D5X500Q 100GB PORT 2X50G MODE MONTH
3KC70923AAAA	ESWL-D5X500Q 100GB PORT 100G MODE MONTH
3KC70924AAAA	ESWL-D5X500Q 100GB PORT 200G MODE MONTH
3KC70925AAAA	ESWL-D5X500Q 100GB PORT 2X250G MODE MNTH
3KC70926AAAA	ESWL-D5X500Q 100GB PORT 100G MODE LIFE
3KC70927AAAA	ESWL-D5X500Q 100GB PORT 200G MODE LIFE
3KC70928AAAA	ESWL-D5X500Q 100GB PORT 2X250G MODE LIFE
3KC70929AAAA	ESWL-D5X500Q 100GB PORT 2X50G MODE LIFE
3KC70930AAAA	ESWL-DD2M4 100GB PORT 100G MODE MONTH
3KC70931AAAA	ESWL-DD2M4 100GB PORT 200G MODE MONTH
3KC70932AAAA	ESWL-DD2M4 100GB PORT 400G MODE MONTH
3KC70933AAAA	ESWL-DD2M4 400GB PORT 400G MODE MONTH
3KC70934AAAA	ESWL-DD2M4 100GB PORT 100G MODE LIFE
3KC70935AAAA	ESWL-RTU METRO S13X100E LIFE
3KC70936AAAA	ESWL-DD2M4 100GB PORT 400G MODE LIFE
3KC70937AAAA	ESWL-DD2M4 400GB PORT 400G MODE LIFE
3KC70938AAAA	ESWL-S5AD400H UNIDIR REGEN MODE MONTH
3KC70939AAAA	ESWL-S5AD400H UNIDIR REGEN MODE LIFE
3KC70940AAAA	ESWL-S4X400L UNIDIR REGEN MODE MONTH
3KC70941AAAA	ESWL-S4X400L UNIDIR REGEN MODE LIFE
3KC70942AAAA	ESWL-DFC12 UNIDIR REGEN MODE MONTH
3KC70943AAAA	ESWL-DFC12 UNIDIR REGEN MODE LIFE
3KC70944AAAA	ESWL-S2AD200H 100GB PORT 100G MODE MONTH
3KC70945AAAA	ESWL-S2AD200H 100GB PORT 200G MODE MONTH
3KC70946AAAA	ESWL-S2AD200H 100GB PORT 100G MODE LIFE
3KC70947AAAA	ESWL-S2AD200H 100GB PORT 200G MODE LIFE
3KC70948AAAA	ESWL-S2AD200R 100GB PORT 100G MODE MONTH
3KC70949AAAA	ESWL-S2AD200R 100GB PORT 200G MODE MONTH
3KC70950AAAA	ESWL-8UC1T SPARE
3KC70951AAAA	ESWL-S2AD200R 100GB PORT 100G MODE LIFE
3KC70952AAAA	ESWL-S2AD200R 100GB PORT 200G MODE LIFE
3KC70953AAAA	ESWL-S2AD200H UNIDIR REGEN MODE MONTH
3KC70954AAAA	ESWL-DFC12 100GB PORT 100G MODE MONTH

3KC70955AAAA	ESWL-DFC12 100GB PORT 200G MODE MONTH
3KC70956AAAA	ESWL-DFC12 100GB PORT 300G MODE MONTH
3KC70957AAAA	ESWL-DFC12 100GB PORT 400G MODE MONTH
3KC70958AAAA	ESWL-DFC12 100GB PORT 500G MODE MONTH
3KC70959AAAA	ESWL-DFC12 SPARE
3KC70960AAAA	ESWL-DFM6 SPARE
3KC70961AAAA	ESWL-DD2M4 SPARE
3KC70962AAAA	ESWL-S4X400H 100GB PORT 100G MODE MONTH
3KC70963AAAA	ESWL-S4X400H 100GB PORT 200G MODE MONTH
3KC70964AAAA	ESWL-S4X400H 100GB PORT 300G MODE MONTH
3KC70965AAAA	ESWL-S4X400H 100GB PORT 400G MODE MONTH
3KC70966AAAA	ESWL-S4X400H 100GB PORT 500G MODE MONTH
3KC70967AAAA	ESWL-2UC400 100GB PORT 100G MONTH
3KC70968AAAA	ESWL-2UC400 100GB PORT 200G MONTH
3KC70969AAAA	ESWL-S4X400H 100GB PORT 100G MODE LIFE
3KC70970AAAA	ESWL-S4X400H 100GB PORT 200G MODE LIFE
3KC70971AAAA	ESWL-S4X400H 100GB PORT 300G MODE LIFE
3KC70972AAAA	ESWL-S4X400H 100GB PORT 400G MODE LIFE
3KC70973AAAA	ESWL-S4X400H 100GB PORT 500G MODE LIFE
3KC70974AAAA	ESWL-2UC400 100GB PORT 100G LIFE
3KC70975AAAA	ESWL-2UC400 100GB PORT 200G LIFE
3KC70976AAAA	ESWL-DFM6 UNIDIR REGEN MODE MONTH
3KC70977AAAA	ESWL-DFM6 UNIDIR REGEN MODE LIFE
3KC70978AAAA	ESWL-DD2M4 UNIDIR REGEN MODE MONTH
3KC70979AAAA	ESWL-S4X400L100GB PORT 100G MODE LIFE
3KC70980AAAA	ESWL-S4X400L 100GB PORT 200G MODE LIFE
3KC70981AAAA	ESWL-S4X400L 100GB PORT 300G MODE LIFE
3KC70982AAAA	ESWL-S4X400L 100GB PORT 400G MODE LIFE
3KC70983AAAA	ESWL-S4X400L 100GB PORT 500G MODE LIFE
3KC70984AAAA	ESWL-RTU OLPS 50G S5AD400 MONTHLY
3KC70985AAAA	ESWL-S5AD400H 100GB PORT 100G MODE MONTH
3KC70986AAAA	ESWL-S5AD400H 100GB PORT 200G MODE MONTH
3KC70987AAAA	ESWL-S5AD400H 100GB PORT 300G MODE MONTH
3KC70988AAAA	ESWL-S5AD400H 100GB PORT 400G MODE MONTH
3KC70989AAAA	ESWL-S5AD400H 400GB PORT 400G MODE MONTH
3KC70990AAAA	ESWL-S5AD400H 100GB PORT 100G MODE LIFE
3KC70991AAAA	ESWL-S5AD400H 100GB PORT 200G MODE LIFE
3KC70992AAAA	ESWL-S5AD400H 100GB PORT 300G MODE LIFE
3KC70993AAAA	ESWL-S5AD400H 100GB PORT 400G MODE LIFE
3KC70994AAAA	ESWL-S5AD400H 400GB PORT 400G MODE LIFE
3KC70995AAAA	ESWL-4UC1T 100GB PORT 200G MODE MONTH
3KC70996AAAA	ESWL-4UC1T 100GB PORT 300G MODE MONTH
3KC70997AAAA	ESWL-4UC1T 100GB PORT 400G MODE MONTH
3KC70998AAAA	ESWL-4UC1T 100GB PORT 200G MODE LIFE
3KC70999AAAA	ESWL-4UC1T 100GB PORT 300G? MODE LIFE
3KC71000AAAA	ESWL-4UC1T 100GB PORT 400G MODE LIFE
3KC71001AAAA	ESWL-8UC1T 100GB PORT 100G MODE MONTH
3KC71002AAAA	ESWL-8UC1T 100GB PORT 200G MODE MONTH
3KC71003AAAA	ESWL-8UC1T 100GB PORT 100G MODE LIFE
3KC71004AAAA	ESWL-8UC1T 100GB PORT 200G MODE LIFE

3KC71005AAAA	ESWL-S4X400L SPARE
3KC71006AAAA	ESWL-4UC1T SPARE
3KC71007AAAA	ESWL-D5X500 SPARE
3KC71008AAAA	ESWL-S2AD200 SPARE
3KC71009AAAA	ESWL-2UC400 SPARE
3KC71010AAAA	ESWL-S4X400 SPARE
3KC71011AAAA	ESWL-S5AD400 SPARE
3KC71012AAAA	ESWL-GENERIC 12.5GHZ LIFE
3KC71013AAAA	ESWL-GENERIC 12.5GHZ MONTH
3KC71053AA	ASC4L -AMPLIFIED SPLITTER/COMBINER LBAND
3KC71058AA	MXN824L CONTENTIONLESS WSS8D24PRTS LBAND
3KC71142AAAA	SWPL 1830PSS-8/16II/16/32 R13.0.0
3KC71145AAAA	SWP KIT 1830PSS SWDM R13.0.0
3KC71152AAAA	SWP 1830PSS ECE R13.0.0
3KC71264AAAA	SWPL 1830PSS-8/16II/16/32 R13.0.4
3KC71270AA	S6AD600E ENCRYPTION UNRESTRICTED
3KC71272AAAA	SWP KIT 1830PSS SWDM R13.0.4
3KC71294AA	MEC2L CONTROLLER KIT - 1830 R13.0
3KC71294AB	MEC2L CONTROLLER KIT - 1830 R13.0.4
3KC71294AC	MEC2L CONTROLLER KIT - 1830 R13.1
3KC71441AAAA	SWPL 1830PSS-8/16II/16/32 R13.1.0
3KC71446AAAA	SWP KIT 1830PSS SWDM R13.1.0
3KC73611AAAA	NFM-T ENHANCED DB 4VCPU
3KC73612AAAA	NFM-T 2 CPU EMBEDDED OS ENHANCEMENT
3KC73640AAAA	NFM-T STANDARD LP
3KC73641AAAA	NFM-T HIGH AVAILABILITY LP
3KC73669AAAA	ESWL NFM-T 19 STANDARD BASE
3KC73716AAAA	ESWL NFM-T 20 APPLICATION ONLY BASE LIC
3KC76608AAAA	NSP 17: NRC-T STANDARD BASE
3KC76610AAAA	NRC - TRANSPORT - SRS
3KC76611AAAA	NRC - TRANSPORT - SRS (NAR ONLY)
3KC76612AAAA	NSP 17: NSD-NRC STANDARD TRANSPORT LP
3KC76613AAAA	NSP 17: NSD-NRC HIGH AVAIL TRANSPORT LP
3KC76616AAAA	NRC-T 18 STANDARD BASE
3KC76617AAAA	NRC STANDARD TRANSPORT LP
3KC76625AAAA	ESWL NRC-T 19 STANDARD BASE
3KC76635AAAA	ESWL NRC-T 20 STANDARD BASE
3KC79654AAAA	ESWP WS SE INFRASTRUCTURE SOFTWARE
3KC79655AAAA	ESWL WS SE SVC UTIL RPT 1G VC
3KC79656AAAA	ESWL WS SE SVC UTIL RPT 10G VC
3KC79657AAAA	ESWL WS SE SVC UTIL RPT 100G VC
3KC79660AAAA	ESWL WS SE SVC AVAIL RPT 1G VC
3KC79661AAAA	ESWL WS SE SVC AVAIL RPT 10G VC
3KC79662AAAA	ESWL WS SE SVC AVAIL RPT 100G VC
3KC79665AAAA	ESWL WS SE SVC LATENCY RPT 1G VC
3KC79666AAAA	ESWL WS SE SVC LATENCY RPT 10G VC
3KC79667AAAA	ESWL WS SE SVC LATENCY RPT 100G VC
3KC79668AAAA	ESWL WS SE SVC LATENCY RPT 10G L1 CRYPT
3KC79669AAAA	ESWL WS SE SVC LATENCY RPT 100G L1 CRYPT
3KC79670AAAA	ESWL WS SE SVC DASHBOARD 1G VC

3KC79671AAAA	ESWL WS SE SVC DASHBOARD 10G VC
3KC79672AAAA	ESWL WS SE SVC DASHBOARD 100G VC
3KC79747AAAA	ESWL NETHSM ANNUAL SRS
3KC79748AAAA	ESWL WAVESUITE H AND A INFRA (NAR ONLY)
3KC79749AAAA	ESWL WAVESUITE H AND A SRS (NAR ONLY)
3KC81709AA	FANM - PSI-M FAN ASSEMBLY
3KC81741AA	DA2C4 100G/200G MODULE
3KC81770AA	PSI-M SHELF KIT (2XMEC2 5XFANM 3XBLANK)
3KC81775AA	MEC2 - PSI-M EQUIPMENT CONTROLLER
3KC81775AC	MEC2L - EQUIPT CONTROLLER HP - PSI-L
3KC81780AA	PSI-M SLOT BLANK
3KC81791AA	PSI-M SHELF CHASSIS
3KC81801AA	DFC12E ENCRYPTION SUBSEA UNRESTRICTED
3KC81807AAAA	SWP 1830PSI-M R3.0.0
3KC81830AA	KIT-EXT MNTG BRKTS 24-36IN MNTG RANGE
3KC81868AA	DA2C4E 100G/200G MODULE WITH ENCRYPTION
3KC81885AAAA	SWP 1830PSI-M R3.1.0
3KC81888AAAA	SWPL-1830PSI-M R3.1.0
3KC81890AA	DFC12 TERRESTRIAL UNRESTRICTED
3KC81894AAAA	SWP 1830PSI-M R3.2.0
3KC81897AAAA	SWPL-1830PSI-M R3.2.0
3KC81972AA	MEC2 - PSI-M MEC2 REPLACEMENT KIT
3KC82002AA	KIT - DA2C4 PLUGGABLE KIT
3KC82040AAAA	SWP 1830PSI-M R4.0
3KC82042AAAA	SWPL 1830PSI-M R4.0
3KC82061AA	M-BLANK2 PSI-M DOUBLE WIDE BLANK
3KC82073AA	DFM6E TERRESTRIAL ENCRYPTION UNRESTRICTE
3KC82081AA	DFC12E ENCRYPTION UNRESTRICTED
3KC82125AAAA	SWP 1830PSI-M R4.0.4
3KC82128AAAA	SWPL 1830PSIM R4.0.4
3KC82154AA	DFC12 SUBSEA UNRESTRICTED
3KC82164AAAA	SWP 1830PSI-M R5.0
3KC82190AAAA	SWP 1830 PSI-M R4.0.5
3KC82219AAAA	ESWP 1830PSI-M R5.0.4
3KC82231AA	SFM6E ENCRYPTION UNRESTRICTED
3KC86714AA	WAVELITE METRO 200 AND FAN
3KC86714AB	WAVELITE METRO 200 AND F2B FAN
3KC86714BA	WAVELITE METRO 200 NE AND F2B FAN
3KC86715AA	WAVELITE METRO 200 WITH OPS AND FAN
3KC86715AB	WAVELITE METRO 200 W/ OPS AND F2B FAN
3KC86715BA	WAVELITE METRO 200 NE W/OPS AND F2B FAN
3KC86716AA	WAVELITE ACCESS 200 AND FAN
3KC86716AB	WAVELITE ACCESS 200 AND F2B FAN
3KC86716BA	WAVELITE ACCESS 200 NE AND F2B FAN
3KC86717AA	WAVELITE METRO 20 AND FAN
3KC86718AA	WAVELITE MUX 16 WITH OPS AND FAN
3KC86719AA	WAVELITE MUX 16 AND FAN
3KC86720AA	WAVELITE AMPLIFIER AND FAN
3KC86721AA	RACK MOUNTING KIT-ETSI 21 IN
3KC86722AA	RACK MOUNTING KIT-23 IN

3KC86723AA	RACK MOUNTING KIT-19 IN
3KC86724AA	WAVELITE DC PSU 400W
3KC86724AB	WAVELITE DC PSU 400W F2B
3KC86725AA	WAVELITE AC PSU 400W
3KC86725AB	WAVELITE AC PSU 400W F2B
3KC86726AA	WAVELITE DC PSU 120W
3KC86727AA	WAVELITE AC PSU 120W
3KC86731AA	AC POWER CABLE-NORTH AMERICA 3M
3KC86735AA	FAN UNIT WAVELITE METRO 200/ACCESS 200
3KC86735AB	FAN UNIT WAVELITE METRO/ACCESS 200 F2B
3KC86736AA	FAN UNIT WAVELITE METRO 20/AMP/MUX16
3KC86737AAAA	ESWL CLIENT SFP/ SFP+
3KC86738AAAA	ESWL CLIENT QSFP+
3KC86739AAAA	ESWL CLIENT QSFP28
3KC86741AAAA	ESWL WL ACCESS 200 CAPACITY INCR TO 200G
3KC86742AAAA	ESWL ENCRYPTION
3KC86744AAAA	ESWL WAVELITE METRO 200
3KC86745AAAA	ESWL WAVELITE ACCESS 200
3KC86746AAAA	ESWL-WAVELITE METRO 20
3KC86747AAAA	ESWL WAVELITE MUX 16
3KC86748AAAA	ESWL WAVELITE AMPLIFIER
3KC86755AA	AC POWER CABLE - IEC 60320 C5-C20
3KC86756AAAA	ESWL WL METRO 20 CAPACITY INCR TO 20G
3KC86757AAAA	ESWL WL METRO 20 SNCP PROT ACTIVATION
3KC86758AAAA	ESWL WL ACCESS 200 SNCP PROT ACTIVATION
3KC86766AA	BREAK-OUT CABLE MMF 5M QSFP+/4XSFP+
3KC86774AAAA	ESWP WL METRO/ACCESS 200 R1.1 APPL.
3KC86774ABAA	ESWP WL METRO/ACCESS 200 R1.1.1 APPL.
3KC86776AAAA	ESWP WL METRO 20 R1.1 APPL.
3KC86778AAAA	ESWP WL MUX 16/AMPLIFIER R1.1 APPL.
3KC86780AA	BLANK FOR PSU 120W WL METRO20/MUX16/AMP
3KC86781AA	BLANK FOR PSU 400W WL METRO/ACCESS 200
3KC86781AB	BLANK FOR PSU 400W F2B
3KC86795AA	AC POWER CABLE - BRAZIL
3KC86796AA	BREAK-OUT CABLE SMF 5M QSFP+ TO 4xSFP+
3KC86797AA	AC POWER CABLE-INDIA/S. AFRICA TYPE D 3M
3KC86798AA	AC SURGE SUPPRESSOR PROTECTIVE DEVICE
3KC86800AAAA	ESWP WL METRO/ACCESS 200 R1.2 APPL.
3KC86800ABAA	ESWP WL METRO/ACCESS 200 R1.2.1 APPL.
3KC86813AA	SLIDING RAIL RACK MOUNTING KIT
3KC86823AAAA	ESWP WL METRO/ACCESS 200 R1.3 APPL.
3KC90064ABAA	SWP-1830 ONE A R.01.01.01
3KC90067ABAA	SWP-1830 ONE H R.01.01.01
3KC90075AA	EPS SHELF
3KC90076AA	E1 EPS BOARD 75 OHM
3KC90076AB	E1 EPS BOARD 120 OHM
3KC90077AA	E1 EPS DUMMY PLATE
3KC90082AAAA	SWP-1830 ONE A R.01.02.00
3KC90082ABAA	SWP-1830 ONE A R.01.02.01
3KC90085AAAA	SWP-1830 ONE H R.01.02.00

3KC90085ABAA	SWP-1830 ONE H R.01.02.01
3KC90088AA	I/O OTN SWITCH GE/10GE/STM-n/OTU1 + OTU2
3KC90090AA	I/O OTN SWITCH 1/10GE/STM-n/OTU1-4QSFP28
3KC90093AAAA	SWP-1830 ONE A R.02.00.00
3KC90096AAAA	SWP-1830 ONE H R.02.00.00
3KC90107AA	BLANK FOR 2 PSF-MP CARDS
3KC90108AA	BLANK FOR FAN TRAY
3KC90126AA	SINGLE CHAN. TUNABLE FILTER, ADD VOA
3KC90129AA	DWDM MUX/DEMUX 16CH
3KC90130AA	DWDM OADM CH25 - CH26 UNIDIR
3KC90130AB	DWDM OADM CH27 - CH28 UNIDIR
3KC90130AC	DWDM OADM CH29 - CH30 UNIDIR
3KC90130AD	DWDM OADM CH31 - CH32 UNIDIR
3KC90130AE	DWDM OADM CH33 - CH34 UNIDIR
3KC90130AF	DWDM OADM CH35 - CH36 UNIDIR
3KC90130AG	DWDM OADM CH37 - CH38 UNIDIR
3KC90130AH	DWDM OADM CH39 - CH40 UNIDIR
3KC90131AA	DWDM OADM CH25-C2H6-CH27-CH28 UNIDIR
3KC90131AB	DWDM OADM CH29-CH30-CH31-CH32 UNIDIR
3KC90131AC	DWDM OADM CH33-CH34-CH35-CH36 UNIDIR
3KC90131AD	DWDM OADM CH37-CH38-CH39-CH40 UNIDIR
3KC90138AAAA	SWP-1830 ONE M R.02.02.00
3KC90142AAAA	SWP-1830 ONE A R.02.01.00
3KC90142ABAA	SWP-1830 ONE A R.02.01.01
3KC90142ACAA	SWP-1830 ONE A R.02.01.02
3KC90145AAAA	SWP-1830 ONE H R.02.01.00
3KC90145ABAA	SWP-1830 ONE H R.02.01.01
3KC90145ACAA	SWP-1830 ONE H R.02.01.02
3KC90149AA	M2PCS1X2 PLUG 2 x 1:2 COUPL/SPLITTER
3KC90213AA	PSILMFC MULTI-FUNCTION CARD PSI-L
3KC90235AA	PSI-L 8-SLOT CHASSIS
3KC90259AA	PSI-L FAN
3KC90291AA	PSI-L 8-SLOT SHELF KIT
3KC90297AA	PSILPFDC - DC POWER SUPPLY PSI-L
3KC90300AA	PSI-L MEC2 CONTROLLER BLANK
3KC90320AA	PSI-L 8-SLOT CABLE BRACKET ASSEMBLY
3KC90321AB	PSI-L FRONT COVER
3KC90328AA	PSI-L POWER SUPPLY BLANK
3KC90374AA	PSI-L 8L 19IN 2-POST EIA INSTALLATION KI
3KC90376AA	PSI-L 8L ETSI RACK INSTALLATION KIT
3KC90395AA	PSILPFAC - AC POWER SUPPLY PSI-L
3KC90774AB	1830 TPS-24 PWR CABLE W/GOLD PLATING
3KC90818AA	CA-CS FIBER JUMPER, 420MM
3KC90818AB	CA-CS FIBER JUMPER, 1.4M
3KC90818AC	CA-CS FIBER JUMPER, 3.5M
3KC91738AA	MEC2L CONTROLLER KIT - OLS R2.0
3KC91738AB	MEC2L CONTROLLER KIT - OLS R2.1
3KC95005AAAA	ESWL WSO - TRANSPORT - SRS
3KC95006AAAA	WSO - TRANSPORT SRS (NAR ONLY)
3KC95007AAAA	ESWL WSO STANDARD TRANSPORT LP

3KC95008AAAA	ESWL WSO 20 STANDARD BASE
3TD00011AA	XPSF8 - POWER SUPPLY FILTER PSS-8X
3TD00014AA	XMFC - MULTI FUNCTION CARD
3TD00019AA	20MX80 - 20 X 10/SUB 10G CLIENT
3TD00026AA	20AX200 - 20 X 10G CLIENT/UPLINK
3TD00030AA	XCEC8-CLOCK AND EQUIPMENT CONTROL PSS-8X
3TD00055AA	XST1T6 - 1.6T OTN SWITCH FABRIC
3TD00070AA	XFAN8 - FAN MODULE PSS-8X
3TD00072AA	PSS8X - SHELF PSS-8X
3TD00096AA	1UX100 - 1 X 100G COHERENT UPLINK
3TD00123AA	IOC-BLANK
3TD00124AB	XTIC-BLANK
3TD00128AA	XSSC - SHELF SENSOR CARD
3TD00287AA	PSS12X - SHELF PSS-12X
3TD00343AA	IO SLOT DIVIDER
3TD00358AA	PSS-8X SHELF KIT
3TD00451AA	XFAN12 - FAN MODULE PSS-12X
3TD00470AA	DUST FILTER SPARE PART PSS-8X
3TD00483AA	XST4T8 - 4.8T OTN SWITCH FABRIC
3TD00493AA	2UX200 - 2X100G / 1X200G COHERENT UPLINK
3TD00528AA	PSS-12X SLOT DIVIDER TOOL
3TD00555AA	XCEC12 - CLOCK AND EQUIP CONTROL PSS-12X
3TD00579AA	4MX200 - 2X 100G/4X 40G CLIENT
3TD00626AAAA	ESWL - RTU LIC 1830PSS-8X 100G CAP
3TD00627AAAA	ESWL - RTU LIC 1830PSS-8X 100G CAP GMRE
3TD00664AA	PSS12X - SHELF KIT PSS-12X (OTN)
3TD00742AA	DUST FILTER SPARE PART PSS-12X
3TD09046AA	XPSF8 - POWER SUPPLY FILTER PSS-8X ANSI
3TD10006AA	ETSI SHELF KIT (MECHA) PSS-8X
3TD10007AA	ETSI/ANSI KIT (CABLES)
3TD10008AA	AIR INLET ETSI PSS-8X
3TD10013AA	RACK LAMP OUT RALED
3TD10014AA	RACK LAMPS DAISY CHAIN CABLE
3TD10021AA	AIR INLET ANSI PSS-8X
3TD10023AA	CA - HK IN/OUT LENGHT 10 METERS
3TD10023AB	CA - HK IN/OUT LENGHT 30 METERS
3TD10025AA	XPSF12 - POWER SUPPLY FILTER PSS-12X
3TD10030AA	CA - REMOTE ALARM CABLE
3TD10040AA	ANSI SNBF RACK KIT 23IN PSS8X
3TD10041AA	ANSI SHELF KIT (MECHA) PSS-8X
3TD10064AA	EIA SHELF KIT 19 INCHES (MECHA)
3TD10065AA	AIR OUTLET EIA PSS-8X
3TD10078AA	KIT- EIA FRONT COVER KIT 19 INCHES
3TD10099AA	ETSI/ANSI POWER CABLE KIT
3TD10126AA	ANSI SHELF KIT (MECHA) PSS-12X
3TD10128AA	ANSI RACK MECHANICAL KIT
3TD10147AA	ETSI SHELF KIT (MECHA) PSS-12X
3TD10180AA	ETSI RACK TOP BAFFLE
3TD10200AA	INSTALLATION KIT 1 (PDU)
3TD10201AA	INSTALLATION KIT 2 (TRU)

8DG03545AA	PSS4 DC POWER CABLE TI
8DG03546AA	PSS8 DC POWER CABLE TI
8DG03550AA	ONE RACK LOCK FIBERS KIT
8DG07796AA	MA-COMplete SHelf
8DG07796AAAA	MECHANICAL ADAPTER GUIDE
8DG08351AA	CA-MATRIX CABLE (NAR), 5M, SHIElDED CAT5
8DG08352AA	CA-MATRIX CABLE (NAR), 10M, SHIElDED CAT
8DG08353AA	CA-MATRIX CABL 20M, SHLD CAT5E, PVC ANSI
8DG08354AA	CA-MATRIX CABL 30M, SHLD CAT5E, PVC ANSI
8DG08355AA	CA-MATRIX CABL 40M, SHLD CAT5E, PVC ANSI
8DG08356AA	CA-MATRIX CABL 50M, SHLD CAT5E, PVC (ANS
8DG08357AA	CA-MATRIX CABL 60M, SHID CAT5E, PVC (ANS
8DG08359AA	CA-INVENTORY CABLE (2.3M), SHIElDED CAT5
8DG08360AA	CA-INVENTORY CABLE (5.5M), SHIElDED CAT5
8DG08361AA	CA-INVENTORY CABLE (7M), SHIElDED CAT5E,
8DG08361AB	CA-INVENTORY CABLE (NAR)(11M), SHIElDE
8DG08361AC	CA-INVENTORY CABLE(NAR) (0.92M),SHIElDED
8DG08361AE	CA-INVENTORY CABLE (NAR) (30M), SHIElDED
8DG08361AF	CA-INVENTORY CABLE (NAR) (20M), SHIElDED
8DG08368AA	CA-MATRIX CABLE (NAR), 2M, SHIElDED CAT5
8DG08381AA	SFP / XFP EXTRACTOR
8DG08381AAAA	SFP / XFP EXTRACTOR
8DG09195AA	ALARM PANEL
8DG09811AA	HSLADA-HALF SLOT ADAPTER
8DG09825AA	RACK COVER 1U
8DG09825AAAA	RACK COVER 1U
8DG09826AA	RACK COVER 2U
8DG09826AAAA	RACK COVER 2U
8DG59240AA	User Interface Panel
8DG59240AAXX	USER INTERFACE PANEL
8DG59240AB	USER INTERFACE PANL PSS32 FIPS CERTIFIED
8DG59240BA	USER INTERFACE PANEL V2
8DG59242BA	DC POWER FILTER (70A) W/ V MONITORING
8DG59242BAXX	DC POWER FILTER (70A) W/ V MONITORING
8DG59242BB	DC POWER FILTER (50A) W/ V MONITORING
8DG59242BBXX	DC POWER FILTER (50A) W/ V MONITORING
8DG59242BC	DC POWER FILTER (30A) W/ V MONITORING
8DG59242BCXX	DC POWER FILTER (30A) W/ V MONITORING
8DG59242BD	DC POWER FILTER (20A) W/ V MONITORING
8DG59242BDXX	DC POWER FILTER (20A) W/ V MONITORING
8DG59242BE	DC POWER FILTER (60A) W/ V MONITORING
8DG59242BEXX	DC POWER FILTER (60A) W/ V MONITORING
8DG59242DA	PFDC70 - DC PF 70A W/V MONITORING VER B2
8DG59243AB	High Power PSS-32 Fan Tray
8DG59243ABXX	HIGH POWER PSS-32 FAN TRAY
8DG59243BB	HIGH OUTPUT PSS-32 FAN TRAY
8DG59243CB	HIGH OUTPUT PSS-32 FAN TRAY V2
8DG59245AB	AHPHG - HPOWER HGAIN DWDM AMPLIFIER
8DG59245BA	AHPHG - HPOWER HGAIN DWDM AMPLIFIER V2
8DG59247AA	Enhanced Optical Protection Switch Pack

8DG59247AAXX	ENHANCED OPTICAL PROTECTION SWITCH PACK
8DG59247AB	ENHANCED OPS PACK, NON-LATCHING
8DG59247ABXX	ENHANCED OPS PACK, NON-LATCHING
8DG59248AA	OEM-44 CHANNEL OPTICAL MUX/DEMUX
8DG59248AAXX	44 CHANNEL OPTICAL MUX/DEMUX
8DG59319AB	CENTRALOFFICESHELF-PSS32,325MMDEPTH(Z25)
8DG59320AA	OEM-AIR FILTER
8DG59320AAXX	AIR FILTER
8DG59348AA	MA- COMPLETE FRONT COVER
8DG59348AAXX	CO SHELF COVER - LARGE -(PSS-32)
8DG59354AA	MA-BLANK USER PANEL FACEPLATE ASSEMBLY
8DG59354AAXX	USER PANEL BLANK
8DG59417AA	KIT-DCM SHELF KIT (19In EIA)
8DG59417AAXX	KIT-DCM SHELF KIT (19 INCH EIA)
8DG59417AB	KIT-DCM SHELF KIT (ANSI/ETSI)
8DG59417ABXX	KIT-DCM SHELF (ANSI/ETSI)
8DG59418AA	MA-FULL SLOT BLANK
8DG59418AAXX	FULL SLOT BLANK
8DG59419AA	MA-HALF SLOT BLANK
8DG59419AAXX	HALF SLOT BLANK
8DG59420AA	MA-EQUIPMENT CONTROLLER BLANK
8DG59420AAXX	EQUIPMENT CONTROLLER BLANK
8DG59421AA	MA-TIMING INTERFACE BLANK
8DG59421AAXX	TIMING INTERFACE BLANK
8DG59423AA	DCM010 - 10km DCM
8DG59423AAXX	DCM - SMF 10KM
8DG59424AA	DCM020 - 20km DCM
8DG59424AAXX	DCM - SMF 20KM
8DG59424AB	OEM-DCM - TWRS 20 KM
8DG59424ABXX	DCM - TWRS 20 KM
8DG59424AC	OEM-DCM - ELEAF 20 KM
8DG59424ACXX	DCM - ELEAF 20 KM
8DG59425AA	DCM030 - 30km DCM
8DG59425AAXX	DCM - SMF 30KM
8DG59426AA	DCM040 - 40km DCM
8DG59426AAXX	DCM - SMF 40KM
8DG59426AB	OEM-DCM - TWRS 40 KM
8DG59426ABXX	DCM - TWRS 40 KM
8DG59426AC	OEM-DCM - ELEAF 40 KM
8DG59426ACXX	DCM - ELEAF 40 KM
8DG59427AA	DCM050 - 50km DCM
8DG59427AAXX	DCM - SMF 50KM
8DG59428AA	DCM060 - 60km DCM
8DG59428AAXX	DCM - SMF 60KM
8DG59428AB	OEM-DCM - TWRS 60 KM
8DG59428ABXX	DCM - TWRS 60 KM
8DG59428AC	OEM-DCM - ELEAF 60 KM
8DG59428ACXX	DCM - ELEAF 60 KM
8DG59429AA	DCM070 - 70km DCM
8DG59429AAXX	DCM - SMF 70KM

8DG59430AA	DCM080 - 80km DCM
8DG59430AAXX	DCM - SMF 80KM
8DG59430AB	OEM-DCM - TWRS 80 KM
8DG59430ABXX	DCM - TWRS 80 KM
8DG59430AC	OEM-DCM - ELEAF 80 KM
8DG59430ACXX	DCM - ELEAF 80 KM
8DG59431AA	OEM-DCM SSMF 90km
8DG59431AAXX	DCM - SMF 90KM
8DG59432AA	DCM100 - 100km DCM
8DG59432AAXX	DCM - SMF 100KM
8DG59432AB	OEM-DCM - TWRS 100 KM
8DG59432ABXX	DCM - TWRS 100 KM
8DG59432AC	OEM-DCM - ELEAF 100 KM
8DG59432ACXX	DCM - ELEAF 100 KM
8DG59433AA	DCM - SMF 110KM
8DG59433AAXX	DCM - SMF 110KM
8DG59434AA	OEM-DCM SSMF 120km
8DG59434AAXX	DCM - SMF 120KM
8DG59434AB	OEM-DCM - TWRS 120 KM
8DG59434ABXX	DCM - TWRS 120 KM
8DG59434AC	OEM-DCM - ELEAF 120 KM
8DG59434ACXX	DCM - ELEAF 120 KM
8DG59435AA	OEM-DCM SSMF 130km
8DG59435AAXX	DCM - SMF 130KM
8DG59436AA	DCM - SMF 140KM
8DG59436AAXX	DCM - SMF 140KM
8DG59437AA	Static Filter DWDM 5 Channel (A Variant)
8DG59437AAXX	STATIC FILTER DWDM 5 CHANNEL (A)
8DG59437AB	Static Filter DWDM 5 Channel (B Variant)
8DG59437ABXX	STATIC FILTER DWDM 5 CHANNEL (B)
8DG59437AC	Static Filter DWDM 5 Channel (C Variant)
8DG59437ACXX	STATIC FILTER DWDM 5 CHANNEL (C)
8DG59437AD	Static Filter DWDM 5 Channel (D Variant)
8DG59437ADXX	STATIC FILTER DWDM 5 CHANNEL (D)
8DG59437AE	Static Filter DWDM 5 Channel (E Variant)
8DG59437AEXX	STATIC FILTER DWDM 5 CHANNEL (E)
8DG59437AF	Static Filter DWDM 5 Channel (F Variant)
8DG59437AFXX	STATIC FILTER DWDM 5 CHANNEL (F)
8DG59437AG	Static Filter DWDM 5 Channel (G Variant)
8DG59437AGXX	STATIC FILTER DWDM 5 CHANNEL (G)
8DG59437AH	Static Filter DWDM 5 Channel (H Variant)
8DG59437AHXX	STATIC FILTER DWDM 5 CHANNEL (H)
8DG59441AA	Static Filter CWDM 4 Channel (A Variant)
8DG59441AAXX	STATIC FILTER CWDM 4 CHANNEL (A)
8DG59441AB	Static Filter CWDM 4 Channel (B Variant)
8DG59441ABXX	STATIC FILTER CWDM 4 CHANNEL (B)
8DG59442AA	Static Filter CWDM 8 Channel
8DG59442AAXX	STATIC FILTER CWDM 8 CHANNEL
8DG59451BA	CA-POWER CABLE, RED
8DG59451BAXX	CA-POWER CABLE, RED

8DG59451BB	CA-POWER CABLE, BLUE
8DG59451BBXX	CA-POWER CABLE, BLUE
8DG59518AB	Flex Shelf Cover - EIA
8DG59518ABXX	FLEX SHELF COVER
8DG59535AA	MA-1U COVER ASSY
8DG59535AAXX	CO SHELF BAFFLE COVER - (PSS-32)
8DG59602AB	KIT-FLEX SHELF (23In ANSI WECO)
8DG59602ABXX	KIT-FLEX SHELF (23 INCH ANSI WECO)
8DG59603AA	KIT-OMD INSTALLATION KIT
8DG59603AAXX	KIT-OMD INSTALLATION KIT
8DG59604BA	INSTALL KIT PSS32 NAR(EIA/ANSI)W/ Z25 EX
8DG59613AA	KIT-TOOL KIT
8DG59613AAXX	KIT-TOOL KIT
8DG59614AA	MA-LC FIBER REMOVAL TOOL
8DG59614AAXX	MA-LC FIBER REMOVAL TOOL
8DG59642AA	MA-1830ED HALF SLOT ADAPTER
8DG59642AAXX	HALF SLOT ADAPTER (FILTER SLOT)
8DG59720AAAA	ESWL-1830 PSS R1.0 SOFTWARE LICENSE FEE
8DG59723AAAA	ESWL-WDM BLADE LICENSE POINT FEE
8DG59724AA	EMA-1830 Y ADAPTER ASSEMBLY
8DG59724AAXX	FOADM INVENTORY CABLE ADAPTER
8DG59726AAAA	ESWL-TDM BLADE LICENSE POINT FEE
8DG59727AAAA	ESWL-PHOTONICS VERS (A) ETH LP
8DG59727ABAA	ESWL ETHERNET BLADE LIC. POINT FEE N-E
8DG59729BA	CA-ETSI 1830 PWR CABLE ASSY, A FEED (3.6
8DG59729BAXX	CA-ETSI 1830 PWR CABLE ASSY, A FEED (3.6
8DG59747AAAA	ESWL-1354 PHM R6.0 UPGRADE
8DG59841AA	88 Channel Interleaver
8DG59841AAXX	88 CHANNEL INTERLEAVER
8DG59841AB	88 Channel Interleaver (unidirectional)
8DG59841ABXX	88 CHANNEL INTERLEAVER (UNIDIRECTIONAL)
8DG59857AA	44 Channel Opt. Mux/Demux - 50GHz offset
8DG59857AAXX	44 CHANNEL OPTICAL MUX/DEMUX - 50GHZ OFF
8DG59945BA	AHPLG - HPOWER LGAIN DWDM AMPLIFIER V2
8DG60017AAAA	ESWL-1830PSS EPT FIRST YEAR
8DG60018AAAA	ESWL-1830PSS EPT FOLLOWING YEAR
8DG60129AC	PSS32 EIA/NAR COVER EXTENDER KIT
8DG60129ACXX	PSS32 EIA/NAR COVER EXTENDER KIT
8DG60130AA	OMD COVER KIT (EIA)
8DG60130AAXX	OMD COVER KIT (EIA)
8DG60130AB	OMD COVER KIT (ANSI)
8DG60130ABXX	OMD COVER KIT (ANSI)
8DG60130AC	OMD COVER KIT (ETSI)
8DG60130AD	SFD 44 INSTALL KIT 19IN 4-POST W-COVER
8DG60131AA	DCM COVER KIT (EIA)
8DG60131AAXX	DCM COVER KIT (EIA)
8DG60131AB	DCM COVER KIT (ANSI)
8DG60131ABXX	DCM COVER KIT (ANSI)
8DG60131AC	DCM COVER KIT (ETSI)
8DG60207AAAA	ESWL-1830 PSS WAVELENGTH TRACKER SOFTWARE

8DG60207ABAA	ESWL 1830PSS WL TRACKER SW LIC FEE N-E
8DG60210AA	Static Filter DWDM 8 Channel (A Variant)
8DG60210AAXX	STATIC FILTER DWDM 8 CHANNEL (A VARIANT)
8DG60210AB	Static Filter DWDM 8 Channel (B Variant)
8DG60210ABXX	STATIC FILTER DWDM 8 CHANNEL - B VARIANT
8DG60210AC	Static Filter DWDM 8 Channel (C Variant)
8DG60210ACXX	STATIC FILTER DWDM 8 CHANNEL (C VARIANT)
8DG60210AD	Static Filter DWDM 8 Channel (D Variant)
8DG60210ADXX	STATIC FILTER DWDM 8 CHANNEL (D VARIANT)
8DG60227AAAA	PRE-STAGING 1830PSS-16/32 STANDARD
8DG60227ABAA	PRE-STAGING 1830PSS-16/32 EXTRA TEST
8DG60227ACAA	PRE-STAGING 1830PSS-16/32 EXTRA TEMP
8DG60227ADAA	PRE-STAGING 1830PSS-16/32 EXTRA TIME
8DG60242BA	A2325A 23DBM VGAIN AMP W/DCM ACCESS V2
8DG60349BA	11QPA4 - 11G QP ANY 4C (-5-65C) V2
8DG60565HA	LATENCY MATCHED AM2318A LOW VAR GAIN AMP
8DG60568AA	MESH EXTENSION PACK (EXTERNAL COUPLER CA
8DG60568AAXX	MESH EXTENSION PACK (EXTERNAL COUPLER CA
8DG60788AA	PDU BRIDGING/JUMPER KIT
8DG60788AAXX	PDU BRIDGING/JUMPER KIT
8DG60912HA	LATENCY MATCHED AM2125B MED VAR GAIN AMP
8DG60953AAAA	ESWL-1830 PSS APPLICATION WDM GMPLS
8DG60953ACAA	ESWL 1830PSS APPLICATION WDM GMPLS N-E
8DG60968AA	16GB EC FLASHCARD UPGRADE KIT (PSS-32)
8DG60968AAXX	16GB EC FLASHCARD UPGRADE KIT (PSS-32)
8DG61092AAAA	ESWL-1830PSS SW LICENSE WAN ACCELERATION
8DG61218AAAA	ESWL-1830PSS 100GPAYG LIC CERTIFICATE 2P
8DG61223AB	WR8-88AF-8CH WL ROUTER-ADD SIDE FLEXGRID
8DG61285AB	11OPE8 -CARRIER ETHERNET MUXOT,8X10GBE/O
8DG61330AA	WTOCM-F WTOCM W/ FLEX CAPABILITY
8DG61406AA	MSH8-FSM MESH 8D FIBSHUF ANSI
8DG61406AC	MSH8-FSM MESH 8D FIBSHUF FOC
8DG61406AD	MSH8-FSM MESH 8D FIBSHUF ETSI
8DG61416AAAA	ESWL-KMT LICENSE PER WAVELENGTH
8DG61457AAAA	ESWL-ENCRYPTION LICENSE PER PORT
8DG61458AAXX	SAN ENC KIT (11QPEN4 + SWL FOR 1-PORT)
8DG61487AA	PSS-32 Z25 EXT. SHELF COVER
8DG61510AA	TAMPER RESISTANT LABEL KIT
8DG61581AA	11QCE12X-CARRIERETHRNTMUXOT4X10GBE/OTU2E
8DG61839AA	WR20-TF - 1X20 TWIN FLEX WSS
8DG61978AAAA	ESWL 1830PSS SWITCHED OTN NODAL SWLICUPG
8DG61979AAAA	ESWL 1830CNV OTN/XOADM WT&NODAL SWLICUPG
8DG61980AAAA	ESWL 1830PSS SWITCHED OTN NODAL SW LIC
8DG61981AAAA	ESWL 1830 CNVG OTN/XOADM WT&NODAL SWLIC
8DG61982AAAA	ESWL 1830PSS ILA/DGE WT&NODAL SW LIC UPG
8DG61983AAAA	ESWL 1830PSS WDM XOADM WT&NODAL SWLICUPG
8DG61984AAAA	ESWL 1830PSS ILA/DGE WT & NODAL SW LIC
8DG61985AAAA	ESWL 1830PSS XOADM WT & NODAL SWLIC
8DG62041AAAA	ESWL-1830PSS EPT PLUS USER 1YR
8DG62145AB	MAINSHELFKIT-PSS32,HC FAN,325MDEPTH(Z25)

8DG62146AB	EXTSHELF KIT-PSS32,HC FAN,325MDEPTH(Z25)
8DG62367AA	1RU INSTALLATION KIT
8DG62413AA	PSC1-6 - PASSIVE SPLITTER/COMBINER
8DG62423AA	1RU COVER KIT
8DG62444AA	IROADMF-INTEGRATED ROADM BLADE WFG AMP
8DG62445AB	IROADMV INTEGRATED ROADM BLADE W/ VG AMP
8DG62461AA	CA-INVENTORY, ETSI (.92M)
8DG62461AB	CA-INVENTORY, ETSI (2.3M)
8DG62461AC	CA-INVENTORY, ETSI (5.5M)
8DG62461AD	CA-INVENTORY, ETSI (7M)
8DG62471AA	20P200 - 20X10G C/L PROGRAMMABLE CARD
8DG62474AA	MCS8-16 MULTICASTSWITCH 8-DEG 16-PORTS
8DG62496AA	A4PSWG HYBRID AMP 4 RP + SG EDFA
8DG62497AA	AAR-8A AMP ARRAY 8-AMPS
8DG62498AA	ASWG AMPLIFIER, SWITCHED GAIN EDFA
8DG62498AB	ASWG AMPLIFIER, SWITCHED GAIN EDFA LP
8DG62498AC	ASWG AMP SWITCHED GAIN EDFA INV PORT
8DG62498AD	ASWG AMP SWITCHED GAIN EDFA LP INV PORT
8DG62504AA	OTDR FOR FIBER CHARACTERIZATION
8DG62519AA	WR20-TFM TWIN 1X20 W/ MPO CONNECTORS
8DG62546AAAA	SWPL 1830PSS-OCS R3.0.6
8DG62635AA	32EC2 - HP EQUIPMENT CONTROLLER
8DG62635BA	32EC2 - HP EQUIPMENT CONTROLLER V2
8DG62635CA	32EC2 - EQUIPT CONTROLLER EM - PSS16II
8DG62646AA	MPO CABLE NAR (3.5M)
8DG62646AB	MPO CABLE NAR (7M)
8DG62646AC	MPO CABLE NAR (10M)
8DG62646AD	MPO CABLE NAR (15M)
8DG62665AAAA	ESWL - RTU 260SCX2 200G MODE
8DG62666AAAA	ESWL - RTU 260SCX2 100G MODE
8DG62667AA	JUMPER, MPO, ETSI 3.5M
8DG62667AB	JUMPER, MPO, ETSI, 7M
8DG62667AC	JUMPER, MPO, ETSI 10M
8DG62667AD	JUMPER, MPO, ETSI, 15M
8DG62684AA	MSH8-FSM INSTALL KIT
8DG62685AA	MSH8-FSM COVER KIT
8DG62692AA	10LC TO MPO FANOUT CABLE,MULTI-MODE,ETSI
8DG62693AA	10LC TO MPO FANOUT CABLE,MULTI-MODE,ANSI
8DG62734AA	MPO JUMPER (180MM) NAR - MCS TO AAR
8DG62734AB	MPO JUMPER (900MM) NAR - FOR DGE
8DG62735AA	JUMPER,MPO,ETSI,180MM,BD INSENSITIVE FBR
8DG62735AB	JUMPER,MPO,ETSI,900MMLNG,BD NSENSITVEFBR
8DG62736AA	MPO-APC LOOPBACK JUMPER
8DG62753AA	MON-OCM - LINE MONITOR USED W/WTOCM
8DG62768AA	ANSI LC APC LOW-LOSS (FOR OTDR) 3.5M
8DG62768AB	ANSI LC APC LOW-LOSS (FOR OTDR) 7M
8DG62769AA	JUMPER, LC-APC, 3.5M, ETSI, SM, SIMPLEX
8DG62769AB	JUMPER, LC-APC, 7M, ETSI, SM, SIMPLEX
8DG62803AAAA	Advanced Technology Access Fee
8DG62955AA	12CE120 - 12X10GBE/OTU2E/DWDM L2 CARD

8DG62993AA	1CE100 - 1X100GBE L2 CARD
8DG62993AB	1CE100Q - 1X100GBE L2 CARD
8DG63026AA	AWBILA WIDE BAND IN LINE AMPLIFIER
8DG63027AA	AWBING WIDE BAND INGRESS AMPLIFIER
8DG63028AA	AWBEGR WIDE BAND EGRESS AMPLIFIER
8DG63029AA	RA5P WIDE BAND RAMAN AMPLIFIER- 5 PUMPS
8DG63029AB	RA5PB WB RAMAN AMP 5 PUMPS W/ BACK REF
8DG63043AAAA	ESWL-1830PSS PAYG 10GBPS EQUIV TPD10GEQ
8DG63044AAAA	ESWL-1830PSS PAYG 10GBPS TRFC LIC EQUIV
8DG63068AA	OTDRWB FOR FIBER CHARACTRZTION WIDE BAND
8DG63100AA	WR20TFML TWIN X20 W/ MPO CONNECTORS L-BA
8DG63101AA	MCS8-16L MULTICASTSWITCH 8DEG16 PORTS L-
8DG63102AA	WTOCM-FL - WTOCM W/ FLEX CAPABILITY L-B
8DG63174AA	PSS-32 MOD FAN BASE UNIT (FRU)
8DG63176AA	PSS32 HIGH OUTPUT MOD FAN TRAY
8DG63187AA	PSS-32 MOD FAN MODULE (FRU)
8DG63207AA	S13X100R 100G MUX//XPDR/UPLINK (REGIONAL
8DG63207AC	S13X100L 100G MUX//XPDR/UPLINK L-BAND
8DG63235AAAA	1830PSS-CPB R8.0.0 DVD
8DG63245BA	9CH TRANSLATION LINE UNIT(TLU-RACKMOUNT)
8DG63247BA	OPTICAL SUPERVISOR UNIT(OSU)
8DG63249BA	9CH PMU (UPPER BAND)
8DG63249BB	9CH PMU (LOWER BAND)
8DG63249BC	9CH PMU WITH POWER MONITORING(UPPERBAND)
8DG63249BD	9CH PMU WITH POWER MONITORING(LOWERBAND)
8DG63264AA	MON-OTDR SIGNAL FILTERING CARD
8DG63307AA	TLU/ OSU FAN UNIT
8DG63322AA	TLU/ OSU FAN DUST FILTER
8DG63365AA	MPO APC SHORT JUMPER-NAR,180MM
8DG63365AB	MPO APC SHORT JUMPER-NAR,900MM
8DG63365AC	MPO-MPO APC JUMPER-NAR (3.5M)
8DG63365AD	MPO-MPO APC JUMPER-NAR (7M)
8DG63365AE	MPO-MPO APC JUMPER-NAR (10M)
8DG63365AF	MPO-MPO APC JUMPER-NAR (15M)
8DG63366AA	MPO APC SHORT JUMPER-ETSI, 180MM
8DG63366AB	MPO APC SHORT JUMPER-ETSI, 900MM
8DG63366AC	MPO-MPO APC JUMPER-ETSI, 3.5M
8DG63366AD	MPO-MPO APC JUMPER-ETSI, 7M
8DG63366AE	MPO-MPO APC JUMPER-ETSI, 10M
8DG63366AF	MPO-MPO APC JUMPER-ETSI, 15M
8DG63373AAAA	SINGLECODE/MULTIPLEQTY PACK INSTRUCTION
8DG63373ABAA	SINGLECODE/SINGLEQTY PACK INSTRUCTION
8DG63373ADAA	BUNDLED HARDWARE PACKAGING INSTRUCTIONS
8DG63526BA	4CH TLU/PMU UPPER BAND A (1471..1531)
8DG63526BB	4CH TLU/PMU UPPER BAND B (1551..1611)
8DG63526BC	4CH TLU/PMU LOWER BAND A (1271..1331)
8DG63526BD	4CH TLU/PMU LOWER BAND B (1351..1411)
8DG63541BA	1830VWM 1RU TYPE 1 19IN RACK MOUNT BRKT
8DG63541BB	1830VWM 1RU TYPE 1 21IN ETSI RK MT BRKT
8DG63541BC	1830VWM 1RU TYPE 1 23IN WECO RK MT BRKT

8DG63541BD	1830VWM 1RU TYPE 1 23IN EIA RK MT BRKT
8DG63541BE	PMU 19 IN RACK MOUNT
8DG63541BF	PMU ETSI 21 IN RACK MOUNT BRACKET
8DG63541BG	PMU 23IN EIA/WECO RACK MOUNT BRACKET
8DG63541CH	1830 VWM 1RU TYPE 2 19 IN RACK MNT BRCKT
8DG63541CJ	1830VWM 1RU TYPE 2 21IN ETSI RK MNT BRKT
8DG63541CK	1830 VWM 1RU TYPE 2 23IN WECO RK MNT BKT
8DG63541CL	1830 VWM 1RU TYPE 2 23IN EIA RK MNT BKT
8DG63560AA	TLU/PMU/OSU ETHERNET CABLE (SHORT)
8DG63561AA	TLU/PMU FIBER JUMPER (280MM)
8DG63561AB	OPT CABLE ASSY, SM, DUPLEX LC, 420MM
8DG63561AC	OPT CABLE ASSY, SM, DUPLEX LC, 1.4M
8DG63561AD	OPT CABLE ASSY, SM, DUPLEX LC, 3.5M
8DG63562AA	TLU/PMU FIBER JUMPER (230MM)
8DG63570AB	1830VWM TLU/PMU/OSU DC INTERCONT PWR CBL
8DG63582AAAA	ESWL - RTU 1UD200 200G MODE
8DG63583AA	32EC2E - HP EQUIPMENT CONTROLLER SECURED
8DG63585AA	OPSFLEX OPTCL PROT SWITCH FLEX GRID
8DG63616AA	DC POWER CABLE PSI
8DG63701AC	40M ANSI INVENTORY CABLE KIT
8DG63726AA	MSH4-FSB FLEX STACKABLE FIBSHUF
8DG63741AA	CABLE- ANSI MPO TO LC FIBER JUMPER
8DG63742AA	CABLE - ETSI MPO TO LC FIBER JUMPER
8DG63742AB	CA-MPO-LC JUMPER, SM, 0.8M DUAL RATED
8DG63748AA	ATTENUATOR VALUE TBD UPON LINK TEST
8DG63767AA	AAR2X8A AMP ARRAY 8-AMPS 2XMCS
8DG63768AA	AAR2X8AL AMP ARRAY 8AMPS L-BAND 2XMCS
8DG63780AAAA	ESWL - RTU 100G CAP HIGH CAPACITY
8DG63781AAAA	ESWL - RTU 100G CAP EXTENDED REACH
8DG63824AA	4CH TLU/PMU BRACKET KIT(POLE/WALL)
8DG63829AA	4CH TLU/PMU CARRYESES HANDLE KIT
8DG63846AA	SUBBLLTX - SUB LINE LOADING TRANSMITTER
8DG63857AA	4CH TLU/PMU 12M AC NA POWER CABLE
8DG63858AA	4CH TLU/PMU 12M AC EU POWER CABLE
8DG63860AA	4CH TLU/PMU 12M DC POWER CABLE
8DG63873AB	CONNECTOR KIT,1830VWM FULLAXS EXTENDED
8DG63923AAAA	ESWL-1830VWM BLADE LICENSE POINT FEE
8DG63940AA	SUBBLLTX - FAN TRAY
8DG63941AA	SUBBLLTX - AIR FILTER
8DG63950AA	D5X500L 500G MUX/UL,5CL,UNLOCKED(L-BAND)
8DG63973AA	IROADM9R REGIONAL 9D ROADM SWG AMP
8DG63973AB	IROADM9R REGIONAL 9D ROADM SWG AMP LP
8DG63974AA	9CH TLU WITH MONITORING
8DG63979AA	32EC2 - HP Equipment Controller N-E
8DG63985AA	D5X500Q 500G MUX/UPLINK, 5CL, UNLOCKED
8DG63988AA	S13X100E 100G MUX/ XPDR/ UPLINK (ENCRYPTION)
8DG63990AG	DMP005 - DCM - POSITIVE 5 KM
8DG63991AG	DMP010 - DCM - POSITIVE 10 KM
8DG63992AG	DMP015 - DCM - POSITIVE 15 KM
8DG63993AG	DMP020 - DCM - POSITIVE 20 KM

8DG63994AG	DMP025 - DCM - POSITIVE 25 KM
8DG63995AG	DMP030 - DCM - POSITIVE 30 KM
8DG63996AG	DMP035 - DCM - POSITIVE 35 KM
8DG63997AG	DMP040 - DCM - POSITIVE 40 KM
8DG64012AA	OPS SHELF CHASSIS (RACK MOUNT)
8DG64012AB	OPS CHASSIS (RACK MNT), THRM IMP, EMU RM
8DG64013AA	OPS POWER SUPPLYESSES UNIT (PSU)
8DG64013AB	OPS PWR SUPP UNIT (PSU) / ELEC COMPL IMP
8DG64014AA	OPS EQUIPMENT MANAGEMENT UNIT (EMU)
8DG64014AB	OPS EQUIP MGMT UNIT (EMU) / THERMAL IMP
8DG64015AA	OPS OPTICAL SWITCHING MODULE (OSM)
8DG64028AA	OPS OSM SLOT BLANK COVER
8DG64029AA	OPTICAL PROTECTION SWITCH (OPS) SYESESST
8DG64030AAAA	PRE-STAGING 1830PSS ANSSI QS
8DG64036AA	1830 PHOTONIC SERVICE DEMARCATION (PSD)
8DG64043AA	OPS PSU SLOT BLANK COVER
8DG64092AA	CC EAL3 PSS-32 SHELF KIT (WITH 2X32EC2E)
8DG64097AA	OPS PSU DC POWER CABLE
8DG64098AA	12CE121 - 12X10GBE/1GBE L2 CARD
8DG64137AA	RA2P-96 2-PUMP RMN 96CH NO MID-STG ACCES
8DG64184AB	OTDRM -METRO OTDR FIBER CHARACTERIZATION
8DG87518AAXX	UPPER AND HORIZONTAL AIR BAFFLE
8DG90079AA	CA-RACK LAMP CABLE (ETSI) 2.8M
8DG98812AA	Common material for: 7705 SAR8v2 chassis
8DG99108AA	PSS-24X ETSI RACK ZONE 4 KIT
PSS8KITB	PSS8 SHELF KIT-B W/EC, ANGLE PWR CABLES

MPL (GLP) \$USD	DISCOUNT	UNIT PRICE
\$ 0.36	50%	\$ 0.18
\$ 0.19	50%	\$ 0.10
\$ 0.19	50%	\$ 0.10
\$ 0.72	50%	\$ 0.36
\$ 3.72	50%	\$ 1.86
\$ 6.91	50%	\$ 3.46
\$ 1.73	50%	\$ 0.87
\$ 58.82	50%	\$ 29.41
\$ 9.89	50%	\$ 4.95
\$ 0.50	50%	\$ 0.25
\$ 0.49	50%	\$ 0.25
\$ 254.14	50%	\$ 127.07
\$ 15.29	50%	\$ 7.65
\$ 10.86	50%	\$ 5.43
\$ 94.22	50%	\$ 47.11
\$ 94.22	50%	\$ 47.11
\$ 0.43	50%	\$ 0.22
\$ 0.59	50%	\$ 0.30
\$ 5.11	50%	\$ 2.56
\$ 10.09	50%	\$ 5.05
\$ 13.44	50%	\$ 6.72
\$ 8.12	50%	\$ 4.06
\$ 7.16	50%	\$ 3.58
\$ 22.32	50%	\$ 11.16
\$ 10.92	50%	\$ 5.46
\$ 41.09	50%	\$ 20.55
\$ 0.44	50%	\$ 0.22
\$ 9.96	50%	\$ 4.98
\$ 9.23	50%	\$ 4.62
\$ 0.82	50%	\$ 0.41
\$ 0.82	50%	\$ 0.41
\$ 81.18	50%	\$ 40.59
\$ 57.00	50%	\$ 28.50
\$ 65.40	50%	\$ 32.70
\$ 0.59	50%	\$ 0.30
\$ 8.61	50%	\$ 4.31
\$ 84.48	50%	\$ 42.24
\$ 28.08	50%	\$ 14.04
\$ 0.82	50%	\$ 0.41
\$ 9.23	50%	\$ 4.62
\$ 10.09	50%	\$ 5.05
\$ 9.23	50%	\$ 4.62
\$ 50.11	50%	\$ 25.06
\$ 0.96	50%	\$ 0.48

\$ 0.82	50%	\$ 0.41
\$ 19.07	50%	\$ 9.54
\$ 28.56	50%	\$ 14.28
Custom Bid	0%	Custom Bid
Custom Bid	0%	Custom Bid
\$ 1,700.00	50%	\$ 850.00
\$ 5,000.00	50%	\$ 2,500.00
\$ 1,200.00	50%	\$ 600.00
\$ 500.00	50%	\$ 250.00
\$ 233.00	50%	\$ 116.50
\$ 1,700.00	50%	\$ 850.00
\$ 5,000.00	50%	\$ 2,500.00
\$ 3,200.00	50%	\$ 1,600.00
\$ 3,200.00	50%	\$ 1,600.00
\$ 7,327.20	50%	\$ 3,663.60
\$ 400.00	50%	\$ 200.00
\$ 3,632.80	50%	\$ 1,816.40
\$ 61,862.40	50%	\$ 30,931.20
\$ 7,530.11	50%	\$ 3,765.06
\$ 0.51	50%	\$ 0.26
\$ 2.12	50%	\$ 1.06
\$ 0.22	50%	\$ 0.11
\$ 0.74	50%	\$ 0.37
\$ 0.59	50%	\$ 0.30
\$ 0.69	50%	\$ 0.35
\$ 2.70	50%	\$ 1.35
\$ 0.14	50%	\$ 0.07
\$ 0.03	50%	\$ 0.02
\$ 0.43	50%	\$ 0.22
\$ 16.58	50%	\$ 8.29
\$ 13.41	50%	\$ 6.71
\$ 8.42	50%	\$ 4.21
\$ 60.42	50%	\$ 30.21
\$ 0.36	50%	\$ 0.18
\$ 0.78	50%	\$ 0.39
\$ 18.75	50%	\$ 9.38
\$ 0.33	50%	\$ 0.17
\$ 1.45	50%	\$ 0.73
\$ 1.20	50%	\$ 0.60
\$ 3.51	50%	\$ 1.76
\$ 3.62	50%	\$ 1.81
\$ 0.10	50%	\$ 0.05
\$ 0.17	50%	\$ 0.09
Custom Bid	0%	Custom Bid
Custom Bid	0%	Custom Bid
\$ 0.02	50%	\$ 0.01
\$ 3.48	50%	\$ 1.74
\$ 2.40	50%	\$ 1.20
\$ 0.79	50%	\$ 0.40
\$ 1.56	50%	\$ 0.78

\$ 1.01	50%	\$ 0.51
\$ 1.18	50%	\$ 0.59
\$ 0.46	50%	\$ 0.23
\$ 1.10	50%	\$ 0.55
\$ 0.50	50%	\$ 0.25
\$ 0.91	50%	\$ 0.46
\$ 0.66	50%	\$ 0.33
\$ 1.03	50%	\$ 0.52
\$ 24.34	50%	\$ 12.17
\$ 0.29	50%	\$ 0.15
\$ 0.29	50%	\$ 0.15
\$ 0.29	50%	\$ 0.15
\$ 1.68	50%	\$ 0.84
\$ 41.26	50%	\$ 20.63
\$ 10.20	50%	\$ 5.10
\$ 2.06	50%	\$ 1.03
\$ 2.66	50%	\$ 1.33
\$ 2.76	50%	\$ 1.38
\$ 3.12	50%	\$ 1.56
\$ 4.58	50%	\$ 2.29
\$ 6.84	50%	\$ 3.42
\$ 3.74	50%	\$ 1.87
\$ 5.04	50%	\$ 2.52
\$ 3.55	50%	\$ 1.78
\$ 13.82	50%	\$ 6.91
\$ 0.60	50%	\$ 0.30
\$ 1.13	50%	\$ 0.57
\$ 42.48	50%	\$ 21.24
\$ 15.74	50%	\$ 7.87
\$ 2.28	50%	\$ 1.14
\$ 3.19	50%	\$ 1.60
\$ 30.98	50%	\$ 15.49
\$ 31.66	50%	\$ 15.83
\$ 124.92	50%	\$ 62.46
\$ 22.90	50%	\$ 11.45
\$ 37.80	50%	\$ 18.90
\$ 0.60	50%	\$ 0.30
\$ 3.96	50%	\$ 1.98
\$ 73.46	50%	\$ 36.73
\$ 18.10	50%	\$ 9.05
\$ 58.39	50%	\$ 29.20
\$ 4.13	50%	\$ 2.07
\$ 28.34	50%	\$ 14.17
\$ 4.68	50%	\$ 2.34
\$ 4.54	50%	\$ 2.27
\$ 5.74	50%	\$ 2.87
\$ 3.19	50%	\$ 1.60
\$ 2.76	50%	\$ 1.38
\$ 4.13	50%	\$ 2.07
\$ 8.83	50%	\$ 4.42

\$ 2.40	50%	\$ 1.20
\$ 3.02	50%	\$ 1.51
\$ 2.57	50%	\$ 1.29
\$ 3.82	50%	\$ 1.91
\$ 2.90	50%	\$ 1.45
\$ 4.27	50%	\$ 2.14
\$ 3.65	50%	\$ 1.83
\$ 14.11	50%	\$ 7.06
\$ 15.43	50%	\$ 7.72
\$ 12.00	50%	\$ 6.00
\$ 8.40	50%	\$ 4.20
\$ 9.31	50%	\$ 4.66
\$ 133.30	50%	\$ 66.65
\$ 4.94	50%	\$ 2.47
\$ 64.58	50%	\$ 32.29
\$ 60.86	50%	\$ 30.43
\$ 83.16	50%	\$ 41.58
\$ 11.76	50%	\$ 5.88
\$ 175.54	50%	\$ 87.77
\$ 104.78	50%	\$ 52.39
\$ 5.16	50%	\$ 2.58
\$ 2.18	50%	\$ 1.09
\$ 1.20	50%	\$ 0.60
\$ 0.79	50%	\$ 0.40
\$ 0.34	50%	\$ 0.17
\$ 0.34	50%	\$ 0.17
\$ 8.45	50%	\$ 4.23
\$ 12.62	50%	\$ 6.31
\$ 353.04	50%	\$ 176.52
\$ 56.42	50%	\$ 28.21
\$ 8.45	50%	\$ 4.23
\$ 20.11	50%	\$ 10.06
\$ 23.52	50%	\$ 11.76
\$ 14.52	50%	\$ 7.26
\$ 16.08	50%	\$ 8.04
\$ 15.22	50%	\$ 7.61
\$ 2.07	50%	\$ 1.04
\$ 49.08	50%	\$ 24.54
\$ 28.32	50%	\$ 14.16
\$ 198.74	50%	\$ 99.37
\$ 0.98	50%	\$ 0.49
\$ 10.44	50%	\$ 5.22
\$ 2.76	50%	\$ 1.38
\$ 18.94	50%	\$ 9.47
\$ 1.18	50%	\$ 0.59
\$ 8.74	50%	\$ 4.37
\$ 5.35	50%	\$ 2.68
\$ 0.84	50%	\$ 0.42
\$ 0.84	50%	\$ 0.42
\$ 0.84	50%	\$ 0.42

\$ 0.86	50%	\$ 0.43
\$ 0.86	50%	\$ 0.43
\$ 0.87	50%	\$ 0.44
\$ 0.86	50%	\$ 0.43
\$ 0.96	50%	\$ 0.48
\$ 0.96	50%	\$ 0.48
\$ 0.96	50%	\$ 0.48
\$ 1.44	50%	\$ 0.72
\$ 1.32	50%	\$ 0.66
\$ 1.32	50%	\$ 0.66
\$ 1.32	50%	\$ 0.66
\$ 1.79	50%	\$ 0.90
\$ 1.80	50%	\$ 0.90
\$ 1.70	50%	\$ 0.85
\$ 0.96	50%	\$ 0.48
\$ 1.30	50%	\$ 0.65
\$ 1.66	50%	\$ 0.83
\$ 2.38	50%	\$ 1.19
\$ 2.02	50%	\$ 1.01
\$ 3.42	50%	\$ 1.71
\$ 5.21	50%	\$ 2.61
\$ 6.68	50%	\$ 3.34
\$ 6.17	50%	\$ 3.09
\$ 148.94	50%	\$ 74.47
\$ 7.56	50%	\$ 3.78
\$ 6.53	50%	\$ 3.27
\$ 0.96	50%	\$ 0.48
\$ 5.42	50%	\$ 2.71
\$ 1.18	50%	\$ 0.59
\$ 4.99	50%	\$ 2.50
\$ 61.44	50%	\$ 30.72
\$ 7.03	50%	\$ 3.52
\$ 1.89	50%	\$ 0.95
\$ 3.17	50%	\$ 1.59
\$ 20.93	50%	\$ 10.47
\$ 47.81	50%	\$ 23.91
\$ 23.71	50%	\$ 11.86
\$ 21.17	50%	\$ 10.59
\$ 5.74	50%	\$ 2.87
\$ 2.21	50%	\$ 1.11
\$ 0.43	50%	\$ 0.22
\$ 1.92	50%	\$ 0.96
\$ 2.52	50%	\$ 1.26
\$ 19.78	50%	\$ 9.89
\$ 2.95	50%	\$ 1.48
\$ 79.20	50%	\$ 39.60
\$ 14.40	50%	\$ 7.20
\$ 5.66	50%	\$ 2.83
\$ 3.24	50%	\$ 1.62
\$ 3.24	50%	\$ 1.62

\$ 1.03	50%	\$ 0.52
\$ 244.73	50%	\$ 122.37
\$ 175.54	50%	\$ 87.77
\$ 214.99	50%	\$ 107.50
\$ 32.90	50%	\$ 16.45
\$ 57.12	50%	\$ 28.56
\$ 7.42	50%	\$ 3.71
\$ 4.32	50%	\$ 2.16
\$ 16.03	50%	\$ 8.02
\$ 423.60	50%	\$ 211.80
\$ 16.03	50%	\$ 8.02
\$ 1.51	50%	\$ 0.76
\$ 3.79	50%	\$ 1.90
\$ 5.52	50%	\$ 2.76
\$ 0.02	50%	\$ 0.01
\$ 1.63	50%	\$ 0.82
\$ 4.22	50%	\$ 2.11
\$ 3.07	50%	\$ 1.54
\$ 1.18	50%	\$ 0.59
\$ 11.40	50%	\$ 5.70
\$ 0.36	50%	\$ 0.18
\$ 36.62	50%	\$ 18.31
\$ 33.53	50%	\$ 16.77
\$ 4.68	50%	\$ 2.34
\$ 14.76	50%	\$ 7.38
\$ 67.51	50%	\$ 33.76
\$ 103.06	50%	\$ 51.53
\$ 55.94	50%	\$ 27.97
\$ 75.43	50%	\$ 37.72
\$ 150.67	50%	\$ 75.34
\$ 57.80	50%	\$ 28.90
\$ 150.67	50%	\$ 75.34
\$ 99.74	50%	\$ 49.87
\$ 7.24	50%	\$ 3.62
\$ 107.83	50%	\$ 53.92
\$ 37.49	50%	\$ 18.75
\$ 24.00	50%	\$ 12.00
\$ 1.47	50%	\$ 0.74
\$ 413.21	50%	\$ 206.61
\$ 125.95	50%	\$ 62.98
\$ 202.06	50%	\$ 101.03
\$ 91.06	50%	\$ 45.53
\$ 180.46	50%	\$ 90.23
\$ 34.80	50%	\$ 17.40
\$ 34.80	50%	\$ 17.40
\$ 126.34	50%	\$ 63.17
\$ 0.08	50%	\$ 0.04
\$ 10.44	50%	\$ 5.22
\$ 22.20	50%	\$ 11.10
\$ 110.64	50%	\$ 55.32

\$ 71.62	50%	\$ 35.81
\$ 168.94	50%	\$ 84.47
\$ 5.88	50%	\$ 2.94
\$ 22.56	50%	\$ 11.28
\$ 0.54	50%	\$ 0.27
\$ 121.20	50%	\$ 60.60
\$ 99.98	50%	\$ 49.99
\$ 98.52	50%	\$ 49.26
\$ 287.28	50%	\$ 143.64
\$ 54.60	50%	\$ 27.30
\$ 51.00	50%	\$ 25.50
\$ 55.58	50%	\$ 27.79
\$ 40.82	50%	\$ 20.41
\$ 43.97	50%	\$ 21.99
\$ 32.62	50%	\$ 16.31
\$ 26.09	50%	\$ 13.05
\$ 21.70	50%	\$ 10.85
\$ 3.53	50%	\$ 1.77
\$ 16.43	50%	\$ 8.22
\$ 4.80	50%	\$ 2.40
\$ 44.88	50%	\$ 22.44
\$ 5.30	50%	\$ 2.65
\$ 6.62	50%	\$ 3.31
\$ 6.60	50%	\$ 3.30
\$ 6.62	50%	\$ 3.31
\$ 10.20	50%	\$ 5.10
\$ 7.27	50%	\$ 3.64
\$ 9.36	50%	\$ 4.68
\$ 5.47	50%	\$ 2.74
\$ 8.02	50%	\$ 4.01
\$ 4.92	50%	\$ 2.46
\$ 5.81	50%	\$ 2.91
\$ 8.64	50%	\$ 4.32
\$ 1,848.00	50%	\$ 924.00
\$ 57.65	50%	\$ 28.83
\$ 28.32	50%	\$ 14.16
\$ 96.58	50%	\$ 48.29
\$ 7.20	50%	\$ 3.60
\$ 1.71	50%	\$ 0.86
\$ 3.50	50%	\$ 1.75
\$ 2.35	50%	\$ 1.18
\$ 103.39	50%	\$ 51.70
\$ 10.32	50%	\$ 5.16
\$ 111.84	50%	\$ 55.92
\$ 12.24	50%	\$ 6.12
\$ 6.48	50%	\$ 3.24
\$ 61.96	50%	\$ 30.98
\$ 84.72	50%	\$ 42.36
\$ 47.11	50%	\$ 23.56
\$ 41.04	50%	\$ 20.52

\$ 36.53	50%	\$ 18.27
\$ 0.87	50%	\$ 0.44
\$ 43.20	50%	\$ 21.60
\$ 5.04	50%	\$ 2.52
\$ 24.72	50%	\$ 12.36
\$ 263.53	50%	\$ 131.77
\$ 5.35	50%	\$ 2.68
\$ 8.52	50%	\$ 4.26
\$ 54.66	50%	\$ 27.33
\$ 2.78	50%	\$ 1.39
\$ 1.46	50%	\$ 0.73
\$ 694.32	50%	\$ 347.16
\$ 18.98	50%	\$ 9.49
\$ 7.66	50%	\$ 3.83
\$ 7.13	50%	\$ 3.57
\$ 6.96	50%	\$ 3.48
\$ 38.98	50%	\$ 19.49
\$ 92.06	50%	\$ 46.03
\$ 27.77	50%	\$ 13.89
\$ 44.62	50%	\$ 22.31
\$ 46.73	50%	\$ 23.37
\$ 23.76	50%	\$ 11.88
\$ 27.14	50%	\$ 13.57
\$ 15.67	50%	\$ 7.84
\$ 15.07	50%	\$ 7.54
\$ 17.18	50%	\$ 8.59
\$ 25.42	50%	\$ 12.71
\$ 38.28	50%	\$ 19.14
\$ 7.32	50%	\$ 3.66
\$ 7.18	50%	\$ 3.59
\$ 5.28	50%	\$ 2.64
\$ 5.28	50%	\$ 2.64
\$ 10.13	50%	\$ 5.07
\$ 22.80	50%	\$ 11.40
\$ 20.64	50%	\$ 10.32
\$ 216.17	50%	\$ 108.09
\$ 1.56	50%	\$ 0.78
\$ 133.32	50%	\$ 66.66
\$ 13.65	50%	\$ 6.83
\$ 19.58	50%	\$ 9.79
\$ 117.48	50%	\$ 58.74
\$ 58.27	50%	\$ 29.14
\$ 32.62	50%	\$ 16.31
\$ 55.56	50%	\$ 27.78
\$ 126.50	50%	\$ 63.25
\$ 48.01	50%	\$ 24.01
\$ 156.00	50%	\$ 78.00
\$ 240.00	50%	\$ 120.00
\$ 54.55	50%	\$ 27.28
\$ 43.20	50%	\$ 21.60

\$ 105.43	50%	\$ 52.72
\$ 62.68	50%	\$ 31.34
\$ 75.22	50%	\$ 37.61
\$ 71.30	50%	\$ 35.65
\$ 81.50	50%	\$ 40.75
\$ 0.17	50%	\$ 0.09
\$ 105.96	50%	\$ 52.98
\$ 205.20	50%	\$ 102.60
\$ 5.38	50%	\$ 2.69
\$ 1.56	50%	\$ 0.78
\$ 21.50	50%	\$ 10.75
\$ 74.40	50%	\$ 37.20
\$ 19.27	50%	\$ 9.64
\$ 11.52	50%	\$ 5.76
\$ 45.14	50%	\$ 22.57
\$ 46.06	50%	\$ 23.03
\$ 32.76	50%	\$ 16.38
\$ 46.46	50%	\$ 23.23
\$ 1.99	50%	\$ 1.00
\$ 4.54	50%	\$ 2.27
\$ 2,040.79	50%	\$ 1,020.40
\$ 24.24	50%	\$ 12.12
\$ 8,906.42	50%	\$ 4,453.21
\$ 239.59	50%	\$ 119.80
\$ 288.00	50%	\$ 144.00
\$ 27.82	50%	\$ 13.91
\$ 43.73	50%	\$ 21.87
\$ 27.67	50%	\$ 13.84
\$ 28.99	50%	\$ 14.50
\$ 24.74	50%	\$ 12.37
\$ 47.09	50%	\$ 23.55
\$ 46.08	50%	\$ 23.04
\$ 31.56	50%	\$ 15.78
\$ 82.92	50%	\$ 41.46
\$ 41.14	50%	\$ 20.57
\$ 262.70	50%	\$ 131.35
\$ 512.64	50%	\$ 256.32
\$ 21.74	50%	\$ 10.87
\$ 262.70	50%	\$ 131.35
\$ 423.31	50%	\$ 211.66
\$ 46.27	50%	\$ 23.14
\$ 0.96	50%	\$ 0.48
\$ 5.38	50%	\$ 2.69
\$ 12.72	50%	\$ 6.36
\$ 547.56	50%	\$ 273.78
\$ 34.94	50%	\$ 17.47
\$ 400.80	50%	\$ 200.40
\$ 110.40	50%	\$ 55.20
\$ 156.67	50%	\$ 78.34
\$ 47.02	50%	\$ 23.51

\$ 101.26	50%	\$ 50.63
\$ 6.79	50%	\$ 3.40
\$ 7.03	50%	\$ 3.52
\$ 0.72	50%	\$ 0.36
\$ 7.75	50%	\$ 3.88
\$ 0.11	50%	\$ 0.06
\$ 0.16	50%	\$ 0.08
\$ 0.17	50%	\$ 0.09
\$ 32.66	50%	\$ 16.33
\$ 0.48	50%	\$ 0.24
\$ 125.83	50%	\$ 62.92
\$ 27.02	50%	\$ 13.51
\$ 38.47	50%	\$ 19.24
\$ 7.30	50%	\$ 3.65
\$ 51.38	50%	\$ 25.69
\$ 47.71	50%	\$ 23.86
\$ 20.28	50%	\$ 10.14
\$ 0.02	50%	\$ 0.01
\$ 0.05	50%	\$ 0.03
\$ 0.04	50%	\$ 0.02
\$ 0.05	50%	\$ 0.03
\$ 0.20	50%	\$ 0.10
\$ 0.03	50%	\$ 0.02
\$ 0.15	50%	\$ 0.08
\$ 0.07	50%	\$ 0.04
\$ 13.06	50%	\$ 6.53
\$ 12.91	50%	\$ 6.46
\$ 10.80	50%	\$ 5.40
\$ 2.09	50%	\$ 1.05
\$ 6.36	50%	\$ 3.18
\$ 6.77	50%	\$ 3.39
\$ 14.09	50%	\$ 7.05
\$ 4.15	50%	\$ 2.08
\$ 0.26	50%	\$ 0.13
\$ 1.10	50%	\$ 0.55
\$ 2.01	50%	\$ 1.01
\$ 0.12	50%	\$ 0.06
\$ 3.94	50%	\$ 1.97
\$ 10.64	50%	\$ 5.32
\$ 5.71	50%	\$ 2.86
\$ 33.00	50%	\$ 16.50
\$ 1.01	50%	\$ 0.51
\$ 2.50	50%	\$ 1.25
\$ 1.25	50%	\$ 0.63
\$ 170.24	50%	\$ 85.12
\$ 149.00	50%	\$ 74.50
\$ 149.00	50%	\$ 74.50
\$ 170.24	50%	\$ 85.12
\$ 149.00	50%	\$ 74.50
\$ 149.00	50%	\$ 74.50

\$ 170.24	50%	\$ 85.12
\$ 149.00	50%	\$ 74.50
\$ 149.00	50%	\$ 74.50
\$ 149.00	50%	\$ 74.50
Custom Bid	0%	Custom Bid
\$ 149.00	50%	\$ 74.50
\$ 149.00	50%	\$ 74.50
\$ 149.00	50%	\$ 74.50
\$ 149.00	50%	\$ 74.50
\$ 149.00	50%	\$ 74.50
\$ 149.00	50%	\$ 74.50
Custom Bid	0%	Custom Bid
\$ 0.66	50%	\$ 0.33
Custom Bid	0%	Custom Bid
\$ 10.20	50%	\$ 5.10
\$ 0.58	50%	\$ 0.29
\$ 3.26	50%	\$ 1.63
\$ 15.77	50%	\$ 7.89
\$ 8.62	50%	\$ 4.31
\$ 8.40	50%	\$ 4.20
\$ 10.01	50%	\$ 5.01
\$ 6.03	50%	\$ 3.02
\$ 70.95	50%	\$ 35.48
\$ 75.30	50%	\$ 37.65
\$ 368.95	50%	\$ 184.48
\$ 24.00	50%	\$ 12.00
\$ 73.61	50%	\$ 36.81
\$ 77.00	50%	\$ 38.50
\$ 91.04	50%	\$ 45.52
\$ 5.47	50%	\$ 2.74
\$ 149.00	50%	\$ 74.50
\$ 1,288.00	50%	\$ 644.00
\$ 2.93	50%	\$ 1.47
\$ 24.00	50%	\$ 12.00
\$ 14.00	50%	\$ 7.00
\$ 21.00	50%	\$ 10.50
\$ 24.00	50%	\$ 12.00
\$ 42.00	50%	\$ 21.00
\$ 25.00	50%	\$ 12.50
\$ 26.00	50%	\$ 13.00
\$ 27.00	50%	\$ 13.50
\$ 8.78	50%	\$ 4.39
Custom Bid	0%	Custom Bid
\$ 9.89	50%	\$ 4.95
\$ 57.07	50%	\$ 28.54
\$ 156.00	50%	\$ 78.00
\$ 80.00	50%	\$ 40.00
\$ 195.00	50%	\$ 97.50
\$ 856.00	50%	\$ 428.00
\$ 22.75	50%	\$ 11.38

\$ 116.80	50%	\$ 58.40
\$ 308.00	50%	\$ 154.00
\$ 500.00	50%	\$ 250.00
\$ 140.00	50%	\$ 70.00
Custom Bid	0%	Custom Bid
\$ 228.00	50%	\$ 114.00
\$ 251.00	50%	\$ 125.50
\$ 313.60	50%	\$ 156.80
\$ 432.00	50%	\$ 216.00
\$ 400.00	50%	\$ 200.00
\$ 492.00	50%	\$ 246.00
\$ 441.60	50%	\$ 220.80
\$ 1,131.00	50%	\$ 565.50
\$ 1,323.00	50%	\$ 661.50
\$ 425.00	50%	\$ 212.50
\$ 175.39	50%	\$ 87.70
\$ 315.70	50%	\$ 157.85
\$ 152.96	50%	\$ 76.48
\$ 13.44	50%	\$ 6.72
\$ 1,757.00	50%	\$ 878.50
\$ 135.00	50%	\$ 67.50
\$ 11.52	50%	\$ 5.76
\$ 14.07	50%	\$ 7.04
\$ 136.00	50%	\$ 68.00
\$ 1,440.00	50%	\$ 720.00
\$ 1,440.00	50%	\$ 720.00
\$ 1,440.00	50%	\$ 720.00
\$ 80.00	50%	\$ 40.00
\$ 104.00	50%	\$ 52.00
\$ 26.00	50%	\$ 13.00
\$ 135.00	50%	\$ 67.50
\$ 149.00	50%	\$ 74.50
\$ 149.00	50%	\$ 74.50
\$ 57.00	50%	\$ 28.50
\$ 306.00	50%	\$ 153.00
\$ 265.00	50%	\$ 132.50
\$ 241.00	50%	\$ 120.50
\$ 41.00	50%	\$ 20.50
\$ 64.00	50%	\$ 32.00
\$ 54.00	50%	\$ 27.00
\$ 51.00	50%	\$ 25.50
\$ 61.00	50%	\$ 30.50
\$ 41.00	50%	\$ 20.50
\$ 3,501.00	50%	\$ 1,750.50
\$ 9,868.00	50%	\$ 4,934.00
\$ 8.61	50%	\$ 4.31
\$ 11.60	50%	\$ 5.80
\$ 14.64	50%	\$ 7.32
\$ 27.22	50%	\$ 13.61
\$ 924.00	50%	\$ 462.00

\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 7,327.20	50%	\$ 3,663.60
\$ 9,159.00	50%	\$ 4,579.50
\$ 7,327.20	50%	\$ 3,663.60
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 9,159.00	50%	\$ 4,579.50
\$ 128.00	50%	\$ 64.00
\$ 126.00	50%	\$ 63.00
\$ 173.00	50%	\$ 86.50
\$ 300.00	50%	\$ 150.00
\$ 101.00	50%	\$ 50.50
\$ 101.00	50%	\$ 50.50
\$ 101.00	50%	\$ 50.50
\$ 101.00	50%	\$ 50.50
\$ 101.00	50%	\$ 50.50
\$ 101.00	50%	\$ 50.50
\$ 101.00	50%	\$ 50.50
\$ 101.00	50%	\$ 50.50
\$ 101.00	50%	\$ 50.50
\$ 101.00	50%	\$ 50.50
\$ 101.00	50%	\$ 50.50
\$ 101.00	50%	\$ 50.50
\$ 101.00	50%	\$ 50.50
\$ 900.00	50%	\$ 450.00
\$ 1,200.00	50%	\$ 600.00
\$ 1,303.00	50%	\$ 651.50
\$ 2,700.00	50%	\$ 1,350.00
\$ 3,448.00	50%	\$ 1,724.00
\$ 3,780.00	50%	\$ 1,890.00
\$ 806.40	50%	\$ 403.20
\$ 3,861.00	50%	\$ 1,930.50
\$ 851.00	50%	\$ 425.50
\$ 99.00	50%	\$ 49.50
\$ 279.00	50%	\$ 139.50
\$ 283.00	50%	\$ 141.50
\$ 168.00	50%	\$ 84.00
\$ 319.00	50%	\$ 159.50

\$ 312.00	50%	\$ 156.00
\$ 372.00	50%	\$ 186.00
\$ 247.00	50%	\$ 123.50
\$ 729.00	50%	\$ 364.50
Custom Bid	0%	Custom Bid
\$ 491.00	50%	\$ 245.50
\$ 635.00	50%	\$ 317.50
Custom Bid	0%	Custom Bid
\$ 108.00	50%	\$ 54.00
\$ 199.00	50%	\$ 99.50
\$ 1,086.00	50%	\$ 543.00
\$ 1,559.00	50%	\$ 779.50
\$ 248.00	50%	\$ 124.00
\$ 756.00	50%	\$ 378.00
\$ 756.00	50%	\$ 378.00
\$ 756.00	50%	\$ 378.00
\$ 756.00	50%	\$ 378.00
\$ 756.00	50%	\$ 378.00
\$ 756.00	50%	\$ 378.00
\$ 756.00	50%	\$ 378.00
\$ 756.00	50%	\$ 378.00
\$ 756.00	50%	\$ 378.00
\$ 1,890.00	50%	\$ 945.00
\$ 1,890.00	50%	\$ 945.00
\$ 1,890.00	50%	\$ 945.00
\$ 1,890.00	50%	\$ 945.00
\$ 1,890.00	50%	\$ 945.00
\$ 1,890.00	50%	\$ 945.00
\$ 1,890.00	50%	\$ 945.00
\$ 1,890.00	50%	\$ 945.00
\$ 1,890.00	50%	\$ 945.00
\$ 7,444.00	50%	\$ 3,722.00
\$ 7,444.00	50%	\$ 3,722.00
\$ 7,444.00	50%	\$ 3,722.00
\$ 7,444.00	50%	\$ 3,722.00
\$ 7,444.00	50%	\$ 3,722.00
\$ 7,444.00	50%	\$ 3,722.00
\$ 7,444.00	50%	\$ 3,722.00
\$ 7,444.00	50%	\$ 3,722.00
\$ 7,444.00	50%	\$ 3,722.00
\$ 5,194.00	50%	\$ 2,597.00
\$ 5,195.00	50%	\$ 2,597.50
\$ 5,195.00	50%	\$ 2,597.50
\$ 5,195.00	50%	\$ 2,597.50
\$ 5,195.00	50%	\$ 2,597.50
\$ 5,195.00	50%	\$ 2,597.50
\$ 5,195.00	50%	\$ 2,597.50
\$ 5,195.00	50%	\$ 2,597.50
\$ 5,195.00	50%	\$ 2,597.50
\$ 4,050.00	50%	\$ 2,025.00
\$ 4,050.00	50%	\$ 2,025.00
\$ 4,050.00	50%	\$ 2,025.00
\$ 4,050.00	50%	\$ 2,025.00
\$ 4,050.00	50%	\$ 2,025.00

\$ 4,050.00	50%	\$ 2,025.00
\$ 4,050.00	50%	\$ 2,025.00
\$ 4,050.00	50%	\$ 2,025.00
\$ 4,039.00	50%	\$ 2,019.50
\$ 4,039.00	50%	\$ 2,019.50
\$ 4,039.00	50%	\$ 2,019.50
\$ 4,039.00	50%	\$ 2,019.50
\$ 4,039.00	50%	\$ 2,019.50
\$ 6.94	50%	\$ 3.47
\$ 186.00	50%	\$ 93.00
\$ 146.00	50%	\$ 73.00
\$ 780.00	50%	\$ 390.00
\$ 425.00	50%	\$ 212.50
\$ 839.70	50%	\$ 419.85
\$ 2,101.00	50%	\$ 1,050.50
\$ 1,440.00	50%	\$ 720.00
\$ 837.00	50%	\$ 418.50
\$ 2,136.00	50%	\$ 1,068.00
\$ 7,695.00	50%	\$ 3,847.50
\$ 52.76	50%	\$ 26.38
\$ 343.00	50%	\$ 171.50
\$ 360.00	50%	\$ 180.00
Custom Bid	0%	Custom Bid
Custom Bid	0%	Custom Bid
\$ 410.00	50%	\$ 205.00
\$ 432.00	50%	\$ 216.00
\$ 471.00	50%	\$ 235.50
\$ 551.00	50%	\$ 275.50
\$ 702.00	50%	\$ 351.00
\$ 217.00	50%	\$ 108.50
\$ 111,780.00	50%	\$ 55,890.00
Custom Bid	0%	Custom Bid
\$ 1,705.15	50%	\$ 852.58
\$ 8.34	50%	\$ 4.17
\$ 170.62	50%	\$ 85.31
\$ 43,235.84	50%	\$ 21,617.92
\$ 696.56	50%	\$ 348.28
\$ 3.74	50%	\$ 1.87
\$ 3.91	50%	\$ 1.96
\$ 11.82	50%	\$ 5.91
\$ 17.03	50%	\$ 8.52
\$ 26.22	50%	\$ 13.11
\$ 36.19	50%	\$ 18.10
\$ 56.62	50%	\$ 28.31
\$ 55.15	50%	\$ 27.58
\$ 149.98	50%	\$ 74.99
\$ 13.56	50%	\$ 6.78
\$ 5.81	50%	\$ 2.91
\$ 198.60	50%	\$ 99.30
\$ 16.26	50%	\$ 8.13

\$ 16.26	50%	\$ 8.13
\$ 32.52	50%	\$ 16.26
\$ 70.40	50%	\$ 35.20
\$ 70.40	50%	\$ 35.20
\$ 70.40	50%	\$ 35.20
\$ 71.80	50%	\$ 35.90
\$ 58.63	50%	\$ 29.32
\$ 422.40	50%	\$ 211.20
\$ 0.34	50%	\$ 0.17
\$ 39.62	50%	\$ 19.81
\$ 39.62	50%	\$ 19.81
\$ 33.60	50%	\$ 16.80
\$ 31.92	50%	\$ 15.96
\$ 128.00	50%	\$ 64.00
\$ 128.00	50%	\$ 64.00
\$ 29.52	50%	\$ 14.76
\$ 14.83	50%	\$ 7.42
\$ 3.48	50%	\$ 1.74
\$ 613.00	50%	\$ 306.50
\$ 22,000.00	50%	\$ 11,000.00
\$ 20,000.00	50%	\$ 10,000.00
\$ 7,500.00	50%	\$ 3,750.00
\$ 8,250.00	50%	\$ 4,125.00
\$ 1,680.64	50%	\$ 840.32
\$ 7,695.36	50%	\$ 3,847.68
\$ 424.96	50%	\$ 212.48
\$ 779.52	50%	\$ 389.76
\$ 837.12	50%	\$ 418.56
\$ 2,842.88	50%	\$ 1,421.44
\$ 4,225.28	50%	\$ 2,112.64
\$ 198.40	50%	\$ 99.20
\$ 839.68	50%	\$ 419.84
\$ 1,440.00	50%	\$ 720.00
\$ 2,100.48	50%	\$ 1,050.24
\$ 584.96	50%	\$ 292.48
\$ 628.48	50%	\$ 314.24
\$ 8,343.04	50%	\$ 4,171.52
\$ 2,699.52	50%	\$ 1,349.76
\$ 3,448.32	50%	\$ 1,724.16
\$ 80.64	50%	\$ 40.32
\$ 185.60	50%	\$ 92.80
\$ 176.64	50%	\$ 88.32
\$ 318.72	50%	\$ 159.36
\$ 198.40	50%	\$ 99.20
\$ 372.48	50%	\$ 186.24
\$ 899.84	50%	\$ 449.92
\$ 1,200.64	50%	\$ 600.32
\$ 1,329.92	50%	\$ 664.96
\$ 1,457.92	50%	\$ 728.96
\$ 1,920.00	50%	\$ 960.00

\$ 3,584.00	50%	\$ 1,792.00
\$ 52,000.00	50%	\$ 26,000.00
\$ 73,000.00	50%	\$ 36,500.00
\$ 14,000.00	50%	\$ 7,000.00
\$ 3,200.00	50%	\$ 1,600.00
\$ 4,770.00	50%	\$ 2,385.00
\$ 12.34	50%	\$ 6.17
\$ 125.64	50%	\$ 62.82
\$ 125.64	50%	\$ 62.82
\$ 46.55	50%	\$ 23.28
\$ 20.71	50%	\$ 10.36
\$ 20.11	50%	\$ 10.06
\$ 2,058.00	50%	\$ 1,029.00
\$ 1,742.00	50%	\$ 871.00
\$ 400.00	50%	\$ 200.00
\$ 850.00	50%	\$ 425.00
\$ 650.00	50%	\$ 325.00
\$ 124.99	50%	\$ 62.50
\$ 604.01	50%	\$ 302.01
\$ 728.02	50%	\$ 364.01
\$ 979.08	50%	\$ 489.54
\$ 892.80	50%	\$ 446.40
\$ 854.40	50%	\$ 427.20
\$ 816.00	50%	\$ 408.00
\$ 775.20	50%	\$ 387.60
\$ 756.00	50%	\$ 378.00
\$ 741.60	50%	\$ 370.80
\$ 686.40	50%	\$ 343.20
\$ 643.08	50%	\$ 321.54
\$ 620.76	50%	\$ 310.38
\$ 598.44	50%	\$ 299.22
\$ 712.80	50%	\$ 356.40
\$ 1,003.18	50%	\$ 501.59
\$ 978.00	50%	\$ 489.00
\$ 2,719.25	50%	\$ 1,359.63
\$ 2,309.78	50%	\$ 1,154.89
\$ 1,900.34	50%	\$ 950.17
\$ 2,105.06	50%	\$ 1,052.53
\$ 1,695.62	50%	\$ 847.81
\$ 976.06	50%	\$ 488.03
\$ 852.05	50%	\$ 426.03
\$ 392.11	50%	\$ 196.06
\$ 379.90	50%	\$ 189.95
\$ 866.28	50%	\$ 433.14
\$ 860.81	50%	\$ 430.41
\$ 380.86	50%	\$ 190.43
\$ 3.55	50%	\$ 1.78
\$ 50.88	50%	\$ 25.44
\$ 11.16	50%	\$ 5.58
\$ 177.24	50%	\$ 88.62

\$ 108.67	50%	\$ 54.34
\$ 66.91	50%	\$ 33.46
\$ 52.73	50%	\$ 26.37
\$ 84.24	50%	\$ 42.12
\$ 11.83	50%	\$ 5.92
\$ 315.00	50%	\$ 157.50
\$ 36.72	50%	\$ 18.36
\$ 136.08	50%	\$ 68.04
\$ 29.16	50%	\$ 14.58
\$ 3.19	50%	\$ 1.60
\$ 27.89	50%	\$ 13.95
\$ 80.40	50%	\$ 40.20
\$ 56.35	50%	\$ 28.18
\$ 23.83	50%	\$ 11.92
\$ 24.34	50%	\$ 12.17
\$ 55.80	50%	\$ 27.90
\$ 45.02	50%	\$ 22.51
\$ 22.32	50%	\$ 11.16
\$ 28.39	50%	\$ 14.20
\$ 3.02	50%	\$ 1.51
\$ 3.55	50%	\$ 1.78
\$ 2.11	50%	\$ 1.06
\$ 2.66	50%	\$ 1.33
\$ 45.00	50%	\$ 22.50
\$ 6.75	50%	\$ 3.38
\$ 6.02	50%	\$ 3.01
\$ 3.00	50%	\$ 1.50
\$ 15.61	50%	\$ 7.81
\$ 5.14	50%	\$ 2.57
\$ 0.94	50%	\$ 0.47
\$ 3.00	50%	\$ 1.50
\$ 6.26	50%	\$ 3.13
\$ 2.36	50%	\$ 1.18
\$ 7.30	50%	\$ 3.65
\$ 3.00	50%	\$ 1.50
\$ 3.99	50%	\$ 2.00
\$ 8.60	50%	\$ 4.30
\$ 0.24	50%	\$ 0.12
\$ 0.20	50%	\$ 0.10
\$ 3.09	50%	\$ 1.55
\$ 1.54	50%	\$ 0.77
\$ 0.44	50%	\$ 0.22
\$ 0.20	50%	\$ 0.10
\$ 0.44	50%	\$ 0.22
\$ 0.47	50%	\$ 0.24
\$ 0.11	50%	\$ 0.06
\$ 26.00	50%	\$ 13.00
\$ 105.60	50%	\$ 52.80
Custom Bid	0%	Custom Bid
\$ 83.98	50%	\$ 41.99

\$ 60.14	50%	\$ 30.07
\$ 36.30	50%	\$ 18.15
\$ 124.20	50%	\$ 62.10
\$ 104.78	50%	\$ 52.39
\$ 755.52	50%	\$ 377.76
\$ 60.48	50%	\$ 30.24
\$ 881.26	50%	\$ 440.63
\$ 31.71	50%	\$ 15.86
\$ 4.83	50%	\$ 2.42
\$ 459.07	50%	\$ 229.54
\$ 52.42	50%	\$ 26.21
\$ 83.76	50%	\$ 41.88
\$ 196.20	50%	\$ 98.10
\$ 41.00	50%	\$ 20.50
\$ 19.44	50%	\$ 9.72
\$ 152.90	50%	\$ 76.45
\$ 1.00	50%	\$ 0.50
Custom Bid	0%	Custom Bid
\$ 1,602.00	50%	\$ 801.00
Custom Bid	0%	Custom Bid
\$ 3.46	50%	\$ 1.73
\$ 140.34	50%	\$ 70.17
\$ 108.00	50%	\$ 54.00
\$ 134.84	50%	\$ 67.42
\$ 2.52	50%	\$ 1.26
\$ 57.74	50%	\$ 28.87
Custom Bid	0%	Custom Bid
\$ 309.65	50%	\$ 154.83
\$ 20.90	50%	\$ 10.45
\$ 1,992.00	50%	\$ 996.00
\$ 2,700.00	50%	\$ 1,350.00
\$ 2,741.95	50%	\$ 1,370.98
\$ 1,561.39	50%	\$ 780.70
\$ 2,706.31	50%	\$ 1,353.16
\$ 74.16	50%	\$ 37.08
\$ 302.98	50%	\$ 151.49
\$ 138.43	50%	\$ 69.22
\$ 36.91	50%	\$ 18.46
\$ 0.20	50%	\$ 0.10
\$ 144.82	50%	\$ 72.41
\$ 57.84	50%	\$ 28.92
\$ 6,311.06	50%	\$ 3,155.53
\$ 0.43	50%	\$ 0.22
\$ 0.26	50%	\$ 0.13
\$ 237.07	50%	\$ 118.54
\$ 0.86	50%	\$ 0.43
\$ 15,237.24	50%	\$ 7,618.62
\$ 305.88	50%	\$ 152.94
\$ 0.86	50%	\$ 0.43
\$ 142.15	50%	\$ 71.08

\$ 0.74	50%	\$ 0.37
\$ 28.99	50%	\$ 14.50
\$ 1,262.40	50%	\$ 631.20
\$ 349.15	50%	\$ 174.58
\$ 300.00	50%	\$ 150.00
\$ 3,410.00	50%	\$ 1,705.00
\$ 4,839.00	50%	\$ 2,419.50
\$ 107.69	50%	\$ 53.85
\$ 79.39	50%	\$ 39.70
\$ 14,995.44	50%	\$ 7,497.72
\$ 1,828.00	50%	\$ 914.00
\$ 1,726.92	50%	\$ 863.46
\$ 23.51	50%	\$ 11.76
\$ 12,920.32	50%	\$ 6,460.16
\$ 88.27	50%	\$ 44.14
\$ 199.80	50%	\$ 99.90
\$ 117.00	50%	\$ 58.50
\$ 46.20	50%	\$ 23.10
\$ 141.67	50%	\$ 70.84
\$ 404.69	50%	\$ 202.35
\$ 796.80	50%	\$ 398.40
\$ 90.62	50%	\$ 45.31
\$ 65.47	50%	\$ 32.74
\$ 1,920.00	50%	\$ 960.00
\$ 283.20	50%	\$ 141.60
\$ 464.02	50%	\$ 232.01
\$ 97,356.00	50%	\$ 48,678.00
\$ 203.64	50%	\$ 101.82
\$ 446.16	50%	\$ 223.08
\$ 2,940.00	50%	\$ 1,470.00
\$ 2,613.00	50%	\$ 1,306.50
\$ 388.73	50%	\$ 194.37
\$ 90.60	50%	\$ 45.30
\$ 450.48	50%	\$ 225.24
\$ 3,624.00	50%	\$ 1,812.00
\$ 601.42	50%	\$ 300.71
\$ 79.20	50%	\$ 39.60
\$ 12.53	50%	\$ 6.27
\$ 7.58	50%	\$ 3.79
\$ 15.12	50%	\$ 7.56
\$ 878.40	50%	\$ 439.20
\$ 2,270.40	50%	\$ 1,135.20
\$ 20.68	50%	\$ 10.34
\$ 382.80	50%	\$ 191.40
\$ 52.54	50%	\$ 26.27
\$ 301.49	50%	\$ 150.75
\$ 993.36	50%	\$ 496.68
\$ 1,269.69	50%	\$ 634.85
\$ 423.59	50%	\$ 211.80
\$ 5,490.00	50%	\$ 2,745.00

\$ 2,196.00	50%	\$ 1,098.00
\$ 256.80	50%	\$ 128.40
Custom Bid	0%	Custom Bid
Custom Bid	0%	Custom Bid
Custom Bid	0%	Custom Bid
\$ 2.06	50%	\$ 1.03
\$ 3.20	50%	\$ 1.60
\$ 119.00	50%	\$ 59.50
\$ 119.00	50%	\$ 59.50
\$ 172.80	50%	\$ 86.40
\$ 4,422.60	50%	\$ 2,211.30
\$ 4,423.00	50%	\$ 2,211.50
\$ 5,327.00	50%	\$ 2,663.50
\$ 3,660.00	50%	\$ 1,830.00
\$ 6,346.00	50%	\$ 3,173.00
\$ 59.26	50%	\$ 29.63
\$ 29.63	50%	\$ 14.82
\$ 51.00	50%	\$ 25.50
\$ 238.00	50%	\$ 119.00
\$ 238.00	50%	\$ 119.00
\$ 1,688.00	50%	\$ 844.00
\$ 1,688.00	50%	\$ 844.00
\$ 691.20	50%	\$ 345.60
\$ 130.95	50%	\$ 65.48
\$ 130.95	50%	\$ 65.48
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 115.00	50%	\$ 57.50
\$ 586.00	50%	\$ 293.00
\$ 787.00	50%	\$ 393.50
\$ 72.00	50%	\$ 36.00
\$ 69.00	50%	\$ 34.50
\$ 70.00	50%	\$ 35.00
\$ 64.00	50%	\$ 32.00
\$ 229.50	50%	\$ 114.75
\$ 283.50	50%	\$ 141.75
\$ 283.50	50%	\$ 141.75
\$ 283.50	50%	\$ 141.75
\$ 283.50	50%	\$ 141.75
\$ 283.50	50%	\$ 141.75
\$ 283.50	50%	\$ 141.75
\$ 283.50	50%	\$ 141.75
\$ 283.50	50%	\$ 141.75
\$ 283.50	50%	\$ 141.75
\$ 283.50	50%	\$ 141.75
\$ 283.50	50%	\$ 141.75
\$ 284.00	50%	\$ 142.00
\$ 283.50	50%	\$ 141.75
\$ 184.95	50%	\$ 92.48
\$ 8,033.00	50%	\$ 4,016.50
\$ 9,000.00	50%	\$ 4,500.00
\$ 8,500.00	50%	\$ 4,250.00

\$ 270.00	50%	\$ 135.00
\$ 192.00	50%	\$ 96.00
\$ 270.00	50%	\$ 135.00
\$ 256.00	50%	\$ 128.00
\$ 8,460.00	50%	\$ 4,230.00
\$ 1,685.00	50%	\$ 842.50
\$ 373.00	50%	\$ 186.50
\$ 412.00	50%	\$ 206.00
\$ 7,960.00	50%	\$ 3,980.00
\$ 5,406.00	50%	\$ 2,703.00
\$ 4,800.60	50%	\$ 2,400.30
\$ 4,800.60	50%	\$ 2,400.30
\$ 4,800.60	50%	\$ 2,400.30
\$ 4,800.60	50%	\$ 2,400.30
\$ 4,800.60	50%	\$ 2,400.30
\$ 4,800.60	50%	\$ 2,400.30
\$ 4,800.60	50%	\$ 2,400.30
\$ 4,800.60	50%	\$ 2,400.30
\$ 4,800.60	50%	\$ 2,400.30
\$ 3,013.00	50%	\$ 1,506.50
\$ 29,019.00	50%	\$ 14,509.50
\$ 38,258.00	50%	\$ 19,129.00
\$ 34,000.00	50%	\$ 17,000.00
\$ 6,496.00	50%	\$ 3,248.00
\$ 1,756.00	50%	\$ 878.00
\$ 1,215.00	50%	\$ 607.50
\$ 4,928.00	50%	\$ 2,464.00
\$ 2,212.00	50%	\$ 1,106.00
\$ 2,064.00	50%	\$ 1,032.00
\$ 2,064.00	50%	\$ 1,032.00
\$ 1,350.00	50%	\$ 675.00
\$ 7,346.00	50%	\$ 3,673.00
\$ 3,924.00	50%	\$ 1,962.00
\$ 3,924.00	50%	\$ 1,962.00
\$ 3,924.00	50%	\$ 1,962.00
\$ 3,924.00	50%	\$ 1,962.00
\$ 3,924.00	50%	\$ 1,962.00
\$ 3,924.00	50%	\$ 1,962.00
\$ 3,924.00	50%	\$ 1,962.00
\$ 3,924.00	50%	\$ 1,962.00
\$ 628.00	50%	\$ 314.00
\$ 518.70	50%	\$ 259.35
\$ 518.70	50%	\$ 259.35
\$ 782.04	50%	\$ 391.02
\$ 782.04	50%	\$ 391.02
\$ 957.60	50%	\$ 478.80
\$ 957.60	50%	\$ 478.80
\$ 1,995.00	50%	\$ 997.50
\$ 1,995.00	50%	\$ 997.50
\$ 2,155.00	50%	\$ 1,077.50
\$ 2,155.00	50%	\$ 1,077.50

\$ 37.00	50%	\$ 18.50
\$ 37.00	50%	\$ 18.50
\$ 43.00	50%	\$ 21.50
\$ 43.00	50%	\$ 21.50
\$ 132.00	50%	\$ 66.00
\$ 132.00	50%	\$ 66.00
\$ 113.00	50%	\$ 56.50
\$ 113.00	50%	\$ 56.50
\$ 169.00	50%	\$ 84.50
\$ 169.00	50%	\$ 84.50
\$ 76.00	50%	\$ 38.00
\$ 76.00	50%	\$ 38.00
\$ 127.00	50%	\$ 63.50
\$ 127.00	50%	\$ 63.50
\$ 63.00	50%	\$ 31.50
\$ 63.00	50%	\$ 31.50
\$ 6,349.00	50%	\$ 3,174.50
\$ 3,477.00	50%	\$ 1,738.50
\$ 3,477.00	50%	\$ 1,738.50
\$ 35.00	50%	\$ 17.50
\$ 35.00	50%	\$ 17.50
\$ 2,159.00	50%	\$ 1,079.50
\$ 720.00	50%	\$ 360.00
\$ 2,777.00	50%	\$ 1,388.50
\$ 3,838.00	50%	\$ 1,919.00
\$ 6,346.00	50%	\$ 3,173.00
\$ 377.60	50%	\$ 188.80
\$ 722.70	50%	\$ 361.35
\$ 159.30	50%	\$ 79.65
\$ 57.50	50%	\$ 28.75
\$ 32.60	50%	\$ 16.30
\$ 50.17	50%	\$ 25.09
\$ 118.30	50%	\$ 59.15
\$ 9,270.00	50%	\$ 4,635.00
\$ 122.00	50%	\$ 61.00
\$ 48.00	50%	\$ 24.00
\$ 6,031.00	50%	\$ 3,015.50
\$ 14,780.00	50%	\$ 7,390.00
\$ 909.00	50%	\$ 454.50
\$ 381.00	50%	\$ 190.50
\$ 555.00	50%	\$ 277.50
\$ 586.00	50%	\$ 293.00
\$ 25.00	50%	\$ 12.50
\$ 32,010.00	50%	\$ 16,005.00
\$ 116.00	50%	\$ 58.00
\$ 77.00	50%	\$ 38.50
\$ 90.00	50%	\$ 45.00
\$ 115.00	50%	\$ 57.50
\$ 3,769.50	50%	\$ 1,884.75
\$ 4,274.00	50%	\$ 2,137.00

\$ 4,354.00	50%	\$ 2,177.00
\$ 2,735.00	50%	\$ 1,367.50
\$ 2,734.50	50%	\$ 1,367.25
\$ 1,728.30	50%	\$ 864.15
\$ 1,320.00	50%	\$ 660.00
\$ 1,320.00	50%	\$ 660.00
\$ 1,320.00	50%	\$ 660.00
\$ 1,320.00	50%	\$ 660.00
\$ 1,320.00	50%	\$ 660.00
\$ 12,832.00	50%	\$ 6,416.00
\$ 12,832.00	50%	\$ 6,416.00
\$ 45,000.00	50%	\$ 22,500.00
\$ 20,276.00	50%	\$ 10,138.00
\$ 7,200.00	50%	\$ 3,600.00
\$ 2,129.00	50%	\$ 1,064.50
\$ 5,841.00	50%	\$ 2,920.50
\$ 3,900.00	50%	\$ 1,950.00
\$ 268.00	50%	\$ 134.00
\$ 10,172.00	50%	\$ 5,086.00
\$ 6,560.00	50%	\$ 3,280.00
\$ 27,300.00	50%	\$ 13,650.00
\$ 34,800.00	50%	\$ 17,400.00
\$ 800.00	50%	\$ 400.00
\$ 700.00	50%	\$ 350.00
\$ 360.00	50%	\$ 180.00
\$ 400.00	50%	\$ 200.00
\$ 250.00	50%	\$ 125.00
\$ 400.00	50%	\$ 200.00
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 129.00	50%	\$ 64.50
\$ 910.00	50%	\$ 455.00
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 28.00	50%	\$ 14.00
\$ 35.00	50%	\$ 17.50
\$ 250.00	50%	\$ 125.00
\$ 500,000.00	50%	\$ 250,000.00
\$ 10,400.00	50%	\$ 5,200.00
\$ 10,200.00	50%	\$ 5,100.00
\$ 4,430.00	50%	\$ 2,215.00
\$ 4,430.00	50%	\$ 2,215.00
\$ 4,520.00	50%	\$ 2,260.00
\$ 4,520.00	50%	\$ 2,260.00
\$ 297.00	50%	\$ 148.50
\$ 83.00	50%	\$ 41.50
\$ 257.00	50%	\$ 128.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 281.00	50%	\$ 140.50

\$ 3,059.20	50%	\$ 1,529.60
\$ 494.08	50%	\$ 247.04
\$ 343.00	50%	\$ 171.50
\$ 485.12	50%	\$ 242.56
\$ 1,550.08	50%	\$ 775.04
\$ 1,980.00	50%	\$ 990.00
\$ 3,697.92	50%	\$ 1,848.96
\$ 8,497.92	50%	\$ 4,248.96
\$ 3,749.12	50%	\$ 1,874.56
\$ 2,512.00	50%	\$ 1,256.00
\$ 8,923.00	50%	\$ 4,461.50
\$ 4,052.00	50%	\$ 2,026.00
\$ 82.00	50%	\$ 41.00
\$ 796.00	50%	\$ 398.00
\$ 150.00	50%	\$ 75.00
\$ 10,688.00	50%	\$ 5,344.00
\$ 7,858.00	50%	\$ 3,929.00
\$ 29,505.00	50%	\$ 14,752.50
\$ 29,505.00	50%	\$ 14,752.50
\$ 1,561.60	50%	\$ 780.80
\$ 1,607.00	50%	\$ 803.50
\$ 3,469.00	50%	\$ 1,734.50
\$ 2,336.00	50%	\$ 1,168.00
\$ 4,960.00	50%	\$ 2,480.00
\$ 3,658.00	50%	\$ 1,829.00
\$ 10,980.00	50%	\$ 5,490.00
\$ 5,490.00	50%	\$ 2,745.00
\$ 2,196.00	50%	\$ 1,098.00
\$ 934.00	50%	\$ 467.00
\$ 15,680.00	50%	\$ 7,840.00
\$ 11,975.00	50%	\$ 5,987.50
\$ 12,160.00	50%	\$ 6,080.00
\$ 15,680.00	50%	\$ 7,840.00
\$ 11,976.00	50%	\$ 5,988.00
\$ 12,160.00	50%	\$ 6,080.00
\$ 3,816.00	50%	\$ 1,908.00
\$ 3,629.00	50%	\$ 1,814.50
\$ 16,640.00	50%	\$ 8,320.00
\$ 23,984.00	50%	\$ 11,992.00
\$ 6,394.00	50%	\$ 3,197.00
\$ 18,581.00	50%	\$ 9,290.50
\$ 23,992.00	50%	\$ 11,996.00
\$ 8,264.00	50%	\$ 4,132.00
\$ 8,387.00	50%	\$ 4,193.50
\$ 8,387.00	50%	\$ 4,193.50
\$ 8,387.00	50%	\$ 4,193.50
\$ 8,387.00	50%	\$ 4,193.50
\$ 8,387.00	50%	\$ 4,193.50
\$ 12,365.00	50%	\$ 6,182.50
\$ 2,302.00	50%	\$ 1,151.00

\$ 555.00	50%	\$ 277.50
\$ 1,386.00	50%	\$ 693.00
\$ 6,182.00	50%	\$ 3,091.00
\$ 2,516.00	50%	\$ 1,258.00
\$ 2,267.00	50%	\$ 1,133.50
\$ 3,400.00	50%	\$ 1,700.00
\$ 2,267.00	50%	\$ 1,133.50
\$ 89.60	50%	\$ 44.80
\$ 81.92	50%	\$ 40.96
\$ 24.32	50%	\$ 12.16
\$ 1,006.08	50%	\$ 503.04
\$ 1,044.48	50%	\$ 522.24
\$ 192.00	50%	\$ 96.00
\$ 457.00	50%	\$ 228.50
\$ 856.00	50%	\$ 428.00
\$ 62.00	50%	\$ 31.00
\$ 34.00	50%	\$ 17.00
\$ 35.00	50%	\$ 17.50
\$ 55.04	50%	\$ 27.52
\$ 129.28	50%	\$ 64.64
\$ 172.80	50%	\$ 86.40
\$ 1,196.00	50%	\$ 598.00
\$ 2,240.00	50%	\$ 1,120.00
\$ 1,144.00	50%	\$ 572.00
\$ 797.00	50%	\$ 398.50
\$ 1,078.00	50%	\$ 539.00
\$ 2,246.00	50%	\$ 1,123.00
\$ 1,267.00	50%	\$ 633.50
\$ 628.48	50%	\$ 314.24
\$ 1,254.40	50%	\$ 627.20
\$ 2,419.20	50%	\$ 1,209.60
\$ 629.76	50%	\$ 314.88
\$ 1,256.96	50%	\$ 628.48
\$ 2,540.80	50%	\$ 1,270.40
\$ 783.00	50%	\$ 391.50
\$ 887.00	50%	\$ 443.50
\$ 887.00	50%	\$ 443.50
\$ 783.00	50%	\$ 391.50
\$ 1,513.00	50%	\$ 756.50
\$ 134.40	50%	\$ 67.20
\$ 490.00	50%	\$ 245.00
\$ 490.00	50%	\$ 245.00
\$ 1,721.50	50%	\$ 860.75
\$ 2,087.00	50%	\$ 1,043.50
\$ 4,956.00	50%	\$ 2,478.00
\$ 6,260.00	50%	\$ 3,130.00
\$ 13,301.00	50%	\$ 6,650.50
\$ 313.00	50%	\$ 156.50
\$ 265.00	50%	\$ 132.50
\$ 327.00	50%	\$ 163.50

\$ 313.00	50%	\$ 156.50
\$ 115.00	50%	\$ 57.50
\$ 12,754.00	50%	\$ 6,377.00
\$ 43.00	50%	\$ 21.50
\$ 82,612.00	50%	\$ 41,306.00
\$ 2,592.00	50%	\$ 1,296.00
\$ 9,813.00	50%	\$ 4,906.50
\$ 5,774.00	50%	\$ 2,887.00
\$ 7,650.00	50%	\$ 3,825.00
\$ 720.00	50%	\$ 360.00
\$ 2,323.00	50%	\$ 1,161.50
\$ 441.60	50%	\$ 220.80
\$ 441.60	50%	\$ 220.80
\$ 439.04	50%	\$ 219.52
\$ 220.16	50%	\$ 110.08
\$ 122.00	50%	\$ 61.00
\$ 122.00	50%	\$ 61.00
\$ 93.00	50%	\$ 46.50
\$ 2,505.00	50%	\$ 1,252.50
\$ 901.00	50%	\$ 450.50
\$ 654.00	50%	\$ 327.00
\$ 474.00	50%	\$ 237.00
\$ 816.00	50%	\$ 408.00
\$ 783.00	50%	\$ 391.50
\$ 400.64	50%	\$ 200.32
\$ 334.00	50%	\$ 167.00
\$ 350.00	50%	\$ 175.00
\$ 180,000.00	50%	\$ 90,000.00
\$ 95,000.00	50%	\$ 47,500.00
\$ 98,000.00	50%	\$ 49,000.00
\$ 104,378.00	50%	\$ 52,189.00
\$ 80,000.00	50%	\$ 40,000.00
\$ 570,000.00	50%	\$ 285,000.00
\$ 549.00	50%	\$ 274.50
\$ 12,960.00	50%	\$ 6,480.00
\$ 8,040.00	50%	\$ 4,020.00
\$ 194,400.00	50%	\$ 97,200.00
\$ 2,515.00	50%	\$ 1,257.50
\$ 2,267.00	50%	\$ 1,133.50
\$ 3,400.00	50%	\$ 1,700.00
\$ 2,267.00	50%	\$ 1,133.50
\$ 47,905.00	50%	\$ 23,952.50
\$ 68,618.00	50%	\$ 34,309.00
\$ 6,303.00	50%	\$ 3,151.50
\$ 26,105.00	50%	\$ 13,052.50
\$ 31,000.00	50%	\$ 15,500.00
\$ 30,732.00	50%	\$ 15,366.00
\$ 162,121.00	50%	\$ 81,060.50
\$ 312.00	50%	\$ 156.00
\$ 6,500.00	50%	\$ 3,250.00

\$ 645,900.00	50%	\$ 322,950.00
\$ 260,000.00	50%	\$ 130,000.00
\$ 130,000.00	50%	\$ 65,000.00
\$ 206,635.00	50%	\$ 103,317.50
\$ 206,635.00	50%	\$ 103,317.50
\$ 206,635.00	50%	\$ 103,317.50
\$ 25,822.00	50%	\$ 12,911.00
\$ 2,522.00	50%	\$ 1,261.00
\$ 5,831.00	50%	\$ 2,915.50
\$ 343.00	50%	\$ 171.50
\$ 206,756.00	50%	\$ 103,378.00
\$ 77,466.00	50%	\$ 38,733.00
\$ 77,466.00	50%	\$ 38,733.00
\$ 77,466.00	50%	\$ 38,733.00
\$ 25,822.00	50%	\$ 12,911.00
\$ 206,576.00	50%	\$ 103,288.00
\$ 15,360.00	50%	\$ 7,680.00
\$ 77,466.00	50%	\$ 38,733.00
\$ 5,294.00	50%	\$ 2,647.00
\$ 77,466.00	50%	\$ 38,733.00
\$ 1.00	50%	\$ 0.50
\$ 1.00	50%	\$ 0.50
\$ 1.00	50%	\$ 0.50
\$ 67,685.00	50%	\$ 33,842.50
\$ 1.00	50%	\$ 0.50
\$ 188.00	50%	\$ 94.00
\$ 211.00	50%	\$ 105.50
\$ 211.00	50%	\$ 105.50
\$ 68.00	50%	\$ 34.00
\$ 103.00	50%	\$ 51.50
\$ 399.00	50%	\$ 199.50
\$ 103.00	50%	\$ 51.50
\$ 399.00	50%	\$ 199.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 6,780.00	50%	\$ 3,390.00
\$ 115.20	50%	\$ 57.60
\$ 115.00	50%	\$ 57.50
\$ 320.00	50%	\$ 160.00
\$ 326.00	50%	\$ 163.00
\$ 928.00	50%	\$ 464.00
\$ 882.00	50%	\$ 441.00
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 77.00	50%	\$ 38.50

\$ 115.00	50%	\$ 57.50
\$ 170,346.00	50%	\$ 85,173.00
\$ 109.00	50%	\$ 54.50
\$ 399,360.00	50%	\$ 199,680.00
\$ 399,360.00	50%	\$ 199,680.00
\$ 2,205.00	50%	\$ 1,102.50
\$ 2,362.50	50%	\$ 1,181.25
\$ 49,560.00	50%	\$ 24,780.00
\$ 49,560.00	50%	\$ 24,780.00
\$ 18,900.00	50%	\$ 9,450.00
\$ 18,900.00	50%	\$ 9,450.00
\$ 56,100.00	50%	\$ 28,050.00
\$ 56,100.00	50%	\$ 28,050.00
\$ 27,000.00	50%	\$ 13,500.00
\$ 27,000.00	50%	\$ 13,500.00
\$ 242.60	50%	\$ 121.30
\$ 450.00	50%	\$ 225.00
\$ 450.00	50%	\$ 225.00
\$ 210.00	50%	\$ 105.00
\$ 84.00	50%	\$ 42.00
\$ 210.00	50%	\$ 105.00
\$ 231.00	50%	\$ 115.50
\$ 651.00	50%	\$ 325.50
\$ 22,710.00	50%	\$ 11,355.00
\$ 22,710.00	50%	\$ 11,355.00
\$ 22,710.00	50%	\$ 11,355.00
\$ 22,710.00	50%	\$ 11,355.00
\$ 7,000.00	50%	\$ 3,500.00
\$ 1,100.00	50%	\$ 550.00
\$ 12,000.00	50%	\$ 6,000.00
\$ 78,387.00	50%	\$ 39,193.50
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 17,715.00	50%	\$ 8,857.50
\$ 61,252.00	50%	\$ 30,626.00
\$ 1,099,338.00	50%	\$ 549,669.00
\$ 9,000.00	50%	\$ 4,500.00
\$ 384.00	50%	\$ 192.00
\$ 113,280.00	50%	\$ 56,640.00
\$ 200,407.00	50%	\$ 100,203.50
\$ 10.00	50%	\$ 5.00
\$ 5,803.00	50%	\$ 2,901.50
\$ 4,352.00	50%	\$ 2,176.00
\$ 2,901.00	50%	\$ 1,450.50
\$ 1,451.00	50%	\$ 725.50
\$ 139,264.00	50%	\$ 69,632.00
\$ 104,448.00	50%	\$ 52,224.00
\$ 69,632.00	50%	\$ 34,816.00
\$ 3,760.00	50%	\$ 1,880.00
\$ 3,482.00	50%	\$ 1,741.00

\$ 4,004.00	50%	\$ 2,002.00
\$ 3,760.00	50%	\$ 1,880.00
\$ 3,760.00	50%	\$ 1,880.00
\$ 3,660.00	50%	\$ 1,830.00
\$ 2,074.00	50%	\$ 1,037.00
\$ 1,464.00	50%	\$ 732.00
\$ 1,318.00	50%	\$ 659.00
\$ 1,139.00	50%	\$ 569.50
\$ 4,810.00	50%	\$ 2,405.00
\$ 725.00	50%	\$ 362.50
\$ 6,400.00	50%	\$ 3,200.00
\$ 15,360.00	50%	\$ 7,680.00
\$ 15,360.00	50%	\$ 7,680.00
\$ 115.00	50%	\$ 57.50
\$ 16,039.00	50%	\$ 8,019.50
\$ 7,698.00	50%	\$ 3,849.00
\$ 672.00	50%	\$ 336.00
\$ 17,408.00	50%	\$ 8,704.00
\$ 7,540.00	50%	\$ 3,770.00
\$ 1,403.00	50%	\$ 701.50
\$ 14,030.00	50%	\$ 7,015.00
\$ 3,770.00	50%	\$ 1,885.00
\$ 25,000.00	50%	\$ 12,500.00
\$ 737.00	50%	\$ 368.50
\$ 145.00	50%	\$ 72.50
\$ 6,313.00	50%	\$ 3,156.50
\$ 18,134.00	50%	\$ 9,067.00
\$ 316.00	50%	\$ 158.00
\$ 1,200.00	50%	\$ 600.00
\$ 599,040.00	50%	\$ 299,520.00
\$ 131,939.00	50%	\$ 65,969.50
\$ 62,209.00	50%	\$ 31,104.50
\$ 108,800.00	50%	\$ 54,400.00
\$ 200.00	50%	\$ 100.00
\$ 151,680.00	50%	\$ 75,840.00
\$ 6,500.00	50%	\$ 3,250.00
\$ 6,500.00	50%	\$ 3,250.00
\$ 6,500.00	50%	\$ 3,250.00
\$ 6,500.00	50%	\$ 3,250.00
\$ 55.00	50%	\$ 27.50
\$ 55.00	50%	\$ 27.50
\$ 75.00	50%	\$ 37.50
\$ 75.00	50%	\$ 37.50
\$ 150.00	50%	\$ 75.00
\$ 150.00	50%	\$ 75.00
\$ 150.00	50%	\$ 75.00
\$ 129.00	50%	\$ 64.50
\$ 129.00	50%	\$ 64.50
\$ 8,450.00	50%	\$ 4,225.00
\$ 898,560.00	50%	\$ 449,280.00

\$ 154,143.00	50%	\$ 77,071.50
\$ 643,484.00	50%	\$ 321,742.00
\$ 104,248.00	50%	\$ 52,124.00
\$ 176,800.00	50%	\$ 88,400.00
\$ 88,289.00	50%	\$ 44,144.50
\$ 1,984.00	50%	\$ 992.00
\$ 14,464.00	50%	\$ 7,232.00
\$ 484,611.00	50%	\$ 242,305.50
\$ 46,735.00	50%	\$ 23,367.50
\$ 12,193.00	50%	\$ 6,096.50
\$ 55,782.00	50%	\$ 27,891.00
\$ 55,782.00	50%	\$ 27,891.00
\$ 45.00	50%	\$ 22.50
\$ 116,053.00	50%	\$ 58,026.50
\$ 98,645.00	50%	\$ 49,322.50
\$ 184,817.00	50%	\$ 92,408.50
\$ 184,817.00	50%	\$ 92,408.50
\$ 2,864.00	50%	\$ 1,432.00
\$ 3,819.00	50%	\$ 1,909.50
\$ 2,164.00	50%	\$ 1,082.00
\$ 1,528.00	50%	\$ 764.00
\$ 38,190.00	50%	\$ 19,095.00
\$ 21,640.00	50%	\$ 10,820.00
\$ 15,280.00	50%	\$ 7,640.00
\$ 28,640.00	50%	\$ 14,320.00
\$ 4,352.00	50%	\$ 2,176.00
\$ 2,901.00	50%	\$ 1,450.50
\$ 1,451.00	50%	\$ 725.50
\$ 104,448.00	50%	\$ 52,224.00
\$ 69,632.00	50%	\$ 34,816.00
\$ 34,816.00	50%	\$ 17,408.00
\$ 5,803.00	50%	\$ 2,901.50
\$ 4,352.00	50%	\$ 2,176.00
\$ 2,901.00	50%	\$ 1,450.50
\$ 1,451.00	50%	\$ 725.50
\$ 1,100.00	50%	\$ 550.00
\$ 11,000.00	50%	\$ 5,500.00
\$ 69,632.00	50%	\$ 34,816.00
\$ 34,816.00	50%	\$ 17,408.00
\$ 778.00	50%	\$ 389.00
\$ 622.00	50%	\$ 311.00
\$ 7,780.00	50%	\$ 3,890.00
\$ 6,220.00	50%	\$ 3,110.00
\$ 973.00	50%	\$ 486.50
\$ 778.00	50%	\$ 389.00
\$ 1,451.00	50%	\$ 725.50
\$ 9,730.00	50%	\$ 4,865.00
\$ 7,780.00	50%	\$ 3,890.00
\$ 4,810.00	50%	\$ 2,405.00
\$ 6,528.00	50%	\$ 3,264.00

\$ 156,672.00	50%	\$ 78,336.00
\$ 4,352.00	50%	\$ 2,176.00
\$ 2,901.00	50%	\$ 1,450.50
\$ 1,451.00	50%	\$ 725.50
\$ 104,448.00	50%	\$ 52,224.00
\$ 69,632.00	50%	\$ 34,816.00
\$ 34,816.00	50%	\$ 17,408.00
\$ 3,183.00	50%	\$ 1,591.50
\$ 1,804.00	50%	\$ 902.00
\$ 1,273.00	50%	\$ 636.50
\$ 1,146.00	50%	\$ 573.00
\$ 990.00	50%	\$ 495.00
\$ 8,704.00	50%	\$ 4,352.00
\$ 1,306.00	50%	\$ 653.00
\$ 31,830.00	50%	\$ 15,915.00
\$ 18,040.00	50%	\$ 9,020.00
\$ 12,730.00	50%	\$ 6,365.00
\$ 11,460.00	50%	\$ 5,730.00
\$ 9,900.00	50%	\$ 4,950.00
\$ 208,896.00	50%	\$ 104,448.00
\$ 31,334.00	50%	\$ 15,667.00
\$ 5,803.00	50%	\$ 2,901.50
\$ 4,352.00	50%	\$ 2,176.00
\$ 2,901.00	50%	\$ 1,450.50
\$ 36,600.00	50%	\$ 18,300.00
\$ 20,740.00	50%	\$ 10,370.00
\$ 14,640.00	50%	\$ 7,320.00
\$ 13,180.00	50%	\$ 6,590.00
\$ 11,390.00	50%	\$ 5,695.00
\$ 1,306.00	50%	\$ 653.00
\$ 2,901.00	50%	\$ 1,450.50
\$ 4,352.00	50%	\$ 2,176.00
\$ 5,803.00	50%	\$ 2,901.50
\$ 6,528.00	50%	\$ 3,264.00
\$ 31,334.00	50%	\$ 15,667.00
\$ 69,632.00	50%	\$ 34,816.00
\$ 104,448.00	50%	\$ 52,224.00
\$ 139,264.00	50%	\$ 69,632.00
\$ 156,672.00	50%	\$ 78,336.00
\$ 4,352.00	50%	\$ 2,176.00
\$ 2,901.00	50%	\$ 1,450.50
\$ 1,451.00	50%	\$ 725.50
\$ 104,448.00	50%	\$ 52,224.00
\$ 69,632.00	50%	\$ 34,816.00
\$ 34,816.00	50%	\$ 17,408.00
\$ 3,760.00	50%	\$ 1,880.00
\$ 3,760.00	50%	\$ 1,880.00
\$ 3,760.00	50%	\$ 1,880.00
\$ 3,760.00	50%	\$ 1,880.00
\$ 3,760.00	50%	\$ 1,880.00

\$ 23,180.00	50%	\$ 11,590.00
\$ 96,000.00	50%	\$ 48,000.00
\$ 99,844.00	50%	\$ 49,922.00
\$ 6,410.00	50%	\$ 3,205.00
\$ 107,346.00	50%	\$ 53,673.00
\$ 18,710.00	50%	\$ 9,355.00
\$ 35,401.00	50%	\$ 17,700.50
\$ 31,334.00	50%	\$ 15,667.00
\$ 1,306.00	50%	\$ 653.00
\$ 103,560.00	50%	\$ 51,780.00
\$ 522,080.00	50%	\$ 261,040.00
\$ 77.00	50%	\$ 38.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 378,000.00	50%	\$ 189,000.00
\$ 115.00	50%	\$ 57.50
\$ 3,277.00	50%	\$ 1,638.50
\$ 3,277.00	50%	\$ 1,638.50
\$ 3,277.00	50%	\$ 1,638.50
\$ 77.00	50%	\$ 38.50
\$ 115.00	50%	\$ 57.50
\$ 10,601.00	50%	\$ 5,300.50
\$ 593.66	50%	\$ 296.83
\$ 110.00	50%	\$ 55.00
\$ 22.00	50%	\$ 11.00
\$ 77,000.00	50%	\$ 38,500.00
\$ 77,000.00	50%	\$ 38,500.00
\$ 371,035.00	50%	\$ 185,517.50
\$ 1.00	50%	\$ 0.50
\$ 1.00	50%	\$ 0.50
\$ 110.00	50%	\$ 55.00
\$ 22.00	50%	\$ 11.00
\$ 399,980.00	50%	\$ 199,990.00
\$ 110.00	50%	\$ 55.00
\$ 399,980.00	50%	\$ 199,990.00
\$ 399,980.00	50%	\$ 199,990.00
\$ 14,400.00	50%	\$ 7,200.00
\$ 34.00	50%	\$ 17.00
\$ 114.00	50%	\$ 57.00
\$ 342.00	50%	\$ 171.00
\$ 34.00	50%	\$ 17.00
\$ 114.00	50%	\$ 57.00
\$ 342.00	50%	\$ 171.00
\$ 23.00	50%	\$ 11.50
\$ 76.00	50%	\$ 38.00
\$ 228.00	50%	\$ 114.00
\$ 152.00	50%	\$ 76.00
\$ 456.00	50%	\$ 228.00
\$ 23.00	50%	\$ 11.50

\$ 76.00	50%	\$ 38.00
\$ 228.00	50%	\$ 114.00
\$ 17,974.00	50%	\$ 8,987.00
\$ 800,000.00	50%	\$ 400,000.00
\$ 800,000.00	50%	\$ 400,000.00
\$ 768.00	50%	\$ 384.00
\$ 204,800.00	50%	\$ 102,400.00
\$ 38,400.00	50%	\$ 19,200.00
\$ 2,092.00	50%	\$ 1,046.00
\$ 3,200.00	50%	\$ 1,600.00
\$ 247.00	50%	\$ 123.50
\$ 29,384.00	50%	\$ 14,692.00
\$ 1,168,640.00	50%	\$ 584,320.00
\$ 115.00	50%	\$ 57.50
\$ 340.00	50%	\$ 170.00
\$ 204,800.00	50%	\$ 102,400.00
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 826,752.00	50%	\$ 413,376.00
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 6,400.00	50%	\$ 3,200.00
\$ 71,004.00	50%	\$ 35,502.00
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 4,768.00	50%	\$ 2,384.00
\$ 204,903.00	50%	\$ 102,451.50
\$ 202,192.00	50%	\$ 101,096.00
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 202,043.00	50%	\$ 101,021.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 375,000.00	50%	\$ 187,500.00
\$ 48,337.00	50%	\$ 24,168.50
\$ 46,393.60	50%	\$ 23,196.80
\$ 46,393.60	50%	\$ 23,196.80
\$ 57,343.00	50%	\$ 28,671.50
\$ 50,176.00	50%	\$ 25,088.00
\$ 50,176.00	50%	\$ 25,088.00
\$ 22,737.00	50%	\$ 11,368.50
\$ 32,750.00	50%	\$ 16,375.00
\$ 32,750.00	50%	\$ 16,375.00
\$ 16,050.00	50%	\$ 8,025.00
\$ 61,744.00	50%	\$ 30,872.00
\$ 53,168.00	50%	\$ 26,584.00
\$ 34,722.00	50%	\$ 17,361.00
\$ 44.00	50%	\$ 22.00
\$ 40.00	50%	\$ 20.00

\$ 81.00	50%	\$ 40.50
\$ 634.00	50%	\$ 317.00
\$ 757.02	50%	\$ 378.51
\$ 2,659.00	50%	\$ 1,329.50
\$ 1,507.34	50%	\$ 753.67
\$ 375.04	50%	\$ 187.52
\$ 1,516.00	50%	\$ 758.00
\$ 89.00	50%	\$ 44.50
\$ 798.00	50%	\$ 399.00
\$ 644.41	50%	\$ 322.21
\$ 468.00	50%	\$ 234.00
\$ 261.00	50%	\$ 130.50
\$ 261.00	50%	\$ 130.50
\$ 261.00	50%	\$ 130.50
\$ 261.00	50%	\$ 130.50
\$ 26,091.00	50%	\$ 13,045.50
\$ 1,044.00	50%	\$ 522.00
\$ 1,044.00	50%	\$ 522.00
\$ 783.00	50%	\$ 391.50
\$ 783.00	50%	\$ 391.50
\$ 783.00	50%	\$ 391.50
\$ 103.00	50%	\$ 51.50
\$ 2,609.00	50%	\$ 1,304.50
\$ 2,609.00	50%	\$ 1,304.50
\$ 5,218.00	50%	\$ 2,609.00
\$ 560.00	50%	\$ 280.00
\$ 115.20	50%	\$ 57.60
\$ 115.00	50%	\$ 57.50
\$ 115.20	50%	\$ 57.60
\$ 115.20	50%	\$ 57.60
\$ 34.00	50%	\$ 17.00
\$ 72.00	50%	\$ 36.00
\$ 409.00	50%	\$ 204.50
\$ 41.00	50%	\$ 20.50
\$ 560.00	50%	\$ 280.00
\$ 41.00	50%	\$ 20.50
\$ 328.00	50%	\$ 164.00
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 323.32	50%	\$ 161.66
\$ 115.00	50%	\$ 57.50
\$ 112.00	50%	\$ 56.00
\$ 112.00	50%	\$ 56.00
\$ 2,323.19	50%	\$ 1,161.60
\$ 1,068.34	50%	\$ 534.17
\$ 1,746.89	50%	\$ 873.45
\$ 86.50	50%	\$ 43.25
\$ 112.00	50%	\$ 56.00
\$ 112.00	50%	\$ 56.00
\$ 112.00	50%	\$ 56.00

\$ 112.00	50%	\$ 56.00
\$ 33,503.00	50%	\$ 16,751.50
\$ 43,332.00	50%	\$ 21,666.00
\$ 101.11	50%	\$ 50.56
\$ 101.11	50%	\$ 50.56
\$ 55.05	50%	\$ 27.53
\$ 188.73	50%	\$ 94.37
\$ 19,084.32	50%	\$ 9,542.16
\$ 19,098.92	50%	\$ 9,549.46
\$ 6,139.38	50%	\$ 3,069.69
\$ 6,139.38	50%	\$ 3,069.69
\$ 6,139.38	50%	\$ 3,069.69
\$ 6,139.38	50%	\$ 3,069.69
\$ 6,139.38	50%	\$ 3,069.69
\$ 6,139.38	50%	\$ 3,069.69
\$ 6,139.38	50%	\$ 3,069.69
\$ 6,139.38	50%	\$ 3,069.69
\$ 8,574.91	50%	\$ 4,287.46
\$ 8,574.91	50%	\$ 4,287.46
\$ 8,574.91	50%	\$ 4,287.46
\$ 8,574.91	50%	\$ 4,287.46
\$ 97.38	50%	\$ 48.69
\$ 112.00	50%	\$ 56.00
\$ 112.00	50%	\$ 56.00
\$ 105.37	50%	\$ 52.69
\$ 112.00	50%	\$ 56.00
\$ 112.00	50%	\$ 56.00
\$ 105.37	50%	\$ 52.69
\$ 5,309.19	50%	\$ 2,654.60
\$ 5,760.00	50%	\$ 2,880.00
\$ 10,880.00	50%	\$ 5,440.00
\$ 1,024.00	50%	\$ 512.00
\$ 17,920.00	50%	\$ 8,960.00
\$ 5,989.00	50%	\$ 2,994.50
\$ 122.00	50%	\$ 61.00
\$ 90.00	50%	\$ 45.00
\$ 243.00	50%	\$ 121.50
\$ 122.00	50%	\$ 61.00
\$ 426.00	50%	\$ 213.00
\$ 399.00	50%	\$ 199.50
\$ 1,261.00	50%	\$ 630.50
\$ 180.00	50%	\$ 90.00
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 125.00	50%	\$ 62.50
\$ 3,277.00	50%	\$ 1,638.50
\$ 3,277.00	50%	\$ 1,638.50
\$ 1.10	50%	\$ 0.55
\$ 1.00	50%	\$ 0.50
\$ 200.00	50%	\$ 100.00

\$ 300,000.00	50%	\$ 150,000.00
\$ 5,200.00	50%	\$ 2,600.00
\$ 6,000.00	50%	\$ 3,000.00
\$ 27,000.00	50%	\$ 13,500.00
\$ 27,000.00	50%	\$ 13,500.00
\$ 7,500.00	50%	\$ 3,750.00
\$ 12,000.00	50%	\$ 6,000.00
\$ 3,800.00	50%	\$ 1,900.00
\$ 32,000.00	50%	\$ 16,000.00
\$ 45,000.00	50%	\$ 22,500.00
\$ 441.00	50%	\$ 220.50
\$ 90.00	50%	\$ 45.00
\$ 950.00	50%	\$ 475.00
\$ 69,000.00	50%	\$ 34,500.00
\$ 150.00	50%	\$ 75.00
\$ 39,000.00	50%	\$ 19,500.00
\$ 6,800.00	50%	\$ 3,400.00
\$ 620.00	50%	\$ 310.00
\$ 18,000.00	50%	\$ 9,000.00
\$ 71,000.00	50%	\$ 35,500.00
\$ 108.00	50%	\$ 54.00
\$ 12,000.00	50%	\$ 6,000.00
\$ 38,000.00	50%	\$ 19,000.00
\$ 12,960.00	50%	\$ 6,480.00
\$ 8,040.00	50%	\$ 4,020.00
\$ 81,000.00	50%	\$ 40,500.00
\$ 950.00	50%	\$ 475.00
\$ 5,201.00	50%	\$ 2,600.50
\$ 566.00	50%	\$ 283.00
\$ 840.00	50%	\$ 420.00
\$ 191.00	50%	\$ 95.50
\$ 95.00	50%	\$ 47.50
\$ 90.00	50%	\$ 45.00
\$ 307.00	50%	\$ 153.50
\$ 303.00	50%	\$ 151.50
\$ 741.00	50%	\$ 370.50
\$ 7,500.00	50%	\$ 3,750.00
\$ 314.00	50%	\$ 157.00
\$ 1,800.00	50%	\$ 900.00
\$ 1,323.00	50%	\$ 661.50
\$ 1,323.00	50%	\$ 661.50
\$ 300.00	50%	\$ 150.00
\$ 3,010.00	50%	\$ 1,505.00
\$ 1,988.00	50%	\$ 994.00
\$ 8,928.00	50%	\$ 4,464.00
\$ 1,164.00	50%	\$ 582.00
\$ 580.00	50%	\$ 290.00
\$ 617.00	50%	\$ 308.50
\$ 120.00	50%	\$ 60.00
\$ 68.00	50%	\$ 34.00

\$ 331.00	50%	\$ 165.50
\$ 358.00	50%	\$ 179.00
\$ 98.86	50%	\$ 49.43
\$ 87.00	50%	\$ 43.50
\$ 87.00	50%	\$ 43.50
\$ 41.00	50%	\$ 20.50
\$ 64.00	50%	\$ 32.00
\$ 105.00	50%	\$ 52.50
\$ 216.00	50%	\$ 108.00
\$ 256.00	50%	\$ 128.00
\$ 350.00	50%	\$ 175.00
\$ 89.00	50%	\$ 44.50
\$ 88.00	50%	\$ 44.00
\$ 132.00	50%	\$ 66.00
\$ 160.00	50%	\$ 80.00
\$ 281.00	50%	\$ 140.50
\$ 81.00	50%	\$ 40.50
\$ 863.00	50%	\$ 431.50
\$ 891.00	50%	\$ 445.50
\$ 35.00	50%	\$ 17.50
\$ 39.00	50%	\$ 19.50
Custom Bid	0%	Custom Bid
\$ 913.00	50%	\$ 456.50
\$ 156.16	50%	\$ 78.08
\$ 128.00	50%	\$ 64.00
\$ 128.00	50%	\$ 64.00
\$ 135.00	50%	\$ 67.50
\$ 135.00	50%	\$ 67.50
\$ 1,200.00	50%	\$ 600.00
\$ 1,200.00	50%	\$ 600.00
\$ 1,545.00	50%	\$ 772.50
\$ 1,436.00	50%	\$ 718.00
\$ 4,064.00	50%	\$ 2,032.00
\$ 4,064.00	50%	\$ 2,032.00
\$ 4,064.00	50%	\$ 2,032.00
\$ 4,064.00	50%	\$ 2,032.00
\$ 4,064.00	50%	\$ 2,032.00
\$ 4,064.00	50%	\$ 2,032.00
\$ 4,064.00	50%	\$ 2,032.00
\$ 4,064.00	50%	\$ 2,032.00
\$ 4,064.00	50%	\$ 2,032.00
\$ 4,064.00	50%	\$ 2,032.00
\$ 1,688.00	50%	\$ 844.00
\$ 3,133.00	50%	\$ 1,566.50
\$ 3,133.00	50%	\$ 1,566.50
\$ 2,678.00	50%	\$ 1,339.00
\$ 2,498.00	50%	\$ 1,249.00
\$ 30,011.00	50%	\$ 15,005.50
\$ 17,408.00	50%	\$ 8,704.00
\$ 11,610.00	50%	\$ 5,805.00

\$ 11,610.00	50%	\$ 5,805.00
\$ 14,615.00	50%	\$ 7,307.50
\$ 14,615.00	50%	\$ 7,307.50
\$ 24,567.62	50%	\$ 12,283.81
\$ 16,409.60	50%	\$ 8,204.80
\$ 9,504.00	50%	\$ 4,752.00
\$ 210.00	50%	\$ 105.00
\$ 210.00	50%	\$ 105.00
\$ 432.00	50%	\$ 216.00
\$ 432.00	50%	\$ 216.00
\$ 47.00	50%	\$ 23.50
\$ 47.00	50%	\$ 23.50
\$ 513.00	50%	\$ 256.50
\$ 513.00	50%	\$ 256.50
\$ 966.00	50%	\$ 483.00
\$ 966.00	50%	\$ 483.00
\$ 117.30	50%	\$ 58.65
\$ 121.60	50%	\$ 60.80
\$ 86.82	50%	\$ 43.41
\$ 144.64	50%	\$ 72.32
\$ 120.00	50%	\$ 60.00
\$ 99.84	50%	\$ 49.92
\$ 60.00	50%	\$ 30.00
\$ 60.00	50%	\$ 30.00
\$ 2,712.00	50%	\$ 1,356.00
\$ 2,712.00	50%	\$ 1,356.00
\$ 3,042.00	50%	\$ 1,521.00
\$ 3,042.00	50%	\$ 1,521.00
\$ 9,430.20	50%	\$ 4,715.10
\$ 9,430.20	50%	\$ 4,715.10
\$ 5,642.00	50%	\$ 2,821.00
\$ 5,642.00	50%	\$ 2,821.00
\$ 3,894.00	50%	\$ 1,947.00
\$ 3,894.00	50%	\$ 1,947.00
\$ 4,417.00	50%	\$ 2,208.50
\$ 4,417.00	50%	\$ 2,208.50
\$ 11,292.60	50%	\$ 5,646.30
\$ 11,292.60	50%	\$ 5,646.30
\$ 7,686.00	50%	\$ 3,843.00
\$ 7,686.00	50%	\$ 3,843.00
\$ 5,077.00	50%	\$ 2,538.50
\$ 5,077.00	50%	\$ 2,538.50
\$ 5,772.00	50%	\$ 2,886.00
\$ 5,772.00	50%	\$ 2,886.00
\$ 12,809.30	50%	\$ 6,404.65
\$ 12,809.30	50%	\$ 6,404.65
\$ 9,561.00	50%	\$ 4,780.50
\$ 9,561.00	50%	\$ 4,780.50
\$ 6,518.00	50%	\$ 3,259.00
\$ 6,518.00	50%	\$ 3,259.00

\$ 468.00	50%	\$ 234.00
\$ 468.00	50%	\$ 234.00
\$ 223.00	50%	\$ 111.50
\$ 223.00	50%	\$ 111.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 1,535.00	50%	\$ 767.50
\$ 1,535.00	50%	\$ 767.50
\$ 122.00	50%	\$ 61.00
\$ 122.00	50%	\$ 61.00
\$ 3,024.00	50%	\$ 1,512.00
\$ 870.00	50%	\$ 435.00
\$ 870.00	50%	\$ 435.00
\$ 90.00	50%	\$ 45.00
\$ 108.00	50%	\$ 54.00
\$ 91.80	50%	\$ 45.90
\$ 80.00	50%	\$ 40.00
\$ 4,000.00	50%	\$ 2,000.00
\$ 300.00	50%	\$ 150.00
\$ 192.00	50%	\$ 96.00
\$ 192.00	50%	\$ 96.00
\$ 300.00	50%	\$ 150.00
\$ 300.00	50%	\$ 150.00
\$ 256.00	50%	\$ 128.00
\$ 397.00	50%	\$ 198.50
\$ 592.00	50%	\$ 296.00
\$ 19,995.00	50%	\$ 9,997.50
\$ 24,624.00	50%	\$ 12,312.00
\$ 12,588.80	50%	\$ 6,294.40
\$ 14,907.00	50%	\$ 7,453.50
\$ 14,907.00	50%	\$ 7,453.50
\$ 20,250.00	50%	\$ 10,125.00
\$ 16,409.60	50%	\$ 8,204.80
\$ 17,427.00	50%	\$ 8,713.50
\$ 135,000.00	50%	\$ 67,500.00
\$ 33,750.00	50%	\$ 16,875.00
\$ 212.00	50%	\$ 106.00
\$ 212.00	50%	\$ 106.00
\$ 383.00	50%	\$ 191.50
\$ 383.00	50%	\$ 191.50
\$ 383.00	50%	\$ 191.50
\$ 383.00	50%	\$ 191.50
\$ 165.00	50%	\$ 82.50
\$ 558.00	50%	\$ 279.00
\$ 383.00	50%	\$ 191.50
\$ 383.00	50%	\$ 191.50
\$ 383.00	50%	\$ 191.50
\$ 383.00	50%	\$ 191.50
\$ 150.00	50%	\$ 75.00
\$ 5,150.00	50%	\$ 2,575.00

\$ 4,883.00	50%	\$ 2,441.50
\$ 10,580.00	50%	\$ 5,290.00
\$ 10,580.00	50%	\$ 5,290.00
\$ 10,580.00	50%	\$ 5,290.00
\$ 10,580.00	50%	\$ 5,290.00
\$ 10,580.00	50%	\$ 5,290.00
\$ 10,580.00	50%	\$ 5,290.00
\$ 10,580.00	50%	\$ 5,290.00
\$ 10,580.00	50%	\$ 5,290.00
\$ 1,903.00	50%	\$ 951.50
\$ 635.00	50%	\$ 317.50
\$ 1,903.00	50%	\$ 951.50
\$ 635.00	50%	\$ 317.50
\$ 18,117.00	50%	\$ 9,058.50
\$ 15,940.00	50%	\$ 7,970.00
\$ 32,562.00	50%	\$ 16,281.00
\$ 27,005.00	50%	\$ 13,502.50
\$ 27,005.00	50%	\$ 13,502.50
\$ 211.00	50%	\$ 105.50
\$ 211.00	50%	\$ 105.50
\$ 32,553.00	50%	\$ 16,276.50
\$ 135.00	50%	\$ 67.50
\$ 128.00	50%	\$ 64.00
\$ 1,671.00	50%	\$ 835.50
\$ 1,671.00	50%	\$ 835.50
\$ 19,744.00	50%	\$ 9,872.00
\$ 69,950.00	50%	\$ 34,975.00
\$ 25,988.00	50%	\$ 12,994.00
\$ 33,280.00	50%	\$ 16,640.00
\$ 29,531.00	50%	\$ 14,765.50
\$ 66,832.00	50%	\$ 33,416.00
\$ 68,070.00	50%	\$ 34,035.00
\$ 18,559.00	50%	\$ 9,279.50
\$ 27,000.00	50%	\$ 13,500.00
\$ 81,000.00	50%	\$ 40,500.00
\$ 26,169.00	50%	\$ 13,084.50
\$ 2,057.00	50%	\$ 1,028.50
\$ 605.00	50%	\$ 302.50
\$ 23,625.00	50%	\$ 11,812.50
\$ 168,924.00	50%	\$ 84,462.00
\$ 750.00	50%	\$ 375.00
\$ 6,000.00	50%	\$ 3,000.00
\$ 10,000.00	50%	\$ 5,000.00
\$ 15,000.00	50%	\$ 7,500.00
\$ 375.00	50%	\$ 187.50
\$ 3,000.00	50%	\$ 1,500.00
\$ 5,000.00	50%	\$ 2,500.00
\$ 7,500.00	50%	\$ 3,750.00
\$ 270,000.00	50%	\$ 135,000.00
\$ 14,109.00	50%	\$ 7,054.50

\$ 13,001.00	50%	\$ 6,500.50
\$ 162.00	50%	\$ 81.00
\$ 17,550.00	50%	\$ 8,775.00
\$ 111.00	50%	\$ 55.50
\$ 39,640.00	50%	\$ 19,820.00
\$ 112,640.00	50%	\$ 56,320.00
\$ 18.00	50%	\$ 9.00
\$ 21.00	50%	\$ 10.50
\$ 27.00	50%	\$ 13.50
\$ 31.00	50%	\$ 15.50
\$ 46,523.00	50%	\$ 23,261.50
\$ 77,432.32	50%	\$ 38,716.16
\$ 154,184.00	50%	\$ 77,092.00
\$ 87,885.00	50%	\$ 43,942.50
\$ 69,420.00	50%	\$ 34,710.00
\$ 65,820.00	50%	\$ 32,910.00
\$ 65,820.16	50%	\$ 32,910.08
\$ 65,820.16	50%	\$ 32,910.08
\$ 55,987.20	50%	\$ 27,993.60
\$ 195,802.88	50%	\$ 97,901.44
\$ 77.00	50%	\$ 38.50
\$ 4,864.00	50%	\$ 2,432.00
\$ 3,965.00	50%	\$ 1,982.50
\$ 6,400.00	50%	\$ 3,200.00
\$ 1,350.00	50%	\$ 675.00
\$ 1,350.00	50%	\$ 675.00
\$ 1,496.00	50%	\$ 748.00
\$ 1,606.00	50%	\$ 803.00
\$ 121,500.00	50%	\$ 60,750.00
\$ 17,550.00	50%	\$ 8,775.00
\$ 426.00	50%	\$ 213.00
\$ 458.00	50%	\$ 229.00
\$ 619.00	50%	\$ 309.50
\$ 749.00	50%	\$ 374.50
\$ 330.00	50%	\$ 165.00
\$ 299.00	50%	\$ 149.50
\$ 753.00	50%	\$ 376.50
\$ 1,248.00	50%	\$ 624.00
\$ 1,290.00	50%	\$ 645.00
\$ 1,301.00	50%	\$ 650.50
\$ 437.00	50%	\$ 218.50
\$ 417.00	50%	\$ 208.50
\$ 315.00	50%	\$ 157.50
\$ 2,194.00	50%	\$ 1,097.00
\$ 42.00	50%	\$ 21.00
\$ 46.00	50%	\$ 23.00
\$ 29.00	50%	\$ 14.50
\$ 38.00	50%	\$ 19.00
Custom Bid	0%	Custom Bid
\$ 46,080.00	50%	\$ 23,040.00

\$ 39,680.00	50%	\$ 19,840.00
\$ 39,680.00	50%	\$ 19,840.00
\$ 185,897.00	50%	\$ 92,948.50
\$ 172,459.00	50%	\$ 86,229.50
\$ 179,178.00	50%	\$ 89,589.00
\$ 167,979.00	50%	\$ 83,989.50
\$ 180,768.00	50%	\$ 90,384.00
\$ 6,433.00	50%	\$ 3,216.50
\$ 3,235.00	50%	\$ 1,617.50
\$ 78,246.00	50%	\$ 39,123.00
\$ 225,798.00	50%	\$ 112,899.00
\$ 87,349.00	50%	\$ 43,674.50
\$ 45,000.00	50%	\$ 22,500.00
\$ 2,185.00	50%	\$ 1,092.50
\$ 7,064.00	50%	\$ 3,532.00
\$ 1,634.00	50%	\$ 817.00
\$ 320,000.00	50%	\$ 160,000.00
\$ 379,521.00	50%	\$ 189,760.50
\$ 99.00	50%	\$ 49.50
\$ 6,593.00	50%	\$ 3,296.50
\$ 6,646.00	50%	\$ 3,323.00
\$ 11,644.00	50%	\$ 5,822.00
\$ 12,592.00	50%	\$ 6,296.00
\$ 17,150.00	50%	\$ 8,575.00
\$ 17,200.00	50%	\$ 8,600.00
\$ 3,300.00	50%	\$ 1,650.00
\$ 600.00	50%	\$ 300.00
\$ 200.00	50%	\$ 100.00
\$ 648.00	50%	\$ 324.00
\$ 650.00	50%	\$ 325.00
\$ 650.00	50%	\$ 325.00
\$ 685.00	50%	\$ 342.50
\$ 715.00	50%	\$ 357.50
\$ 788.00	50%	\$ 394.00
\$ 280.00	50%	\$ 140.00
\$ 287.00	50%	\$ 143.50
\$ 283.00	50%	\$ 141.50
\$ 295.00	50%	\$ 147.50
\$ 299.00	50%	\$ 149.50
\$ 372.00	50%	\$ 186.00
\$ 128.00	50%	\$ 64.00
\$ 128.00	50%	\$ 64.00
\$ 128.00	50%	\$ 64.00
\$ 13,166.00	50%	\$ 6,583.00
\$ 13,166.00	50%	\$ 6,583.00
\$ 13,166.00	50%	\$ 6,583.00
\$ 13,166.00	50%	\$ 6,583.00
\$ 320.00	50%	\$ 160.00
\$ 227.00	50%	\$ 113.50
\$ 156.00	50%	\$ 78.00

\$ 363.00	50%	\$ 181.50
\$ 156.00	50%	\$ 78.00
\$ 156.00	50%	\$ 78.00
\$ 156.00	50%	\$ 78.00
\$ 210.00	50%	\$ 105.00
\$ 168.00	50%	\$ 84.00
\$ 150.00	50%	\$ 75.00
\$ 270.00	50%	\$ 135.00
\$ 61.60	50%	\$ 30.80
\$ 99.30	50%	\$ 49.65
\$ 41.60	50%	\$ 20.80
\$ 43.50	50%	\$ 21.75
\$ 45.80	50%	\$ 22.90
\$ 99.30	50%	\$ 49.65
\$ 68.00	50%	\$ 34.00
\$ 132,000.00	50%	\$ 66,000.00
\$ 4,489.00	50%	\$ 2,244.50
\$ 11,136.00	50%	\$ 5,568.00
\$ 244.00	50%	\$ 122.00
\$ 1,686.00	50%	\$ 843.00
\$ 27,136.00	50%	\$ 13,568.00
\$ 703.00	50%	\$ 351.50
\$ 742.00	50%	\$ 371.00
\$ 252.00	50%	\$ 126.00
\$ 116.00	50%	\$ 58.00
\$ 150,636.00	50%	\$ 75,318.00
\$ 176,793.00	50%	\$ 88,396.50
\$ 240,000.00	50%	\$ 120,000.00
\$ 375,000.00	50%	\$ 187,500.00
\$ 1,040.00	50%	\$ 520.00
\$ 208.00	50%	\$ 104.00
\$ 448,862.00	50%	\$ 224,431.00
\$ 624.00	50%	\$ 312.00
\$ 624.00	50%	\$ 312.00
\$ 624.00	50%	\$ 312.00
\$ 375.00	50%	\$ 187.50
\$ 270.00	50%	\$ 135.00
\$ 9,244.00	50%	\$ 4,622.00
\$ 202.00	50%	\$ 101.00
\$ 1,099,338.00	50%	\$ 549,669.00
\$ 199,680.00	50%	\$ 99,840.00
\$ 199,680.00	50%	\$ 99,840.00
\$ 9,830.00	50%	\$ 4,915.00
\$ 5,195.00	50%	\$ 2,597.50
\$ 845,645.00	50%	\$ 422,822.50
\$ 26,416.00	50%	\$ 13,208.00
\$ 3,622.00	50%	\$ 1,811.00
\$ 3,803.00	50%	\$ 1,901.50
\$ 3,984.00	50%	\$ 1,992.00
\$ 4,165.00	50%	\$ 2,082.50

\$ 4,346.00	50%	\$ 2,173.00
\$ 4,527.00	50%	\$ 2,263.50
\$ 4,708.00	50%	\$ 2,354.00
\$ 4,889.00	50%	\$ 2,444.50
\$ 4,576.00	50%	\$ 2,288.00
\$ 4,400.00	50%	\$ 2,200.00
\$ 1,300.00	50%	\$ 650.00
\$ 1,500.00	50%	\$ 750.00
\$ 2,860.00	50%	\$ 1,430.00
\$ 2,900.00	50%	\$ 1,450.00
\$ 7,280.00	50%	\$ 3,640.00
\$ 104.00	50%	\$ 52.00
\$ 16,640.00	50%	\$ 8,320.00
\$ 200.00	50%	\$ 100.00
\$ 9,458.00	50%	\$ 4,729.00
\$ 104.00	50%	\$ 52.00
\$ 22,545.00	50%	\$ 11,272.50
\$ 52.00	50%	\$ 26.00
\$ 39,040.00	50%	\$ 19,520.00
\$ 49,710.00	50%	\$ 24,855.00
\$ 46,948.00	50%	\$ 23,474.00
\$ 122.00	50%	\$ 61.00
\$ 90.00	50%	\$ 45.00
\$ 235.44	50%	\$ 117.72
\$ 912.00	50%	\$ 456.00
\$ 21,021.00	50%	\$ 10,510.50

Part No

NETWOR

CENTRALIZED

3HE14159AA

NSP RHEL VM

3HE14513AA

R21 & R20

NETWORK

BASE PRODUCT

3HE16252BA

3HE16252AA

LICENSE POINT

3HE16254AA

3HE16253AA

3HE16253AA

3HE16255AA

3HE11815GA

3HE11815FA

NETWORK

3HE16007AA

3HE11811DA

SUBSCRIBER LICENSE

3HE11812DA

3HE11813DA

3HE11814DA

NETWORK

BASE PRODUCT

3HE16001AA

3HE16003AA

3HE16004AA

3HE16002AA

3HE16005AA

RESOURCE

3HE16012AA

3HE16013AA

3HE16014AA

3HE16015AA

3HE16016AA

3HE16017AA

3HE16018AA

3HE16019AA

3HE16020AA

3HE16256AA

3HE16258AA

NETWORK P

3HE16010AA

3HE16011AA

LABS

3HE16259AA

3HE16260AA

3HE16261AA

R20, & R2

NETWORK F

NETWORK F

BASE PRODU

3KC73705AAAA

3KC73716AAAA

3KC73725AAAA

3KC73785AAAA

LICENSE POIN

3KC73640AAAA

3KC73641AAAA

NSP NFM-T EN

3KC73611AAAA

NSP NFM-T 2 (

3KC73612AAAA

NETWORK

BASE PRODU

3KC76635AAAA

3KC76651AAAA

LICENSE POIN

3KC76617AAAA

WAVEPLAN

BASE PRODU

3KC95008AAAA

3KC95014AAAA

3KC92711AAAA

3KC92712AAAA

3KC92713AAAA

3KC92720AAAA

3KC92725AAAA

3KC92727AAAA

3KC92728AAAA

LICENSE POIN

3KC95007AAAA

3KC79654AAAA

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3KC79656AAAA

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3KC79670AAAA

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3KC79767AAAA

3KC79775AAAA

3KC79776AAAA

3KC79777AAAA

3KC79778AAAA

3KC79779AAAA

3KC79780AAAA

3KC79781AAAA

3KC95005AAAA

3KC95006AAAA

NETWORK**BASE PRODU**

3HE11799EA

3HE11800EA
3HE11800EC
LICENSE POIN
3HE11801DA
3HE11802DA
3HE11803DA
3HE11802DC
LICENSE POIN
3HE11801DA
3HE11802DA
3HE11803DA
3HE11802DC
LICENSE POIN
3HE11805DA
3HE11803DA
3HE11805DC
ANALYTICS
3HE11810EA
3HE11811DA
AA RESIDENTIA
3HE11812DA
AA MOBILE SUE
3HE11813DA
AA BUSINESS S
3HE11814DA
EXTENDED NE
3HE11815EA
NSD-NRC M
NETWORK
BASE PRODU
3HE09985EA
3HE14509EA
3HE14509EC
ROUTING LIC
3HE12275DA
3HE14510AA
3HE14510AC
3HE12276DA
UPGRADE NFI
3HE14511AA
3HE14512AA
NETWORK
FEATURES
3HE14372EA

3HE14373EA
3HE14374EA
3HE14376EA
LICENSE POIN
3HE12275DA
3HE12276DA
NETWORK
BASE PRODU
3HE09997EA
ROUTING LIC
3HE12275DA
3HE12276DA
TRANSPORT L
3KC76617AAAA
NFM-P LAB LI
3HE13711AA
3HE13711BA
NSD-NRC LAB
3HE13712AA
3HE13712BA
NETWORK F
NETWORK F
BASE PRODU
3KC73669AAAA
LICENSE POIN
3KC73640AAAA
3KC73641AAAA
NSP NFM-T EM
3KC73611AAAA
NSP NFM-T 2 C
3KC73612AAAA
HARDWARE
1AK36000AAAM
1AK36000AAAN
1AK38000AAAN
NETWORK
BASE PRODU
3KC76625AAAA
LICENSE POIN
3KC76617AAAA
R18

NETWORK**LICENSE POINT**

3HE11801DA

3HE11802DA

3HE11803DA

3HE11802DC

LICENSE POINT

3HE11805DA

3HE11803DA

3HE11805DC

ANALYTICS

3HE11811DA

AA RESIDENTIAL

3HE11812DA

AA MOBILE SERVICE

3HE11813DA

AA BUSINESS SERVICE

3HE11814DA

NSD-NRC M**NETWORK****ROUTING LICENSE**

3HE12275DA

3HE14510AA

3HE14510AC

3HE12276DA

UPGRADE NETWORK

3HE14511AA

3HE14512AA

NETWORK**LICENSE POINT**

3HE12275DA

3HE12276DA

NETWORK**ROUTING LICENSE**

3HE12275DA

3HE12276DA

TRANSPORT LICENSE

3KC76617AAAA

NFM-P LAB I

3HE13711AA

3HE13711BA

NSD-NRC LAB

3HE13712AA

3HE13712BA

NETWORK F**NETWORK F****BASE PRODU**

3KC73639AAAA

3KC73610AAAA

LICENSE POIN

3KC73608AAAA

3KC73609AAAA

3KC73640AAAA

3KC73641AAAA

3KC73787AAAA

3KC73807AAAA

NSP NFM-T EM

3KC73611AAAA

NSP NFM-T 2 (

3KC73612AAAA

HARDWARE

1AK36000AAAM

1AK36000AAAN

1AK38000AAAN

NETWORK**BASE PRODU**

3KC76616AAAA

3KC76608AAAA

LICENSE POIN

3KC76617AAAA

3KC76612AAAA

3KC76613AAAA

NSP Applian

3HE17440AA

3HE15892GA

3HE15892GB

3HE15893GA

3HE15893GB

3HE15895AA

3HE16086AA

3HE15892FA

3HE15892FB

3HE15893FA

3HE15893FB

3HE15895AA

3HE16086AA

VSAP 19

Live Fixed Li

Topology (U

3HE11724TA

3HE12102TA

Virtual Routi

3HE11725TC

3HE12101TA

VSAP 18

Live Fixed Li

Topology (U

3HE11724TA

3HE12102TA

Virtual Routi

3HE11725TC

3HE12101TA



Network Management

Description

K SERVICES PLATFORM

) LICENSE MANAGER (CLM)

CENTRALIZED LICENSE MANAGER (CLM)

NSP RHEL QCOW2

0

SERVICES PLATFORM - BASE & LICENSE POINTS

CTS

NSP 21 PLATFORM BASE

NSP 20 PLATFORM BASE

ITS (LP) & EXTENDED NE SW SUPPORT

NSP LICENSE POINT

NSP PRIVATE WIRELESS LICENSE POINT

NSP MOBILE NETWORKS LICENSE POINT

NSP HIGH AVAILABILITY FP

NSP 21 EXTENDED NE S/W SUPPORT

NSP 20 EXTENDED NE S/W SUPPORT

OPERATIONS SUITE - ANALYTICS

NSP NETWORK OPERATIONS ANALYTICS FP

NSP AUXILIARY DATABASE 1 TB

CENSES

NSP 10K AA RESIDENTIAL SUBS

NSP 10K AA MOBILE SUBS

NSP 500 AA BUSINESS SUBS

OPERATIONS SUITE

CTS

NSP CLASSIC MANAGEMENT FP

NSP NETWORK INFRASTRUCTURE MANAGEMENT FP

NSP SERVICE ACTIVATION + CONFIG. FP

NSP PLUGGABLE NETWORK ADAPTATION FP

NSP SERVICE ASSURANCE FP

CONTROL SUITE

NSP CONTROL + VISUALIZATION STARTER FP
--

NSP PATH CONTROL + OPTIMIZATION FP

NSP ENHANCED OPTIMIZATION FP

NSP SIMULATION FP

NSP IP CONTROL CLASS 1 NODE

NSP IP CONTROL CLASS 2 NODE

NSP IP CONTROL CLASS 3 NODE

NSP IP CONTROL CLASS 4 NODE

NSP MULTILAYER DISC. + VISUALIZATION FP

NSP MULTILAYER CONTROL COORDINATION FP
--

NSP MULTILAYER CROSS DOMAIN LINK

PROGRAMMING SUITE

NSP INTENT BASED NETWORKING FRAMEWORK FP
--

NSP WORKFLOW AUTOMATION ENGINE FP

NSP OPS + PROGRAMMING LAB - STANDALONE
--

NSP OPS + PROGRAMMING LAB - WITH HA

NSP RESOURCE CONTROL LAB

1

FUNCTIONS MANAGER - TRANSPORT (NFM-T) & NETWORK R

FUNCTIONS MANAGER - TRANSPORT (NFM-T)

CTS

ESWL NFM-T20 APP PLUS EMBEDDED OS BASE LIC
--

ESWL NFM-T 20 APPLICATION ONLY BASE LIC

ESWL NTSM BASE LICENSE

ESWL-NFM-T 21 APPLICATION ONLY BASE LIC

ITS

NFM-T STANDARD LP

NFM-T HIGH AVAILABILITY LP

ENHANCED DB 4VCPU

NFM-T ENHANCED DB 4VCPU

CPU EMBEDDED OS ENHANCEMENT

NFM-T 2 CPU EMBEDDED OS ENHANCEMENT

RESOURCE CONTROLLER - TRANSPORT - (NRC-T)

CTS

ESWL NRC-T 20 STANDARD BASE

ESWL-NRC-T 21 STANDARD BASE

ITS

NRC STANDARD TRANSPORT LP

INNER - WAVESUITE OPTIMIZER - (WSO)

CTS

ESWL WSO 20 STANDARD BASE

ESWL-WSO 21 STANDARD BASE

ESWL-WP ON SERVER UP TO 20 USERS RTU

ESWL-WAVEPLANNER STANDARD TRANSPORT LP

WAVEPLANNER - TRANSPORT SRS (NAR ONLY)

ESWL-WAVEPLANNER ON PC NAMED RTU

WAVEPLANNER TRANSPORT SRS

ESWL-WP ON SERVER UP TO 20 USERS RTU

ESWL-WAVEPLANNER ON PC NAMED RTU

ITS

ESWL WSO STANDARD TRANSPORT LP

ESWP WS SE INFRASTRUCTURE SOFTWARE

ESWL-WS SE SVC UTIL RPT 1G VC

ESWL-WS SE SVC UTIL RPT 10G VC

ESWL-WS SE SVC UTIL RPT 100G VC

ESWL-WS SE SVC AVAIL RPT 1G VC

ESWL-WS SE SVC AVAIL RPT 10G VC

ESWL-WS SE SVC AVAIL RPT 100G VC

ESWL-WS SE SVC DASHBOARD 1G VC

ESWL-WS SE SVC DASHBOARD 10G VC

ESWL-WS SE SVC DASHBOARD 100G VC

ESWL-WSSE STANDARD 25 SEU PY

ESWL-WSSE STANDARD 100 SEU PY

ESWL-WSSE STANDARD 250 SEU PY

ESWL-WSSE STANDARD 500 SEU PY

ESWL-WSSE STANDARD 1000 SEU PY

ESWL-WSSE STANDARD UNL SEU PY

ESWL-WSSE L1 SVC AUTOMATE 25 SEU PY

ESWL-WSSE L1 SVC AUTOMATE 100 SEU PY

ESWL-WSSE L1 SVC AUTOMATE 250 SEU PY

ESWL-WSSE L1 SVC AUTOMATE 500 SEU PY

ESWL-WSSE L1 SVC AUTOMATE 1000 SEU PY

ESWL-WSSE L1 SVC AUTOMATE UNL SEU PY

ESWL-WSSE STANDARD 2500 SEU PY

ESWL-WSSE L1 SVC AUTOMATE 2500 SEU PY

ESWL-WSHA VISUALISATION 50 PEU PY

ESWL-WSHA VISUALISATION 1000 PEU PY

ESWL-WSHA VISUALISATION 2000 PEU PY

ESWL-WSHA VISUALISATION 5000 PEU PY

ESWL-WSHA VISUALISATION 10000 PEU PY

ESWL-WSHA VISUALISATION 20000 PEU PY

ESWL-WSHA VISUALISATION UNL PEU PY

ESWL-WSO - TRANSPORT - SRS

WSO - TRANSPORT SRS (NAR ONLY)

FUNCTIONS MANAGER - PACKET (NFM-P)

CTS

NSP 19: NFM-P STANDARD BASE

NSP 19: NFM-P PREMIUM BASE

NSP 19: NFM-P CONVERSION STD - PREM BASE

ITS (LP)

NSP: NFM-P STANDARD LP

NSP: NFM-P PREMIUM LP

NSP: NFM-P HA / DR LP

NSP: NFM-P LP CONV. STD. TO PREMIUM

ITS (LP)

NSP: NFM-P STANDARD LP

NSP: NFM-P PREMIUM LP

NSP: NFM-P HA / DR LP

NSP: NFM-P LP CONV. STD. TO PREMIUM

ITS (LP) LTE WIRELESS

NSP: NFM-P WIRELESS PREMIUM LTE LP

NSP: NFM-P HA / DR LP

NSP: NFM-P WIRELESS STD-PREM LTE LP CONV

NSP 19: NFM-P AA ANALYTICS BASE

NSP: NFM-P AUXILARY DATABASE 1 TB

L SUBSCRIBER LICENSES

NSP: NFM-P 10K AA RESIDENTIAL SUBS

3 SUBSCRIBER LICENSES

NSP: NFM-P 10K AA MOBILE SUBS

UBSCRIBER LICENSES

NSP: NFM-P 500 AA BUSINESS SUBS

3 S/W SUPPORT

NSP 19: NFM-P EXTENDED NE S/W SUPPORT

MODULES

SERVICES DIRECTOR - (NSD)

CTS

NSP 19: NSD STANDARD BASE

NSP 19: NSD PREMIUM BASE

NSP 19: NSD CONVERSION STD - PREM BASE

ENSE POINTS (LP)

NSP: NSD-NRC STANDARD ROUTING LP

NSP: NSD-NRC PREMIUM ROUTING LP

NSP: NSD-NRC ROUTING LP CONV STD TO PREM

NSP: NSD-NRC HA / DR ROUTING LP

M-P LICENSE POINTS TO NSD-NRC ROUTING LICENSE POINTS (LP)

NSP: NFM-P STD LP CONV TO NSD-NRC RTG LP

NSP NFM-P PREM LP CONV TO NSD-NRC RTG LP

RESOURCE CONTROLLER - PACKET - (NRC-P)

NSP 19: NRC-P SIMULATION

NSP 19: NRC-P PATH CONTROL

NSP 19: NRC-P OPTIMIZATION

NSP 19: NRC-P OPENFLOW CONTROL

ITS

NSP: NSD-NRC STANDARD ROUTING LP

NSP: NSD-NRC HA / DR ROUTING LP

RESOURCE CONTROLLER - X - (NRC-X)

CTS

NSP 19: NRC-X STANDARD BASE

SENSE POINTS (LP)

NSP: NSD-NRC STANDARD ROUTING LP

NSP: NSD-NRC HA / DR ROUTING LP

LICENSE POINTS

NRC STANDARD TRANSPORT LP

LICENSE

NSP: NFM-P LAB LIC NO HA / DR

NSP: NFM-P LAB LIC HA / DR

LICENSE

NSP: NSD-NRC LAB LIC NO HA / DR

NSP: NSD-NRC LAB LIC WITH HA / DR

FUNCTIONS MANAGER - TRANSPORT (NFM-T) & NETWORK R

FUNCTIONS MANAGER - TRANSPORT (NFM-T)

CTS

ESWL NFM-T 19 STANDARD BASE

ITS

NFM-T STANDARD LP

NFM-T HIGH AVAILABILITY LP

ENHANCED DB 4VCPU

NFM-T ENHANCED DB 4VCPU

CPU EMBEDDED OS ENHANCEMENT

NFM-T 2 CPU EMBEDDED OS ENHANCEMENT

DL360 GEN10 1CPU 8 CORE

DL360 GEN 10 2CPU 16 CORE

DL380 GEN 10 2CPU 40 CORE

RESOURCE CONTROLLER - TRANSPORT - (NRC-T)

CTS

ESWL NRC-T 19 STANDARD BASE

ITS

NRC STANDARD TRANSPORT LP

FUNCTIONS MANAGER - PACKET (NFM-P)

ITS (LP)

NSP: NFM-P STANDARD LP

NSP: NFM-P PREMIUM LP

NSP: NFM-P HA / DR LP

NSP: NFM-P LP CONV. STD. TO PREMIUM

ITS (LP) LTE WIRELESS

NSP: NFM-P WIRELESS PREMIUM LTE LP

NSP: NFM-P HA / DR LP

NSP: NFM-P WIRELESS STD-PREM LTE LP CONV

NSP: NFM-P AUXILARY DATABASE 1 TB

L SUBSCRIBER LICENSES

NSP: NFM-P 10K AA RESIDENTIAL SUBS

3 SUBSCRIBER LICENSES

NSP: NFM-P 10K AA MOBILE SUBS

UBSCRIBER LICENSES

NSP: NFM-P 500 AA BUSINESS SUBS

MODULES

SERVICES DIRECTOR - (NSD)

ENSE POINTS (LP)

NSP: NSD-NRC STANDARD ROUTING LP

NSP: NSD-NRC PREMIUM ROUTING LP

NSP: NSD-NRC ROUTING LP CONV STD TO PREM

NSP: NSD-NRC HA / DR ROUTING LP

M-P LICENSE POINTS TO NSD-NRC ROUTING LICENSE POINTS (LP)

NSP: NFM-P STD LP CONV TO NSD-NRC RTG LP

NSP NFM-P PREM LP CONV TO NSD-NRC RTG LP

RESOURCE CONTROLLER - PACKET - (NRC-P)

ITS

NSP: NSD-NRC STANDARD ROUTING LP

NSP: NSD-NRC HA / DR ROUTING LP

RESOURCE CONTROLLER - X - (NRC-X)

ENSE POINTS (LP)

NSP: NSD-NRC STANDARD ROUTING LP

NSP: NSD-NRC HA / DR ROUTING LP

_LICENSE POINTS

NRC STANDARD TRANSPORT LP

_LICENSE

NSP: NFM-P LAB LIC NO HA / DR

NSP: NFM-P LAB LIC HA / DR

LICENSE

NSP: NSD-NRC LAB LIC NO HA / DR

NSP: NSD-NRC LAB LIC WITH HA / DR

FUNCTIONS MANAGER - TRANSPORT (NFM-T) & NETWORK R

FUNCTIONS MANAGER - TRANSPORT (NFM-T)

CTS

NFM-T 18 STANDARD BASE

NSP 17: NFM-T STANDARD BASE

ITS

NSP 17: NFM-T STANDARD LP

NSP 17: NFM-T HIGH AVAILABILITY LP

NFM-T STANDARD LP

NFM-T HIGH AVAILABILITY LP

ESWL-OTDR BASE LICENSE

ESWL-NFM-T HA REVERSE PROXY

ENHANCED DB 4VCPU

NFM-T ENHANCED DB 4VCPU

CPU EMBEDDED OS ENHANCEMENT

NFM-T 2 CPU EMBEDDED OS ENHANCEMENT

DL360 GEN10 1CPU 8 CORE

DL360 GEN 10 2CPU 16 CORE

DL380 GEN 10 2CPU 40 CORE

RESOURCE CONTROLLER - TRANSPORT - (NRC-T)

CTS

NRC-T 18 STANDARD BASE

NSP 17: NRC-T STANDARD BASE

ITS

NRC STANDARD TRANSPORT LP

NSP 17: NSD-NRC STANDARD TRANSPORT LP

NSP 17: NSD-NRC HIGH AVAIL TRANSPORT LP

ce

NSP SERVER WITH RHEL 7.X

NSP 21.6 APPLIANCE GREENFIELD SIMPLEX

NSP 21.6 APPLIANCE GREENFIELD DR

NSP 21.6 APPLIANCE BROWNFIELD SIMPLEX

NSP 21.6 APPLIANCE BROWNFIELD DR

NSP APPLIANCE LP

NSP APPLIANCE HA / DR LP

NSP 20 APPLIANCE GREENFIELD SIMPLEX

NSP 20 APPLIANCE GREENFIELD DR

NSP 20 APPLIANCE BROWNFIELD SIMPLEX

NSP 20 APPLIANCE BROWNFIELD DR

NSP APPLIANCE LP

NSP APPLIANCE HA / DR LP

censes

nderlay and SND Controller) Licenses

VSAP NETWORK ELEMENT MGNT LICENSE

VSAP HA / DR NE MGNT LIC

ng and Switching License - NOTE - Upgrade licenses are

VSAP VIRTUAL RT AND SWITCHING LIC

VSAP VIRTUAL RT AND SWITCHING NSG LIC

censes

nderlay and SND Controller) Licenses

VSAP NETWORK ELEMENT MGNT LICENSE

VSAP HA / DR NE MGNT LIC

ng and Switching License - NOTE - Upgrade licenses are

VSAP VIRTUAL RT AND SWITCHING LIC

VSAP VIRTUAL RT AND SWITCHING NSG LIC

END OF Network Management

MPL (GLP) \$USD	Discount	Unit Price
		No Charge
\$ 1,500.00	50%	\$ 750.00
\$ 80,000.00	50%	\$ 40,000.00
\$ 80,000.00	50%	\$ 40,000.00
\$ 60.00	50%	\$ 30.00
\$ 60.00	50%	\$ 30.00
\$ 60.00	50%	\$ 30.00
\$ 25.00	50%	\$ 12.50
\$ 10,000.00	50%	\$ 5,000.00
\$ 10,000.00	50%	\$ 5,000.00
\$ 25.00	50%	\$ 12.50
\$ 13,000.00	50%	\$ 6,500.00
\$ 10,000.00	50%	\$ 5,000.00
\$ 10,000.00	50%	\$ 5,000.00
\$ 20,000.00	50%	\$ 10,000.00
\$ 25.00	50%	\$ 12.50
\$ 25.00	50%	\$ 12.50
\$ 25.00	50%	\$ 12.50
\$ 25.00	50%	\$ 12.50
\$ 25.00	50%	\$ 12.50

\$ 100,000.00	50%	\$ 50,000.00
\$ 100,000.00	50%	\$ 50,000.00
\$ 100,000.00	50%	\$ 50,000.00
\$ 100,000.00	50%	\$ 50,000.00
\$ 3,000.00	50%	\$ 1,500.00
\$ 1,500.00	50%	\$ 750.00
\$ 500.00	50%	\$ 250.00
\$ 25.00	50%	\$ 12.50
\$ 100,000.00	50%	\$ 50,000.00
\$ 100,000.00	50%	\$ 50,000.00
\$ 75.00	50%	\$ 37.50

\$ 25.00	50%	\$ 12.50
\$ 25.00	50%	\$ 12.50

\$ 25,000.00	50%	\$ 12,500.00
\$ 50,000.00	50%	\$ 25,000.00
\$ 50,000.00	50%	\$ 25,000.00

ESOURCE CONTROLLER - TRANSPORT - (NRC-T)

\$ 77,000.00	50%	\$ 38,500.00
\$ 77,000.00	50%	\$ 38,500.00
\$ 23,100.00	50%	\$ 11,550.00
\$ 77,000.00	50%	\$ 38,500.00

\$ 110.00	50%	\$ 55.00
\$ 22.00	50%	\$ 11.00

\$ 43,315.00	50%	\$ 21,657.50
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\$ 4,745.00	50%	\$ 2,372.50
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\$ 399,980.00	50%	\$ 199,990.00
\$ 399,980.00	50%	\$ 199,990.00

\$ 110.00	50%	\$ 55.00
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\$	300,000.00	50%	\$ 150,000.00
\$	300,000.00	50%	\$ 150,000.00
\$	358,400.00	50%	\$ 179,200.00
\$	2.00	50%	\$ 1.00
\$	1.00	50%	\$ 0.50
\$	12,800.00	50%	\$ 6,400.00
\$	1.00	50%	\$ 0.50
\$	358,400.00	50%	\$ 179,200.00
\$	12,800.00	50%	\$ 6,400.00

\$	200.00	50%	\$ 100.00
\$	14,400.00	50%	\$ 7,200.00
\$	34.00	50%	\$ 17.00
\$	114.00	50%	\$ 57.00
\$	342.00	50%	\$ 171.00
\$	34.00	50%	\$ 17.00
\$	114.00	50%	\$ 57.00
\$	342.00	50%	\$ 171.00
\$	23.00	50%	\$ 11.50
\$	76.00	50%	\$ 38.00
\$	228.00	50%	\$ 114.00
\$	102,400.00	50%	\$ 51,200.00
\$	358,400.00	50%	\$ 179,200.00
\$	793,600.00	50%	\$ 396,800.00
\$	1,382,400.00	50%	\$ 691,200.00
\$	2,432,000.00	50%	\$ 1,216,000.00
\$	4,147,200.00	50%	\$ 2,073,600.00
\$	76,800.00	50%	\$ 38,400.00
\$	230,400.00	50%	\$ 115,200.00
\$	537,600.00	50%	\$ 268,800.00
\$	870,400.00	50%	\$ 435,200.00
\$	1,536,000.00	50%	\$ 768,000.00
\$	2,764,800.00	50%	\$ 1,382,400.00
\$	5,529,600.00	50%	\$ 2,764,800.00
\$	3,456,000.00	50%	\$ 1,728,000.00
\$	25,600.00	50%	\$ 12,800.00
\$	243,200.00	50%	\$ 121,600.00
\$	409,600.00	50%	\$ 204,800.00
\$	550,400.00	50%	\$ 275,200.00
\$	844,800.00	50%	\$ 422,400.00
\$	1,331,200.00	50%	\$ 665,600.00
\$	1,804,800.00	50%	\$ 902,400.00
\$	1.10	50%	\$ 0.55
\$	1.00	50%	\$ 0.50

\$	80,000.00	50%	\$ 40,000.00
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\$	160,000.00	50%	\$	80,000.00
\$	80,000.00	50%	\$	40,000.00

\$	110.00	50%	\$	55.00
\$	165.00	50%	\$	82.50
\$	20.00	50%	\$	10.00
\$	55.00	50%	\$	27.50

\$	110.00	50%	\$	55.00
\$	165.00	50%	\$	82.50
\$	20.00	50%	\$	10.00
\$	55.00	50%	\$	27.50

\$	165.00	50%	\$	82.50
\$	20.00	50%	\$	10.00
\$	55.00	50%	\$	27.50

\$	145,000.00	50%	\$	72,500.00
\$	13,000.00	50%	\$	6,500.00

\$	10,000.00	50%	\$	5,000.00
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\$	10,000.00	50%	\$	5,000.00
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\$	20,000.00	50%	\$	10,000.00
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\$	10,000.00	50%	\$	5,000.00
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\$	80,000.00	50%	\$	40,000.00
\$	160,000.00	50%	\$	80,000.00
\$	80,000.00	50%	\$	40,000.00

\$	135.00	50%	\$	67.50
\$	200.00	50%	\$	100.00
\$	65.00	50%	\$	32.50
\$	20.00	50%	\$	10.00

\$	25.00	50%	\$	12.50
\$	35.00	50%	\$	17.50

\$	50,000.00	50%	\$	25,000.00
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\$	200,000.00	50%	\$	100,000.00
\$	50,000.00	50%	\$	25,000.00
\$	50,000.00	50%	\$	25,000.00

\$	135.00	50%	\$	67.50
\$	20.00	50%	\$	10.00

\$	400,000.00	50%	\$	200,000.00
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\$	135.00	50%	\$	67.50
\$	20.00	50%	\$	10.00

\$	110.00	50%	\$	55.00
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\$	25,000.00	50%	\$	12,500.00
\$	50,000.00	50%	\$	25,000.00

\$	25,000.00	50%	\$	12,500.00
\$	50,000.00	50%	\$	25,000.00

ESOURCE CONTROLLER - TRANSPORT - (NRC-T)

\$	77,000.00	50%	\$	38,500.00
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\$	110.00	50%	\$	55.00
\$	22.00	50%	\$	11.00

\$	43,315.00	50%	\$	21,657.50
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\$	4,745.00	50%	\$	2,372.50
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\$	11,319.00	50%	\$	5,659.50
\$	18,397.00	50%	\$	9,198.50
\$	41,084.00	50%	\$	20,542.00

\$	399,980.00	50%	\$	199,990.00
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\$	110.00	50%	\$	55.00
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\$	110.00	50%	\$ 55.00
\$	165.00	50%	\$ 82.50
\$	20.00	50%	\$ 10.00
\$	55.00	50%	\$ 27.50
\$	165.00	50%	\$ 82.50
\$	20.00	50%	\$ 10.00
\$	55.00	50%	\$ 27.50
\$	13,000.00	50%	\$ 6,500.00
\$	10,000.00	50%	\$ 5,000.00
\$	10,000.00	50%	\$ 5,000.00
\$	20,000.00	50%	\$ 10,000.00
\$	135.00	50%	\$ 67.50
\$	200.00	50%	\$ 100.00
\$	65.00	50%	\$ 32.50
\$	20.00	50%	\$ 10.00
\$	25.00	50%	\$ 12.50
\$	35.00	50%	\$ 17.50
\$	135.00	50%	\$ 67.50
\$	20.00	50%	\$ 10.00
\$	135.00	50%	\$ 67.50
\$	20.00	50%	\$ 10.00
\$	110.00	50%	\$ 55.00
\$	25,000.00	50%	\$ 12,500.00
\$	50,000.00	50%	\$ 25,000.00

\$	25,000.00	50%	\$ 12,500.00
\$	50,000.00	50%	\$ 25,000.00

ESOURCE CONTROLLER - TRANSPORT - (NRC-T)

\$	77,000.00	50%	\$ 38,500.00
\$	77,000.00	50%	\$ 38,500.00

\$	106.01	50%	\$ 53.01
\$	21.20	50%	\$ 10.60
\$	110.00	50%	\$ 55.00
\$	22.00	50%	\$ 11.00
\$	23,100.00	50%	\$ 11,550.00
\$	11,000.00	50%	\$ 5,500.00

\$	43,315.00	50%	\$ 21,657.50
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\$	4,745.00	50%	\$ 2,372.50
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\$	11,319.00	50%	\$ 5,659.50
\$	18,397.00	50%	\$ 9,198.50
\$	41,084.00	50%	\$ 20,542.00

\$	399,980.00	50%	\$ 199,990.00
\$	371,035.00	50%	\$ 185,517.50

\$	110.00	50%	\$ 55.00
\$	110.00	50%	\$ 55.00
\$	22.00	50%	\$ 11.00

\$	16,346.00	50%	\$ 8,173.00
\$	233,410.00	50%	\$ 116,705.00
\$	317,200.00	50%	\$ 158,600.00
\$	90,610.00	50%	\$ 45,305.00
\$	133,200.00	50%	\$ 66,600.00
\$	110.00	50%	\$ 55.00
\$	25.00	50%	\$ 12.50
\$	233,410.00	50%	\$ 116,705.00
\$	317,200.00	50%	\$ 158,600.00
\$	90,610.00	50%	\$ 45,305.00
\$	133,200.00	50%	\$ 66,600.00
\$	110.00	50%	\$ 55.00
\$	25.00	50%	\$ 12.50

\$ 1,028.00	50%	\$ 514.00
\$ 190.00	50%	\$ 95.00
not required for these items.		
\$ 115.00	50%	\$ 57.50
\$ 110.00	50%	\$ 55.00
\$ 1,028.00	50%	\$ 514.00
\$ 190.00	50%	\$ 95.00
not required for these items.		
\$ 115.00	50%	\$ 57.50
\$ 110.00	50%	\$ 55.00



IP Router - IPR SERVICES	
Part No	Description
INSTALLATION AND IMPLEMENTATION	
301091625	Program Management - Remote
301071247	Technical Project Manager
301036679	Site Survey - OnSite
301036679	Engineering - Remote
301036786	Installation - OnSite (T&L not included)
301071387	Site Materials
RESIDENT ENGINEER	
3HE06254AA	NOC Engineer Support (ONSITE - 1 Month)
3HE09107AA	NOC Engineer Support (ONSITE - 1 Year)
3HE06627AA	Architecture Engineer Support (ONSITE - 1 Month)
3HE09108AA	Architecture Engineer Support (ONSITE - 1 Year)
3HE06628AA	NSP Engineer Support (ONSITE - 1 Month)
3HE09109AA	NSP Engineer Support (ONSITE - 1 Year)
FIELD CORRECTIVE MAINTENANCE	
3HE09054AA	Field Corrective Maintenance (FCM) 24x7x4HR
3HE09055AA	Field Corrective Maintenance (FCM) 8x5x4HR
3HE09056AA	Field Corrective Maintenance (FCM) 24x7xNBD
DESIGN & INTEGRATION SERVICES	
3HE06629AA	L2 wireline Design
3HE09367AA	L2 / L3 wireline / MWBH design
301094207	LTE Backhaul & Core Router Design and Integration
3HE06636AA	Network Design Consultation
3HE09043AA	Nuage Professional Services
3HE02934AA	NSP Integration - (Remote)
3HE09347AA	NSP Integration - (Onsite) - T&L not included
3HE06639AA	NSP SW Upgrade (Remote)
3HE04124AA	NSP SW Upgrade (Onsite) - T&L not included
3HE04256AA	NSP Operations Consulting
3HE06631AA	Network Integration 7x50 SR/ESS
3HE06632AA	Network Integration 7705 SAR
3HE07796AA	Network Integration 7210 SAS
3HE02941AA	Design & Integration - General IP Routing - 7750 SR, 7705 SAR, 7210 SAS
3HE07153AA	Network Integration 7750 SR, 7705 SAR, 7210 SAS - (Onsite 1 Week)

*** Notes:**

***Pricing Instructions:**

1. All hourly rates are based on a 40-hour work week and normal business hours.
2. Ordering codes are subject to change and will be determined when an official quote is provided.
3. Site Survey is limited to the United States, excluding Hawaii and Canada
4. Site Survey Assumptions: Pricing includes performing a basic site survey, which includes site visit, equipment rack, and power requirements.
5. Installation and Implementation Services pricing does not apply to states with prevailing wage laws.
6. Program Management and TPM performed remotely.
7. All services are subject to specific definitions, inclusions, exclusions, terms, etc. as defined in the service catalog.
8. Rates do not include travel and living expenses unless otherwise noted. T&L will be added as applicable.

9. On-site Installation hourly rate may require T&L depending on site location and distance
 10. All Design & Integration Services listed above are assumed to be performed remotely
 11. All Services pricing included by Nokia is subject to annual adjustment for inflation and

OPTICAL SERVICES	
Part No	Description
INSTALLATION AND IMPLEMENTATION	
301091633	Program Management - Remote
301071247	Technical Project Manager
300519295	Site Survey - OnSite
300519295	Engineering - Remote
300466612	Installation - OnSite (T&L not included)
3EF18786BGAA	Site Materials
RESIDENT ENGINEER	
300783339	Optical Resident Engineer - 1 Year
FIELD CORRECTIVE MAINTENANCE	
300865524	Field Corrective Maintenance (FCM) 24x7x4 hrs.
300865540	Field Corrective Maintenance (FCM) 24x7x NBD
INTEGRATION	
300472503	Optical Integration - OnSite
3HE02941AA	Optical Integration - T&L not included
300472503	Optical Integration - Pre-Staging Texas
301088191	Remote NFM-T Integration support

*** Notes:**

***Pricing Instructions:**

1. All hourly rates are based on a 40-hour work week and normal business hours.
2. Ordering codes are subject to change and will be determined when an official quote is provided.
3. Site Survey is limited to the United States, excluding Hawaii and Canada
4. Site Survey Assumptions: Pricing includes performing a basic site survey, which includes site visit, equipment inspection, and site preparation.
5. Installation and Implementation Services pricing does not apply to states with prevailing wage laws.
6. Program Management and TPM performed remotely.
7. All services are subject to specific definitions, inclusions, exclusions, terms, etc. as defined in the Nokia Service Catalog.
8. On-site rates include travel and living expenses unless otherwise noted. T&L will be added to on-site rates.
9. On-site Installation hourly rate may require T&L depending on site location and distance.
10. All Services pricing included by Nokia is subject to annual adjustment for inflation and

Metric	Price
per hour	\$ 225
per hour	\$ 225
per site	\$ 1,950
per hour	\$ 175
per hour	\$ 135
priced per specific site conditions	Custom
per year	\$ 51,300
per month	\$ 350,000
per year	\$ 51,300
per year	\$ 350,000
per month	\$ 51,300
per year	\$ 350,000

per network	Custom
per network	Custom
per network	Custom
per day	\$ 1,840
per day	\$ 1,840
per day	\$ 1,840
per day	\$ 1,840
per day	\$ 1,840
per hour	\$ 240
per hour	\$ 240
per hour	\$ 240
per hour	\$ 240
per hour	\$ 240
per hour	\$ 230
per hour	\$ 230
per hour	\$ 230
per hour	\$ 230
per week	\$ 16,500

provided by Nokia

includes verification of equipment bay location, peripheral equipment termination assignments, power type and terminating wages statutes. Pricing will be quoted based on individual State adherence to prevailing wage requirements

included in a Statement of Work that will accompany each price quote from Nokia. Included at time of final quoting.

e from an installation base; TBD once site information is provided.
 unless otherwise noted. If onsite support is required, T&L will be added at time of final quoting (i.e. on-site hour
 l will be tracked to the CPI Index.

Metric	Price
per hour	\$ 225
per hour	\$ 225
per site	\$ 1,950
per hour	\$ 175
per hour	\$ 135
priced per specific site conditions	Custom
per person	\$ 350,000
per network	Custom
per network	Custom
per week	\$ 16,500
per hour	\$ 220
per unit	\$ 651
per hour	\$ 240

provided by Nokia

s verification of equipment bay location, peripheral equipment termination assignments, power type and termir
 g wages statutes. Pricing will be quoted based on individual State adherence to prevailing wage requirements

ied in a Statement of Work that will accompany each price quote from Nokia.

led at time of final quoting.

e from an installation base; TBD once site information is provided.

l will be tracked to the CPI Index.

ation assignments, and cable running routes.

ly rate may require T&L depending on site location)

ation assignments, and cable running routes.



IP Routing Maintenance

Part No	Description	Metric
Pricing Calculation Instructions: 1 - RTS, RFR and RES-AE fees are paid annually 2 - % based RTS Gold, RFR and RES-AE Prices = % fees listed below x total sell price of all HW & meet or exceed the minimums listed below (% amount cannot be below the minimum). 3 - RTS Bronze price = RTS Gold Price x 90%		
REMOTE TECHNICAL SUPPORT		
301013231	Remote Technical Support Gold with NSP (7705 SAR, 7210 SAS, 210 WBX)	% of sell price (per year)
301013231	Remote Technical Support Gold with NSP (7750 SR, 7750 Sre, 7750 SRa, 7250 IXR)	% of sell price (per year)
301013231	Remote Technical Support Gold (VSR, Deepfield)	% of sell price (per year)
301013231	Remote Technical Support (minimum base price for network - 7705 SAR, 7210 SAS, 210 WBX)	per project
301013231	Remote Technical Support (minimum base price for network - 7750 SR, 7750 SRe, 7750 SRa, 7250 IXR)	per project
301013231	Remote Technical Support (minimum base price for network) Deepfield	per project
301013231	Remote Technical Support (minimum base price for network NSP platform stand alone)	per project
301028866	TE TS Service C (LE-C) ION IPR	per project
HARDWARE RETRUN FOR REPAIR RES-RFR)		
Pricing is applicable after product warranty expires (typically after year 1)		
301048468	RES-RFR - all HW products	% of sell price (per year)
301048468	RES-RFR (minimum base price for network) 7705 SAR, 7210 SAS, 7750 SR, 7750 SRe, 7750 SRa, 7250 IXR	per project
HARDWARE REPAIR & REPLACEMENT - ADVANCED EXCHANGE (RES-AE)		
301048450	RES-AE-NBD - all HW products Year 1	% of sell price (per year)
301048450	RES-AE-NBD - all HW products Year 2	% of sell price (per year)
301048476	RES-AE-4HR - all HW products Year 1	per unit/per year
301048476	RES-AE-4HR - all HW products Year 2	per unit/per year
301048450	RES-AE (minimum Year 1 price for base network) 7705 SAR, 7210 SAS, 7750 SR, 7750 SRe, 7750 SRa, 7250 IXR	per project
301048450	RES-AE (minimum Year 2 price for base network) 7705 SAR, 7210 SAS, 7750 SR, 7750 SRe, 7750 SRa, 7250 IXR	per project
301048450	RES-AE (minimum Year 1 price for base network) NSG	per project

301048450	RES-AE (minimum Year 2 price for base network) NSG	per project
SOFTWARE SUBSCRIPTION PLANS		
3HE01807AB	SRS Annual Fee - 7750 SR(x), 7210 SAS, 7250 IXR	% of sell price (per year)
3HE11172AA	SRS Annual Fee - VSR	% of sell price (per year)
3HE05610AB	SRS Annual Fee - 7705 SAR	% of sell price (per year)
3HE14107AA	SRS Annual Fee - DEEPFIELD	% of sell price (per year)
8DG43280AAAA	SRS Annual Fee - NFM-T	% of sell price (per year)
3HE10161AA	SRS Annual Fee - NSP	% of sell price (per year)
3HE10161CA	SRS Annual Fee - Routing - NSD-NRC	% of sell price (per year)
3HE10161EA	SRS Annual Fee - Wireless - NSD-NRC	% of sell price (per year)
3HE12103AA	SRS Annual Fee - VSAP	% of sell price (per year)
3HE13428AA	SRS Annual Fee - VNO	% of sell price (per year)

OPTICAL MAINTENANCE

Part No	Description	Metric
REMOTE TECHNICAL SUPPORT		
301048005	Remote Technical Support Gold - All Products	per unit/per year
301092730	ELTS OPTICS	per unit/per year
301092748	ELTS PLUS OPTICS	per unit/per year
REPAIR EXCHANGE SERVICES		
301048492	Repair and Exchange Service (all products) post warranty period	per unit/per year
301048484	Advanced Repair and Exchange Service Next Day (all products) - Year 1	per unit/per year
301048484	Advanced Repair and Exchange Service Next Day (all products) - Year 2+	per unit/per year
301048500	Advanced Repair and Exchange Service 4hr (all products)	per unit/per year
SOFTWARE RELEASE SUBSCRIPTION		
3KC69726AAAA	1830 PSS-4 SSP	per unit/per year
3KC69727AAAA	1830 PSS-8 SSP	per unit/per year
3KC69728AAAA	1830 PSS-16II/16 SSP	per unit/per year
3KC69729AAAA	1830 PSS-32 SSP	per unit/per year
3KC69731AAAA	1830 PSS-24X SSP	per unit/per year
8DG43280AAAA	NSP NFM-T	per unit/per year

109767749	Software Subscription Plan (all other products)	per unit/per year
3KC76611AAAA	NRC - TRANSPORT - SRS (NAR ONLY)	per unit/per year
3KC92713AAAA	WAVEPLANNER - TRANSPORT SRS (NAR ONLY)	per unit/per year
3KC95006AAAA	WSO - TRANSPORT SRS (NAR ONLY)	per unit/per year

*Pricing Instructions:

1 - Remote Technical Support Price = 5% of IBV (Installed Base Value) with a minimum fee of \$2,000

2 - Repair Exchange Services = % of IBV (Installed Base Value) with a network minimum of \$3,500 for R4R and \$6,500 for AES

3 - Nodal Fees must be paid annually

4 - RTS Bronze price = RTS Gold Price x 90%

5 - All hourly rates are based on a 40-hour work week

6 - Onsite rates do not include travel and living expenses

7 - Ordering codes are subject to change and will be determined when an official quote is provided by Nokia

8. All Services pricing included by Nokia is subject to annual adjustment for inflation and will be t

MSRP	Discount %	Unit Price
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SW including license fees. These % fees must

		Price per Year
5.0%	-	5.0%
7.5%	-	7.5%
custom quoted	-	custom quoted
\$ 5,833	40%	\$ 3,500
\$ 7,500	40%	\$ 4,500
\$ 10,667	40%	\$ 6,400
\$ 5,833	40%	\$ 3,500
Custom		
		Price per Year
5.0%	-	5.0%
\$ 6,250	40%	\$ 3,750
		Price per Year
4.0%	-	4.0%
7.5%	-	7.5%
Custom quoted based on geographic location	-	Custom quoted based on geographic location
Custom quoted based on geographic location	-	Custom quoted based on geographic location
\$ 5,833	40%	\$ 3,500
\$ 10,417	40%	\$ 6,250
\$ 917	40%	\$ 550

\$ 3,667	40%	\$ 2,200
		Price per Year
2.5%	-	2.5%
20.0%	-	20.0%
2.5%	-	2.5%
20.0%	-	20.0%
20.0%	-	20.0%
20.0%	-	20.0%
20.0%	-	20.0%
20.0%	-	20.0%
20.0%	-	20.0%
20.0%	-	20.0%
20.0%	-	20.0%

**NASPO Unit
Price ***

5% IBV
CUSTOM
CUSTOM

5% IBV
4% IBV
7.5% IBV
CUSTOM

5% IBV
5% IBV
5% IBV
5% IBV
5% IBV
20% NSP IBV

5% IBV
20% NRC IBV
20% WP IBV
20% WSO IBV

racked to the CPI Index.

Part No	Description	Spare	NASPO ValuePoint MSRP	NASPO ValuePoint Discount %
694 9000-006	Standard Rack, 7' tall, 19" wide	N	\$ 855.00	34%
1AD014120046	Seismic Rack, 7.0'	N	\$ 1,725.00	34%
690 1125-003	Rack Extension Kit - 19" rack	N	\$ 1,010.00	34%
3EM13317AB	Power Distribution Panel with Fe	N	\$ 1,050.00	34%
3EM13317AC	Power Distribution Panel with Re	N	\$ 1,250.00	34%
695 1001-007	Seismic Rack Screw Kit	N	\$ 50.00	34%
695 0905-003	Standard Rack, 7' tall, 23" wide	N	\$ 1,255.00	34%
694 8873-005	Adapters for 23", 2 RU (PDU tw	N	\$ 56.50	34%
3MU00079AB	9500 MPR Flex16WS 2 MSS	N	\$ 23,000.00	34%
1AD165490001	Kit, 1/2 13 hardware, FTTC5, C/	N	\$ 166.59	34%
3MU00128AA	Flex25 Pole Mount Kit	N	\$ 4,466.60	34%
1AD165480001	LIFT BOLTS 1/2 9412	N	\$ 241.80	34%
1AB404960001	DS1 Circuit Protection RH33250	N	\$ 1,400.00	34%
3CC52216AB	Fan Alarm Cable 15m	N	\$ 123.00	68%
3DB05594AA	AUX Cable for Housekeeping	N	\$ 87.00	68%
3EM24040AA	MPT HL Air Filter (Spare)	N	\$ 50.00	34%
3DB18236AB	AUX Housekeeping	Y	\$ 950.00	68%
3DB18735AA	2xOC3 Module	Y	\$ 1,879.00	68%
3EM09257AA	Fiber Management Panel	N	\$ 250.00	34%
3DB17021TFA	Wavence 20A MPI Secure uSD	N	\$ 5,000.00	68%
3EM24226AHA	FIPS Configuration Certificatio	N	\$ 1,910.00	68%
3EM23141AA	SFP Copper Cable, 0.5 M	N	\$ 200.00	68%
3EM23141AB	SFP Copper Cable, 1.0 M	N	\$ 210.00	68%
1AF15245AB	32 E1/T1 Protection Panel - RJ45	N	\$ 727.16	34%
3EM23110AA	8 DS1 Cable Assembly (D Open	N	\$ 140.00	34%
3DB76116AA	L6 GHz, 60 MHz Hot Standby F	N	\$ 2,950.00	68%
3DB76188AA	RF Diplexer Filter Xmt 5925-617	N	\$ 2,150.00	68%
3DB76189AA	RF Diplexer Filter Xmt 6175-642	N	\$ 2,150.00	68%
3DB76190AA	RF Diplexer Space Diversity Filt	N	\$ 1,500.00	68%
3DB76191AA	RF Diplexer Space Diversity Filt	N	\$ 1,500.00	68%
3EM23511AW	11 GHz Trans Kit A4' FDTransit	N	\$ 940.00	68%
3EM24123AL	Stacking Filter Add-on Xmt & Re	N	\$ 963.00	68%
3EM24123AM	Stacking Filter 6 GHz Freq Div V	N	\$ 5,470.00	68%
3EM24197AA	6 GHz WAVEGUIDE, STRAIG	N	\$ 350.00	68%
3EM24197AB	6 GHz WAVEGUIDE, STRAIG	N	\$ 690.00	68%
3EM24191AA	6 GHz E E BEND WAVEGUIDE	N	\$ 685.00	68%
3EM24191AB	6 GHz E E BEND WAVEGUIDE	N	\$ 690.00	68%
3EM24197AC	6 GHz WAVEGUIDE, STRAIG	N	\$ 925.00	68%
3EM24190AA	6 GHz E E H H BEND WAVEG	N	\$ 1,350.00	68%
3EM24190AB	6 GHz E E H H BEND WAVEG	N	\$ 1,270.00	68%
3EM24190AD	6 GHz E E H H BEND WAVEG	N	\$ 1,340.00	68%

Wavence MPT-HC / MPR-e INTEC

Part Number	Model	Frequency Band	Description	Size (ft)
10038135	SC3-W60AMPT	5925-7125	SC3-W60AMPT	3
10042012	SCX3-W60AMPT	5925-7125	SCX3-W60AMPT	3
10044144	SB4-W60DMPT	5925-7125	SB4-W60DMPT	4
10044445	SB4-W60D3MPT	5925-7125	SB4-W60D3MPT	4
10044581	SBX4-W60DMPT	5925-7125	SBX4-W60DMPT	4
10041047	SB6-W60CMPT	5925-7125	SB6-W60CMPT	6
10042451	SB6-W60C2MPT	5925-7125	SB6-W60C2MPT	6
10041951	SBX6-W60CMPT	5925-7125	SBX6-W60CMPT	6
10039091	SC2-W100BMPT	10000-11700	SC2-W100BMPT	2
10039144	SCX2-W100BMPT	10000-11700	SCX2-W100BMPT	2
10038136	SC3-W100AMPT	10700-11700	SC3-W100AMPT	3
10039907	SCX3-W100AMPT	10000-11700	SCX3-W100AMPT	3
10044145	SB4-W100DMPT	10000-11700	SB4-W100DMPT	4
10044601	SBX4-W100DMPT	10000-11700	SBX4-W100DMPT	4
10041049	SB6-W100CMPT	10000-11700	SB6-W100CMPT	6
10041952	SBX6-W100CMPT	10000-11700	SBX6-W100CMPT	6
10039150	SCX2-220BMPT	21200-23600	SCX2-220BMPT	2
10046209	SC3-W60BUBTR	5,925-7,125	Ant int UBT 3ft 6GHz SP	3
10046179	SB4-W60E3UBTR	5,925-7,125	Ant int UBT 4ft 6GHz SP	4
10046161	SC1-127AUBTR	12,75-13,25	Ant UBT Int 1ft 13 GHz SP	1
10046170	SC1-127AUBTC	12,75-13,25	Ant UBT Int 1ft 13 GHz DP	1
10046888	SC2-127CUBTC	12,75-13,25	Ant UBT Int 2ft 13 GHz DP	2
10046182	SB4-127EUBTR	12,75-13,25	Ant UBT Int 4ft 13 GHz SP	4
10046198	SB6-127D2UBTR	12,75-13,25	Ant UBT Int 6ft 13 GHz SP	6
10046162	SC1-142AUBTR	14,2-15,35	Ant UBT Int 1ft 15 GHz SP	1
10046171	SC1-142AUBTC	14,2-15,35	Ant UBT Int 1ft 15 GHz DP	1
10046213	SC3-142BUBTR	14,2-15,35	Ant UBT Int 3ft 15 GHz SP	3
10046221	SC3-142BUBTC	14,2-15,35	Ant UBT Int 3ft 15 GHz DP	3
10046183	SB4-142EUBTR	14,2-15,35	Ant UBT Int 4ft 15 GHz SP	4
10046199	SB6-142D2UBTR	14,2-15,35	Ant UBT Int 6ft 15 GHz SP	6
10046206	SB6-142D2UBTC	14,2-15,35	Ant UBT Int 6ft 15 GHz DP	6
10046172	SC1-190AUBTC	17,7-19,7	Ant UBT Int 1ft 18 GHz DP	1
10046164	SC1-220AUBTR	21,2-23,6	Ant UBT Int 1ft 23 GHz SP	1

10046173	SC1-220AUBTC	21,2-23,6	Ant UBT Int 1ft 23 GHz DP	1
10046215	SC3-220BUBTR	21,2-23,6	Ant UBT Int 3ft 23 GHz SP	3
10046223	SC3-220BUBTC	21,2-23,6	Ant UBT Int 3ft 23 GHz DP	3
10046193	SB4-220EUBTC	21,2-23,6	Ant UBT Int 4ft 23 GHz DP	4
10046201	SB6-220D2UBTR	21,2-23,6	Ant UBT Int 6ft 23 GHz SP	6
10046208	SB6-220D2UBTC	21,2-23,6	Ant UBT Int 6ft 23 GHz DP	6
10046165	SC1-250AUBTR	24,25-26,5	Ant UBT Int 1ft 26 GHz SP	1
10046174	SC1-250AUBTC	24,25-26,5	Ant UBT Int 1ft 26 GHz DP	1
10046880	SC2-250CUBTR	24,25-26,5	Ant UBT Int 2ft 26 GHz SP	2
10046892	SC2-250CUBTC	24,25-26,5	Ant UBT Int 2ft 26 GHz DP	2
10046216	SC3-250BUBTR	24,25-26,5	Ant UBT Int 3ft 26 GHz SP	3
10046224	SC3-250BUBTC	24,25-26,5	Ant UBT Int 3ft 26 GHz DP	3
10046186	SB4-250EUBTR	24,25-26,5	Ant UBT Int 4ft 26 GHz SP	4
10046194	SB4-250EUBTC	24,25-26,5	Ant UBT Int 4ft 26 GHz DP	4
10046166	SC1-280AUBTR	27,5-29,5	Ant UBT Int 1ft 28 GHz SP	1
10046175	SC1-280AUBTC	27,5-29,5	Ant UBT Int 1ft 28 GHz DP	1
10046881	SC2-280CUBTR	27,5-29,5	Ant UBT Int 2ft 28 GHz SP	2
10046834	SC2-280CUBTC	27,5-29,5	Ant UBT Int 2ft 28 GHz DP	2
10046168	SC1-380AUBTR	37,0-39,5	Ant UBT Int 1ft 38 GHz SP	1
10046177	SC1-380AUBTC	37,0-39,5	Ant UBT Int 1ft 38 GHz DP	1
10046884	SC2-380CUBTR	37,0-39,5	Ant UBT Int 2ft 38 GHz SP	2
10046836	SC2-380CUBTC	37,0-39,5	Ant UBT Int 2ft 38 GHz DP	2
10046169	SC1-420AUBTR	40,5-43,5	Ant UBT Int 1ft 42 GHz SP	1
10046178	SC1-420AUBTC	40,5-43,5	Ant UBT Int 1ft 42 GHz DP	1
10046885	SC2-420CUBTR	40,5-43,5	Ant UBT Int 2ft 42 GHz SP	2
10046837	SC2-420CUBTC	40,5-43,5	Ant UBT Int 2ft 42 GHz DP	2
10046957	SB1-W800CUBT-FCC	71-86	Ant UBT Int 1ft 80 GHz SP-FCC	1
10046955	SB1-W800CUBT	71-86	Ant UBT Int 1ft 80 GHz SP	1
10047070	SBX1-W800CUBT	71-86	JBT Int 1ft DP 80 GHz (with OM)	1
10048893	SBX1-W800CUBT-FCC	71-86	J Int 1ft DP 80 GHz (with OM)	1
10046956	SC2-W800BUBT	71-86	Ant UBT Int 2ft 80 GHz SP	2
10047071	SCX2-W800BUBT	71-86	JBT Int 2ft DP 80 GHz (with OM)	2

MCS-11 + TL1 Software				
3EM16790BF	Server License, 24 NE Ltd, MCS/TL1		\$ 10,500.00	30.00%
3EM16790BG	Server License, 32 NE Ltd, MCS/TL1		\$ 13,500.00	30.00%
3EM16790BH	Server License, 64 NE Ltd, MCS/TL1		\$ 19,500.00	30.00%
3EM16790BJ	Server License, 128 NE Ltd, MCS/TL1		\$ 28,500.00	30.00%
3EM16790FU	Server License, 256 NE Ltd, MCS-11/TL1		\$ 40,500.00	30.00%
3EM16790FP	Server License, 512 NE Ltd, MCS-11/TL1		\$ 46,500.00	30.00%
3EM16790BK	Server License, 1024 NE, MCS-11/TL1		\$ 52,500.00	30.00%
3EM16790JL	TSM 8000 Version 21.0 Upgrade		\$ 12,000.00	30.00%
3EM18968BF	Model 2311, SNMP Alarm Encoder		\$ 4,320.00	30.00%
3EM18968BG	Model 2311, SNMP Alarm Encoder with analog optio		\$ 5,760.00	30.00%
3EM18968DU	Model 2314, SNMP Alarm Encoder		\$ 2,040.00	30.00%

10036116	SPF2-52CN1S1R	5.25-5.85	Ant/Radome Kt SPF2-52CN1	2
37400112	SPF6-52CN	5.25-5.85	Antenna SPF6-52CN1S 5.25-	6
37400113	SPF6-52CN1S1R	5.25-5.85	Ant/Radome Kt SPF6-52CN1	6
10036179	PADX10-W57AC1S1R	5.725-6.875	ANT-PADX10-W57AC1S1R	10
10036753	PADX6-W57AC7S1R	5.725-6.875	ANT/RAD/SWAY BAR KIT	6
10036754	PADX8-W57AC7S1R	5.725-6.875	ANT/RAD/SWAY BAR KIT	8
10037381	UXA6-W57AC7	5.725-6.875	Antenna Sway Bar Kit UXA6	6
10037382	UXA8-W57AC7	5.725-6.875	ANT SWAY BAR KIT UXA8	8
10037383	UXA10-W57AC7	5.725-6.875	ANT SWAY BAR KIT UXA10	10
10038202	PADX8-W57AC7SGR	5.725-6.875	ANT/RAD/SWAY BAR KIT	8
10046461	PA4-W57DC1S1R	5.725-6.875	PA4-W57DC1S1R	4

37400097	PAD6-W57BC7S1R	5.725-6.875	ANT/RAD-KIT-PAD6-W57B	6
37500079	PAD8-W57AC7S1R	5.725-6.875	ANT/RAD/SWAY-BAR-KIT-	8
10027932	DA8-W57AC1S1	5.725-6.875	DA8-W57AC1S1-8ft-Hi-Perf	8
10050613	DA8-W57AC1SG	5.725-6.875	DA8-W57AC1SG	8
10038231	PADX6-U57AC7S1R	5.725-7.125	ANT/RAD/SWAY-BAR-KIT-	6
10038232	PADX8-U57AC7S1R	5.725-7.125	ANT/RAD/SWAY-BAR-KIT-	8
10038233	PADX10-U57AC7S1R	5.725-7.125	ANT/RAD/SWAY-BAR-KIT-	10
10038274	UXA6-U57AC7	5.725-7.125	ANT-SWAY-BAR-KIT-UXA6	6
10038276	UXA8-U57AC7	5.725-7.125	ANT-SWAY-BAR-KIT-UXA8	8
10038461	PADX6-U57AC1SGR	5.725-7.125	ANT/RAD-KIT-PADX6-U57A	6
10038464	UXA6-U57AC1SG	5.725-7.125	ANT-UXA6-U57AC1SG-5.72	6
10039971	UXA10-U57AC7	5.725-7.125	UXA10-U57AC7	10
10025486	DA8-59AC	5.925-6.425	ANT-DA8-59AC1S1-5.925-6.	8
10025500	DAX8-59AC	5.925-6.425	ANT-DAX8-59AC1S1-5.925-	8
10025681	DAX12-59AC	5.925-6.425	DAX12-59AC	12
10027913	DA12-59AC	5.925-6.425	ANT-DA12-59AC1S1-5.925-6	12
10036822	UXA6-59CC	5.925-6.425	UXA6-59BC1S1	6
10036823	UXA8-59BC	5.925-6.425	UXA8-59BC1S1	8
10036824	UXA10-59BC	5.925-6.425	UXA10-59BC1S1	10
10038951	UXA8-59BC1SG	5.925-6.425	UXA8-59BC1SG	8
10041161	UXA12-59AC4	5.925-6.425	UXA12-59AC4	12
10045664	DA12-59AC1SG	5.925-6.425	DA12-59AC1SG	12
10047242	SU6-59BC2	5.925-6.425	SU6-59BC2	6
37400100	PAD6-59BC7S1R	5.925-6.425	ANT/RAD/SWAY-BAR-KIT-	6
37500031	PAD8-59AC	5.925-6.425	ANT-PAD8-59AC1S1-5.925-6.	8
37500055	PAD8-59AC1S1R	5.925-6.425	Antenna/Radome-Kit-PAD8-5	8
37500069	PADX8-59AC1S1R	5.925-6.425	ANT/RAD-KIT-PADX8-59AC	8
37500082	PAD8-59AC7S1R	5.925-6.425	ANT/RAD/SWAY-BAR-KIT-	8
37600032	PAD10-59AC1S1	5.925-6.425	PAD10-59AC1S1-10ft-Std.	10
37600051	PAD10-59AC1S1R	5.925-6.425	ANT/RAD-KIT-PAD10-59AC	10
10036720	UXA6-W59BC7	5.925-6.875	ANT/SWAY-BAR-KIT-UXA6	6
10036721	UXA8-W59AC7	5.925-6.875	ANT/SWAY-BAR-KIT-UXA8	8
10040920	UXA6W59ACTF4HGWKT1	5.925-6.875	KIT-ANT-UXA6-W59-TF-CC	6
10040923	UXA8W59ACTF4HGWKT2	5.925-6.875	KIT-ANT-UXA8-W59-TF-CC	8
10043090	PADX6-W59BC7S1R	5.925-6.875	PADX6-W59BC7S1R	6
37400102	PAD6-W59BC7S1R	5.925-6.875	ANT/RAD/SWAY-BAR-KIT-	6
37400155	PADX6-W59BC1S1R	5.925-6.875	Antenna/Radome-Kit-PADX6	6
37500025	UXA8-W59AC	5.925-6.875	ANT-UXA8-W59AC1S1-5.92	8
37500059	PAD8-W59AC1S1R	5.925-6.875	Antenna-PAD8-W59AC1S1R	8
37500084	PAD8-W59AC7S1R	5.925-6.875	ANT/RAD/SWAY-BAR-KIT-	8
37500138	PADX8-W59AC7S1R	5.925-6.875	ANT/RAD-KIT-PADX8-W59	8
37600055	UXA10-W59AC	5.925-6.875	ANT-UXA10-W59AC1S1-5.9	10
37700040	UXA12-W59AC	5.925-6.875	ANT-UXA12-W59AC1S1-5.9	12
10045572	SUX4B-W60DC1SG	5.925-7.125	SUX4B-W60DC1SG	4
10049627	SB4-W60EC	5.925-7.125	SB4-W60EC	4
10049629	SBX4-W60EC	5.925-7.125	SBX4-W60EC	4
10049631	SB6-W60DC2	5.925-7.125	SB6-W60DC2	6
10049633	SBX6-W60DC2	5.925-7.125	SBX6-W60DC2	6
10050119	SC3-W60BC	5.925-7.125	SC3-W60BC	3
10050120	SCX3-W60BC	5.925-7.125	SCX3-W60BC	3
10050366	SB4-W60EC2	5.925-7.125	SB4-W60EC2	4
10025520	DA8-65AC	6.425-7.125	ANT-DA8-65AC1S1-6.425-7.	8
10025535	UXA8-65AC	6.425-7.125	ANT-UXA8-65AC1S1-6.425-	8
10031083	UXA6-65BD	6.425-7.125	UXA6-65BD	6
10032346	SUX6-65BC	6.425-7.125	Antenna-SUX6-65BC1S1-6.42	6
10032475	UXA6-65BC	6.425-7.125	ANT-UXA6-65BC1S1-6.425-	6
10036663	PAD10-65AC7S1R	6.425-7.125	PAD10-65AC7S1R	10
10036722	PAD6-65BC7	6.425-7.125	PAD6-65BC7S1	6
10043088	PAD6-65BC7S1R	6.425-7.125	PAD6-65BC7S1R	6

10043089	PAD8-65AC7S1R	6.425-7.125	PAD8-65AC7S1R	8
37400161	PAD6-65BC1SGR	6.425-7.125	ANT/RAD-KIT PAD6-65BC1	6
37500133	PAD8-65AC1SGR	6.425-7.125	Antenna/Radome-Kit PAD8-6	8
10049683	SC2-W100CC	10.0-11.7	SC2-W100CC	2
10049685	SCX2-W100CC	10.0-11.7	SCX2-W100CC	2
10049692	SC3-W100BC	10.0-11.7	SC3-W100BC	3
10049695	SCX3-W100BC	10.0-11.7	SCX3-W100BC	3
10049698	SB4-W100EC	10.0-11.7	SB4-W100EC	4
10049701	SBX4-W100EC	10.0-11.7	SBX4-W100EC	4
10050547	SU4-107DC0	10.0-11.7	SU4-107DC0	4
10049704	SB6-W100DC2	10.0-11.7	SB6-W100DC2	6
10049707	SBX6-W100DC2	10.0-11.7	SBX6-W100DC2	6
10050364	SB4-W100EC2	10.0-11.7	SB4-W100EC2	4
10050365	SBX4-W100EC2	10.0-11.7	SBX4-W100EC2	4
10050368	SCX3-W100BC8	10.0-11.7	SCX3-W100BC8	3
10050373	SCX3-W100BC-MODG	10.0-11.7	SCX3-W100BC-MODG	3
10011716	UXA8-107AD	10.7-11.7	UXA8-107AD	8
10011719	UXA10-107AD	10.7-11.7	UXA10-107AD	10
10025551	UXA8-107AC	10.7-11.7	ANT-UXA8-107AC1S1-10.7-	8
10025552	DAX8-107AC	10.7-11.7	ANT-DAX8-107AC1S1-10.7-	8
10031625	UXA6-107BC	10.7-11.7	ANT-UXA6-107BC1S1-10.7-	6
10031452	UXA6-107BC1SG	10.7-11.7	UXA6-107BC1SG-6ft-Hi-Pe	6
10031862	SU6-107BC	10.7-11.7	ANT-SU6-107BC1S1-10.7-11-	6
10032174	SUX6-107BC	10.7-11.7	ANT-SUX6-107BC1S1-10.7-11-	6
10034124	SU6-107BC2	10.7-11.7	ANT-SU6-107BC2S1-10.7-11-	6
10036307	SUX3-107BFC1SG	10.7-11.7	SUX3-107BFC1SG	3
10036350	SU6-107BC7	10.7-11.7	ANT/RAD/SWAY-BAR-KIT-	6
10040922	UXA6107BDTF4HGWKT4	10.7-11.7	KIT-ANT-UXA6-107-TF-VB4	6
10044370	SU4-107DD	10.7-11.7	SU4-107DD	4
10044372	SU4-107DC	10.7-11.7	SU4-107DC	4
10044375	SUX4-107DC	10.7-11.7	SUX4-107DC	4
10044416	UXA4-107DD-	10.7-11.7	UXA4-107DD-4-ft-Hi-Perf-D	4
10044417	UXA4-107DC	10.7-11.7	UXA4-107DC	4
10045205	UXA4-107DC1SG	10.7-11.7	UXA4-107DC1SG	4
10045206	SU4-107DC1SG	10.7-11.7	SU4-107DC1SG	4
10045207	SUX4-107DC1SG	10.7-11.7	SUX4-107DC1SG	4
10045212	SU4-107DC2	10.7-11.7	SU4-107DC2	4
10045244	SUX4-107DC7	10.7-11.7	SUX4-107DC7	4
10045245	SUX4-107DC7SG	10.7-11.7	SUX4-107DC7SG	4
10045451	UXA10-107AC8SG	10.7-11.7	UXA10-107AC8SG	10
10045860	SUX4-107DC2H	10.7-11.7	SUX4-107DC2H	4
10047243	UA8-107AC2	10.7-11.7	UA8-107AC2	8
10049853	UXA6-107BC1SM	10.7-11.7	UXA6-107BC1SM	6
10030822	UXA6-107BD1S1-	10.7-11.7	UXA6-107BD1S1-	6
37600089	UXA8-107AC7SG	10.7-11.7	ANT-UXA8-107AC7SG-10.7-	8
10047770	SBX4-127EB	12.7-13.25	SBX4-127EB	4
10030680	UXA6-142BB	14.2-15.35	UXA6-142BB	6
10047771	SBX4-142EB	14.2-15.35	SBX4-142EB	4
10044324	UXA4-142DB	14.2-15.35	UXA4-142DB	4
10046714	SCX2-142CB	14.2-15.35	SCX2-142CB	2
10046704	SC2-190CB	17.7-19.7	SC2-190CB	2
10046715	SCX2-190CB	17.7-19.7	SCX2-190CB	2
10047707	SC3-190BB	17.7-19.7	SC3-190BB	3
10047764	SCX3-190BB	17.7-19.7	SCX3-190BB	3
10044326	UXA4-190DB	17.7-19.7	UXA4-190DB	4
10049861	UXA4-190DB1SM	17.7-19.7	UXA4-190DB1SM	4
10047772	SBX4-190EB	17.7-19.7	SBX4-190EB	4
10038398	SUX2-190BB2H	17.7-19.7	SUX2-190BB2H	2
10045872	SC1-190AB	17.7-19.7	SC1-190AB	1

10047730	SB4-190EB	17.7-19.7	SB4-190EB	4
10047739	SB6-190DB2	17.7-19.7	SB6-190DB2	6
10047757	SBX6-190DB2	17.7-19.7	SBX6-190DB2	6
10049993	SBX4-190EB2	17.7-19.7	SBX4-190EB2	4
10044328	UXA4-220DB	21.2-23.6	UXA4-220DB	4
10045903	SCX1-220AB	21.2-23.6	SCX1-220AB	1
10046705	SC2-220CB	21.2-23.6	SC2-220CB	2
10046716	SCX2-220CB	21.2-23.6	SCX2-220CB	2
10047765	SCX3-220BB	21.2-23.6	SCX3-220BB	3
10047773	SBX4-220EB	21.2-23.6	SBX4-220EB	4
10045907	SCX1-380AB	37.0-40.0	SCX1-380AB	1
10046720	SCX2-380CB	37.0-40.0	SCX2-380CB	2
1AF25654AAAA			Sway Bar Kit 3ft-VHLP antennas, Inner, 5ft pi	
1AF06466AAAA			VSTRUT P3KIT,Inner, 4' 6' antenna, 5' pipe	
409084597			Sway Bar Kit 8ft, 10ft, 12ft, Adjustable Inboa	
10042202			APD20-D-35XH0R00S0, 120v, Lo psi, no pu	
10042194			APD20-D-35XH0R00S1-120v, 3-5psi, Lo psi-	
1AF24848ABAA			Dehydrator MT050C, 115/230 Vac, 50/60 Hz	
10042195			Automatic Dehydrator (APD20-D-35EH2R00)	
10042196			Automatic Dehydrator (APD20-D-35EH2R24)	
10042204			Automatic Dehydrator (APD70-D-35XH0R00)	
409113388			Automatic Dehydrator (MT500B-81315), 0.5 (
810265-001			Standard Elliptical Waveguide, E60 (5.6-6.42	
810265-002			Premium Elliptical Waveguide, EP60 (5.6-6.4	
815487-001			Standard Elliptical Waveguide-E105 (10.0-1	
815487-002			Premium Elliptical Waveguide-EP105 (10.0-	
15008330-PREM-V			Premium Elliptical Waveguide, EP65 (5.9-7.1	
810268-001			Standard Elliptical Waveguide, E185 (17.3-1	
810268-002			Premium Elliptical Waveguide, EP185 (17.3-	
15347601			GKIT-E220-Grounding Kit 0.25m Wire	
1AD127790001			Hanger Kit for EW180/EW220/EW240 (4321)	
SNAP-ST-158			Hanger, Stackable 1-5/8-10 Kit	
15006830-STD			FLEXWELL-Elliptical Waveguide, 21.2-23.6	
15347702			Wall Feed Through for FLEXWELL-Elliptical	
1AF14580AAAA			Premium Elliptical Waveguide, EWP52-59 (5-	
1AF16733AAAA			Uwave accessory*FLEX TWIST 60cm-CPR13	
10037376			3ft Twistflex-HC Radio-PBR220/UBR220,-	
1AB095530045			PPC Connector (compression)-straight male (
1AB095530046			PPC Connector (compression)-straight femal	
1AF03676ABAA			Bulk Pipe (for pipe mount)-4 1/2" x 72" (Val	
1AF22298AAAA			4 1/2" Universal Ring Mount (Valmont: 80106	
1AD173640001			BRL Cushion BC141X-1-5/8,10@0.24,10p (V	

Line of Sight - Path Survey (15- 38 GHz)			
SVC-KWIE-ENG-TSE1	LOS Path Survey (S	Single-hop system	\$-7,865.71
SVC-KWIE-ENG-TSE2	LOS Path Survey (1	1st hop for a connected multi	\$-7,865.71
SVC-KWIE-ENG-TSE3	LOS Path Survey (2	2nd hop+ for a connected multi	\$-6,293.71
SVC-KWIE-ENG-TSE4	LOS Path Survey (E	Each single-path in a multi-h	\$-7,865.71
SVC-KWIE-ENG-TSE5	Path Survey Air Far	Per man with equipment shi	\$11,428.57
SVC-KWIE-ENG-TSE6	Additional Survey I	Each	\$-142.86
SVC-KWIE-ENG-TSE7	Additional Survey I	Each	\$-285.71
SVC-KWIE-ENG-TSE8	Path Survey (Per M	Path Survey (Per Man Day)	\$-4,085.71
SVC-KWIE-ENG-TSE14	Additional Survey I	Each	\$-142.86
SVC-KWIE-ENG-TSE15	Additional Survey I	Each	\$-285.71

3CC57074AA	VHLPX1-80-AUBTR	71.0-86.0	Ant UBT Int 1ft DP-80 GHz (-	1
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1AF32561AAA	SHP3-6W-6WH/A	5.925-7.125	Microwave Ant. 6GHz 3ft SH	3
1AF31753AAA	VHLPX6-6W-6WH/B	5.925-7.125	ANT VHLPX 6FT Dual-pol 5.9	6
1AF09221AAA	VHLP3-11W-AW1	10.7-11.7	VHLP3-11W-AW1A-3' HP,H	3
1AF15943AAA			Standard Elliptical Waveguide, EW180 (17.5	
1AF16272AAA			Connector, Fixed-tuned / PBR220 for EW18	
409073269	WGB4-90		4" Boot	
409093101	190SE		Connector	
1AF13516AAA	31769-1		Hardware Kit - 3/8" x 1" for Hangers (31769	
1AF25570ABAA			SREW632-K Cushion Hanger kit (5) 2 hole	
409073251			4" Boot (WGB4-63) for EW63	

**NASPO
ValuePoint
Unit Price**

\$ 564.30	Outdated 4/5/2022
\$ 1,138.50	Outdated 4/5/2022
\$ 666.60	Outdated 4/5/2022
\$ 693.00	Outdated 4/5/2022
\$ 825.00	Outdated 4/5/2022
\$ 33.00	Outdated 4/5/2022
\$ 828.30	Outdated 4/5/2022
\$ 37.29	Outdated 4/5/2022
\$ 15,180.00	Delete 4/5/2022
\$ 109.95	Delete 4/5/2022
\$ 2,947.96	Outdated 4/5/2022
\$ 159.59	Delete 4/5/2022
\$ 924.00	Delete 4/5/2022
\$ 39.36	Outdated 4/5/2022
\$ 27.84	Outdated 4/5/2022
\$ 33.00	Outdated 4/5/2022
\$ 304.00	Delete 4/5/2022
\$ 601.28	Outdated 4/5/2022
\$ 165.00	Outdated 4/5/2022
\$ 1,600.00	Delete 4/5/2022
\$ 611.20	Outdated 4/5/2022
\$ 64.00	Delete 4/5/2022
\$ 67.20	Delete 4/5/2022
\$ 479.93	Outdated 4/5/2022
\$ 92.40	Outdated 4/5/2022
\$ 944.00	Delete 4/5/2022
\$ 688.00	Outdated 4/5/2022
\$ 688.00	Outdated 4/5/2022
\$ 480.00	Outdated 4/5/2022
\$ 480.00	Outdated 4/5/2022
\$ 300.80	Outdated 4/5/2022
\$ 308.16	Delete 4/5/2022
\$ 1,750.40	Outdated 4/5/2022
\$ 112.00	Delete 4/5/2022
\$ 220.80	Delete 4/5/2022
\$ 219.20	Delete 4/5/2022
\$ 220.80	Delete 4/5/2022
\$ 296.00	Delete 4/5/2022
\$ 432.00	Delete 4/5/2022
\$ 406.40	Delete 4/5/2022
\$ 428.80	Delete 4/5/2022

RATED ANTENNAS FROM RFS

Remove 4/5/2022

# Struts	Pol	NASPO- ValuePoint MSRP	NASPO- ValuePoint Discount %	NASPO- ValuePoint Unit Price	
					Remove 4/5/2022
0	Single	\$ 2,250.00	60%	\$ 900.00	Remove 4/5/2022
0	Dual	\$ 2,365.00	60%	\$ 946.00	Remove 4/5/2022
1	Single	\$ 3,880.00	60%	\$ 1,552.00	Remove 4/5/2022
1	Single	\$ 3,880.00	60%	\$ 1,552.00	Remove 4/5/2022
1	Dual	\$ 4,252.00	60%	\$ 1,700.80	Remove 4/5/2022
1	Single	\$ 9,790.00	60%	\$ 3,916.00	Remove 4/5/2022
1	Single	\$ 9,512.00	60%	\$ 3,804.80	Remove 4/5/2022
1	Dual	\$ 10,670.00	60%	\$ 4,268.00	Remove 4/5/2022
0	Single	\$ 1,415.00	60%	\$ 566.00	Remove 4/5/2022
0	Dual	\$ 1,555.00	60%	\$ 622.00	Remove 4/5/2022
0	Single	\$ 1,950.00	60%	\$ 780.00	Remove 4/5/2022
0	Dual	\$ 2,050.00	60%	\$ 820.00	Remove 4/5/2022
1	Single	\$ 3,800.00	60%	\$ 1,520.00	Remove 4/5/2022
1	Dual	\$ 3,988.00	60%	\$ 1,595.20	Remove 4/5/2022
1	Single	\$ 8,365.00	60%	\$ 3,346.00	Remove 4/5/2022
1	Dual	\$ 10,260.00	60%	\$ 4,104.00	Remove 4/5/2022
0	Dual	\$ 1,305.00	60%	\$ 522.00	Remove 4/5/2022
0	Single	\$ 2,202.00	60%	\$ 880.80	Remove 4/5/2022
1	Single	\$ 6,655.00	60%	\$ 2,662.00	Outdated 4/5/2022
0	Single	\$ 1,051.00	60%	\$ 420.40	Remove 4/5/2022
0	Dual	\$ 1,051.00	60%	\$ 420.40	Remove 4/5/2022
0	Dual	\$ 1,308.00	60%	\$ 523.20	Remove 4/5/2022
1	Single	\$ 3,953.00	60%	\$ 1,581.20	Remove 4/5/2022
1	Single	\$ 7,310.00	60%	\$ 2,924.00	Remove 4/5/2022
0	Single	\$ 741.00	60%	\$ 296.40	Remove 4/5/2022
0	Dual	\$ 741.00	60%	\$ 296.40	Remove 4/5/2022
0	Single	\$ 2,002.00	60%	\$ 800.80	Remove 4/5/2022
0	Dual	\$ 2,002.00	60%	\$ 800.80	Remove 4/5/2022
1	Single	\$ 3,094.00	60%	\$ 1,237.60	Remove 4/5/2022
1	Single	\$ 7,356.00	60%	\$ 2,942.40	Remove 4/5/2022
1	Dual	\$ 7,356.00	60%	\$ 2,942.40	Remove 4/5/2022
0	Dual	\$ 757.00	60%	\$ 302.80	Outdated 4/5/2022
0	Single	\$ 741.00	60%	\$ 296.40	Outdated 4/5/2022

0	Dual	\$ 727.00	60%	\$ 290.80	Outdated 4/5/2022
0	Single	\$ 1,862.00	60%	\$ 744.80	Remove 4/5/2022
0	Dual	\$ 1,862.00	60%	\$ 744.80	Remove 4/5/2022
1	Dual	\$ 3,052.00	60%	\$ 1,220.80	Remove 4/5/2022
1	Single	\$ 7,344.00	60%	\$ 2,937.60	Remove 4/5/2022
1	Dual	\$ 7,344.00	60%	\$ 2,937.60	Remove 4/5/2022
0	Single	\$ 1,050.00	60%	\$ 420.00	Remove 4/5/2022
0	Dual	\$ 1,057.00	60%	\$ 422.80	Remove 4/5/2022
0	Single	\$ 1,282.00	60%	\$ 512.80	Remove 4/5/2022
0	Dual	\$ 1,282.00	60%	\$ 512.80	Remove 4/5/2022
0	Single	\$ 2,292.00	60%	\$ 916.80	Remove 4/5/2022
0	Dual	\$ 2,292.00	60%	\$ 916.80	Remove 4/5/2022
1	Single	\$ 3,994.00	60%	\$ 1,597.60	Remove 4/5/2022
1	Dual	\$ 3,994.00	60%	\$ 1,597.60	Remove 4/5/2022
0	Single	\$ 741.00	60%	\$ 296.40	Remove 4/5/2022
0	Dual	\$ 850.00	60%	\$ 340.00	Remove 4/5/2022
0	Single	\$ 1,288.00	60%	\$ 515.20	Remove 4/5/2022
0	Dual	\$ 1,288.00	60%	\$ 515.20	Remove 4/5/2022
0	Single	\$ 741.00	60%	\$ 296.40	Remove 4/5/2022
0	Dual	\$ 748.00	60%	\$ 299.20	Remove 4/5/2022
0	Single	\$ 978.00	60%	\$ 391.20	Remove 4/5/2022
0	Dual	\$ 978.00	60%	\$ 391.20	Remove 4/5/2022
0	Single	\$ 1,050.00	60%	\$ 420.00	Remove 4/5/2022
0	Dual	\$ 1,050.00	60%	\$ 420.00	Remove 4/5/2022
0	Single	\$ 1,282.00	60%	\$ 512.80	Remove 4/5/2022
0	Dual	\$ 1,282.00	60%	\$ 512.80	Remove 4/5/2022
0	Single	\$ 1,488.00	60%	\$ 595.20	Remove 4/5/2022
0	Single	\$ 1,377.00	60%	\$ 550.80	Remove 4/5/2022
0	Dual	\$ 4,412.00	60%	\$ 1,764.80	Remove 4/5/2022
0	Dual	\$ 4,522.00	60%	\$ 1,808.80	Remove 4/5/2022
0	Single	\$ 1,921.00	60%	\$ 768.40	Remove 4/5/2022
0	Dual	\$ 4,955.00	60%	\$ 1,982.00	Remove 4/5/2022

\$ 7,350.00	Remove 4/5/2022
\$ 9,450.00	Remove 4/5/2022
\$ 13,650.00	Remove 4/5/2022
\$ 19,950.00	Remove 4/5/2022
\$ 28,350.00	Remove 4/5/2022
\$ 32,550.00	Remove 4/5/2022
\$ 36,750.00	Remove 4/5/2022
\$ 8,400.00	Outdated 4/5/2022
\$ 3,024.00	Outdated 4/5/2022
\$ 4,032.00	Outdated 4/5/2022
\$ 1,428.00	Remove 4/5/2022

0	\$ 2,762.76	60.00%	\$1,105.10	Remove 4/5/2022
1	\$ 4,695.32	60.00%	\$1,878.13	Remove 4/5/2022
1	\$ 7,199.99	60.00%	\$2,880.00	Remove 4/5/2022
1	\$ 18,726.62	60.00%	\$7,490.65	Outdated 4/5/2022
2	\$ 10,660.51	60.00%	\$4,264.20	Outdated 4/5/2022
2	\$ 15,700.51	60.00%	\$6,280.20	Outdated 4/5/2022
1	\$ 17,129.49	60.00%	\$6,851.80	Outdated 4/5/2022
1	\$ 21,260.26	60.00%	\$8,504.10	Outdated 4/5/2022
1	\$ 25,358.69	60.00%	\$10,143.48	Outdated 4/5/2022
1	\$ 17,275.51	60.00%	\$6,910.20	Outdated 4/5/2022
1	\$ 5,594.40	60.00%	\$2,237.76	Outdated 4/5/2022

2	\$ 8,860.53	60.00%	\$3,544.21	Outdated 4/5/2022
2	\$ 11,902.94	60.00%	\$4,761.18	Outdated 4/5/2022
+	\$ 13,783.80	60.00%	\$5,513.52	Outdated 4/5/2022
+	\$ 17,770.50	60.00%	\$7,108.20	Outdated 4/5/2022
2	\$ 11,110.47	60.00%	\$4,444.19	Outdated 4/5/2022
2	\$ 16,150.47	60.00%	\$6,460.19	Outdated 4/5/2022
2	\$ 21,100.52	60.00%	\$8,440.21	Outdated 4/5/2022
+	\$ 17,860.50	60.00%	\$7,144.20	Outdated 4/5/2022
+	\$ 24,700.48	60.00%	\$9,880.19	Outdated 4/5/2022
+	\$ 11,695.53	60.00%	\$4,678.21	Outdated 4/5/2022
+	\$ 18,445.49	60.00%	\$7,378.20	Outdated 4/5/2022
+	\$ 29,200.50	60.00%	\$11,680.20	Outdated 4/5/2022
+	\$ 13,772.99	60.00%	\$5,509.20	Outdated 4/5/2022
+	\$ 15,746.65	60.00%	\$6,298.66	Outdated 4/5/2022
±	\$ 31,496.00	60.00%	\$12,598.40	Remove 4/5/2022
+	\$ 28,517.65	60.00%	\$11,407.06	Outdated 4/5/2022
+	\$ 14,895.23	60.00%	\$5,958.09	Outdated 4/5/2022
+	\$ 19,294.52	60.00%	\$7,717.81	Outdated 4/5/2022
+	\$ 23,387.98	60.00%	\$9,355.19	Outdated 4/5/2022
+	\$ 24,070.48	60.00%	\$9,628.19	Outdated 4/5/2022
+	\$ 37,345.49	60.00%	\$14,938.20	Outdated 4/5/2022
+	\$ 32,170.53	60.00%	\$12,868.21	Outdated 4/5/2022
+	\$ 12,595.52	60.00%	\$5,038.21	Outdated 4/5/2022
2	\$ 8,747.83	60.00%	\$3,499.13	Outdated 4/5/2022
+	\$ 8,245.02	60.00%	\$3,298.01	Outdated 4/5/2022
+	\$ 11,393.34	60.00%	\$4,557.34	Outdated 4/5/2022
±	\$ 13,945.47	60.00%	\$5,578.19	Remove 4/5/2022
2	\$ 12,350.38	60.00%	\$4,940.15	Outdated 4/5/2022
+	\$ 11,827.69	60.00%	\$4,731.08	Remove 4/5/2022
+	\$ 16,442.30	60.00%	\$6,576.92	Outdated 4/5/2022
+	\$ 16,565.43	60.00%	\$6,626.17	Outdated 4/5/2022
+	\$ 20,551.93	60.00%	\$8,220.77	Outdated 4/5/2022
+	\$ 19,692.26	60.00%	\$7,876.90	Outdated 4/5/2022
+	\$ 23,629.76	60.00%	\$9,451.90	Outdated 4/5/2022
2	\$ 10,210.48	60.00%	\$4,084.19	Outdated 4/5/2022
2	\$ 8,860.53	60.00%	\$3,544.21	Outdated 4/5/2022
+	\$ 9,445.52	60.00%	\$3,778.21	Outdated 4/5/2022
+	\$ 19,444.53	60.00%	\$7,777.81	Outdated 4/5/2022
±	\$ 12,145.98	60.00%	\$4,858.39	Remove 4/5/2022
2	\$ 13,450.50	60.00%	\$5,380.20	Outdated 4/5/2022
2	\$ 15,250.48	60.00%	\$6,100.19	Outdated 4/5/2022
+	\$ 23,400.02	60.00%	\$9,360.01	Outdated 4/5/2022
+	\$ 31,870.51	60.00%	\$12,748.20	Outdated 4/5/2022
±	\$ 10,570.49	60.00%	\$4,228.20	Remove 4/5/2022
+	\$ 4,678.45	60.00%	\$1,871.38	Outdated 4/5/2022
+	\$ 5,316.99	60.00%	\$2,126.80	Outdated 4/5/2022
+	\$ 8,509.76	60.00%	\$3,403.90	Outdated 4/5/2022
+	\$ 9,148.30	60.00%	\$3,659.32	Outdated 4/5/2022
0	\$ 2,422.28	60.00%	\$968.91	Remove 4/5/2022
0	\$ 3,060.82	60.00%	\$1,224.33	Outdated 4/5/2022
±	\$ 5,530.49	60.00%	\$2,212.20	Remove 4/5/2022
+	\$ 13,772.99	60.00%	\$5,509.20	Outdated 4/5/2022
+	\$ 19,294.52	60.00%	\$7,717.81	Outdated 4/5/2022
+	\$ 15,357.02	60.00%	\$6,142.81	Outdated 4/5/2022
±	\$ 11,915.34	60.00%	\$4,766.14	Remove 4/5/2022
+	\$ 14,895.23	60.00%	\$5,958.09	Outdated 4/5/2022
2	\$ 17,502.03	60.00%	\$7,000.81	Remove 4/5/2022
+	\$ 7,285.53	60.00%	\$2,914.21	Outdated 4/5/2022
2	\$ 8,860.53	60.00%	\$3,544.21	Outdated 4/5/2022

±	\$ 12,243.84	60.00%	\$4,897.54	Outdated 4/5/2022
±	\$ 9,445.52	60.00%	\$3,778.21	Outdated 4/5/2022
±	\$ 13,405.21	60.00%	\$5,362.08	Outdated 4/5/2022
0	\$ 1,485.75	60.00%	\$594.30	Outdated 4/5/2022
0	\$ 2,124.22	60.00%	\$849.69	Outdated 4/5/2022
0	\$ 2,081.66	60.00%	\$832.66	Outdated 4/5/2022
0	\$ 2,628.50	60.00%	\$1,051.40	Outdated 4/5/2022
±	\$ 4,678.45	60.00%	\$1,871.38	Outdated 4/5/2022
±	\$ 5,316.99	60.00%	\$2,126.80	Outdated 4/5/2022
±	\$ 7,908.39	60.00%	\$3,163.36	Outdated 4/5/2022
±	\$ 9,445.52	60.00%	\$3,778.21	Outdated 4/5/2022
±	\$ 8,722.56	60.00%	\$3,489.02	Remove 4/5/2022
±	\$ 5,530.49	60.00%	\$2,212.20	Outdated 4/5/2022
±	\$ 6,205.50	60.00%	\$2,482.20	Remove 4/5/2022
0	\$ 3,501.05	60.00%	\$1,400.42	Remove 4/5/2022
0	\$ 3,775.52	60.00%	\$1,510.21	Outdated 4/5/2022
±	\$ 21,829.50	60.00%	\$8,731.80	Outdated 4/5/2022
±	\$ 26,995.51	60.00%	\$10,798.20	Remove 4/5/2022
±	\$ 19,294.52	60.00%	\$7,717.81	Outdated 4/5/2022
±	\$ 14,520.03	60.00%	\$5,808.01	Outdated 4/5/2022
±	\$ 14,900.23	60.00%	\$5,960.09	Outdated 4/5/2022
±	\$ 17,095.47	60.00%	\$6,838.19	Outdated 4/5/2022
±	\$ 11,063.99	60.00%	\$4,425.60	Outdated 4/5/2022
±	\$ 11,915.34	60.00%	\$4,766.14	Outdated 4/5/2022
±	\$ 12,595.53	60.00%	\$5,038.21	Outdated 4/5/2022
0	\$ 7,385.00	60.00%	\$2,954.00	Remove 4/5/2022
±	\$ 10,468.36	60.00%	\$4,187.34	Outdated 4/5/2022
±	\$ 18,308.43	60.00%	\$7,323.37	Outdated 4/5/2022
±	\$ 8,095.50	60.00%	\$3,238.20	Outdated 4/5/2022
±	\$ 7,663.35	60.00%	\$3,065.34	Outdated 4/5/2022
±	\$ 8,514.76	60.00%	\$3,405.90	Outdated 4/5/2022
±	\$ 9,895.48	60.00%	\$3,958.19	Outdated 4/5/2022
±	\$ 9,366.17	60.00%	\$3,746.47	Outdated 4/5/2022
±	\$ 11,020.52	60.00%	\$4,408.21	Remove 4/5/2022
±	\$ 9,220.47	60.00%	\$3,688.19	Remove 4/5/2022
±	\$ 10,120.53	60.00%	\$4,048.21	Outdated 4/5/2022
±	\$ 8,680.49	60.00%	\$3,472.20	Outdated 4/5/2022
±	\$ 9,445.52	60.00%	\$3,778.21	Outdated 4/5/2022
±	\$ 10,570.49	60.00%	\$4,228.20	Remove 4/5/2022
±	\$ 31,225.53	60.00%	\$12,490.21	Outdated 4/5/2022
±	\$ 10,930.50	60.00%	\$4,372.20	Outdated 4/5/2022
±	\$ 19,120.50	60.00%	\$7,648.20	Outdated 4/5/2022
±	\$ 18,895.45	60.00%	\$7,558.18	Outdated 4/5/2022
±	\$ 15,357.00	60.00%	\$6,142.80	Outdated 4/5/2022
±	\$ 24,925.53	60.00%	\$9,970.21	Outdated 4/5/2022
±	\$ 4,891.32	60.00%	\$1,956.53	Remove 4/5/2022
±	\$ 15,745.52	60.00%	\$6,298.21	Remove 4/5/2022
±	\$ 5,170.55	60.00%	\$2,068.22	Remove 4/5/2022
±	\$ 9,361.17	60.00%	\$3,744.47	Remove 4/5/2022
0	\$ 1,911.42	60.00%	\$764.57	Outdated 4/5/2022
0	\$ 1,272.81	60.00%	\$509.12	Outdated 4/5/2022
0	\$ 1,911.42	60.00%	\$764.57	Outdated 4/5/2022
0	\$ 1,953.98	60.00%	\$781.59	Outdated 4/5/2022
0	\$ 2,592.45	60.00%	\$1,036.98	Outdated 4/5/2022
±	\$ 9,361.17	60.00%	\$3,744.47	Outdated 4/5/2022
±	\$ 12,820.50	60.00%	\$5,128.20	Outdated 4/5/2022
±	\$ 4,891.32	0.00%	\$4,891.32	Outdated 4/5/2022
0	\$ 6,745.48	0.00%	\$6,745.48	Remove 4/5/2022
0	\$ 847.14	0.00%	\$847.14	Remove 4/5/2022

±	\$ 4,495.47	0.00%	\$4,495.47	Remove 4/5/2022
±	\$ 6,782.09	0.00%	\$6,782.09	Remove 4/5/2022
±	\$ 8,613.01	0.00%	\$8,613.01	Remove 4/5/2022
±	\$ 5,755.54	0.00%	\$5,755.54	Remove 4/5/2022
±	\$ 9,361.17	0.00%	\$9,361.17	Remove 4/5/2022
0	\$ 2,285.75	0.00%	\$2,285.75	Remove 4/5/2022
0	\$ 1,272.81	0.00%	\$1,272.81	Remove 4/5/2022
0	\$ 1,911.42	0.00%	\$1,911.42	Outdated 4/5/2022
0	\$ 2,592.45	60.00%	\$1,036.98	Remove 4/5/2022
±	\$ 5,170.48	60.00%	\$2,068.19	Outdated 4/5/2022
0	\$ 1,485.75	60.00%	\$594.30	Remove 4/5/2022
0	\$ 1,911.42	60.00%	\$764.57	Remove 4/5/2022
pe (VSTRUT 31	\$ 700.00	60.00%	\$280.00	Remove 4/5/2022
	\$ 650.00	60.00%	\$260.00	Moved 4/5/2022
rd, use only as r	\$ 630.00	60.00%	\$252.00	Remove 4/5/2022
rge, < 7800' 6 1	\$ 4,725.00	60.00%	\$1,890.00	Outdated 4/5/2022
alm, 10 day pur	\$ 4,725.00	60.00%	\$1,890.00	Outdated 4/5/2022
	\$ 9,375.00	60.00%	\$3,750.00	Moved 4/19/2022
S1), 120v, 3 5 p	\$ 6,724.97	60.00%	\$2,689.99	Outdated 4/5/2022
S1), 120v, 3 5 p	\$ 7,224.98	60.00%	\$2,889.99	Outdated 4/5/2022
S0), Hi capacity	\$ 6,724.97	60.00%	\$2,689.99	Outdated 4/5/2022
FM, Full Alarm	\$ 9,500.00	60.00%	\$3,800.00	Moved 4/19/2022
5-GHz)	\$ 33.95	60.00%	\$13.58	Outdated 4/5/2022
125 GHz)	\$ 37.03	60.00%	\$14.81	Outdated 4/5/2022
1.7 GHz)	\$ 26.74	60.00%	\$10.70	Outdated 4/5/2022
11.7 GHz)	\$ 32.48	60.00%	\$12.99	Outdated 4/5/2022
125 GHz)	\$ 31.22	60.00%	\$12.49	Outdated 4/5/2022
9.7 GHz)	\$ 19.88	60.00%	\$7.95	Outdated 4/5/2022
19.7 GHz)	\$ 23.17	60.00%	\$9.27	Outdated 4/5/2022
	\$ 205.48	60.00%	\$82.19	Remove 4/5/2022
1A) (10-pack)	\$ 56.90	60.00%	\$22.76	Moved 4/19/2022
	\$ 70.00	60.00%	\$28.00	Outdated 4/5/2022
-GHz (Per Ft) E	\$ 72.87	60.00%	\$29.15	Outdated 4/5/2022
Waveguide E22	\$ 205.48	60.00%	\$82.19	Remove 4/5/2022
925 à € 6.425 G	\$ 63.50	60.00%	\$25.40	Moved 4/19/2022
7G	\$ 958.75	60.00%	\$383.50	Moved 4/19/2022
Fin plated flang	\$ 969.99	60.00%	\$388.00	Outdated 4/5/2022
3 per LMR run)	\$ 85.45	60.00%	\$34.18	Outdated 4/5/2022
e (1 per LMR ru	\$ 70.50	60.00%	\$28.20	Outdated 4/5/2022
mont: P472)	\$ 750.00	60.00%	\$300.00	Outdated 4/5/2022
8, LWRM) PR	\$ 3,036.00	60.00%	\$1,214.40	Outdated 4/5/2022
alment BC1410	\$ 85.00	60.00%	\$34.00	Outdated 4/5/2022

				Remove 4/5/2022
65.00%	\$ 2,753.00			Remove 4/5/2022
65.00%	\$ 2,753.00			Remove 4/5/2022
65.00%	\$ 2,202.80			Remove 4/5/2022
65.00%	\$ 2,753.00			Remove 4/5/2022
65.00%	\$ 4,000.00			Remove 4/5/2022
65.00%	\$ 50.00			Remove 4/5/2022
65.00%	\$ 100.00			Remove 4/5/2022
65.00%	\$ 1,430.00			Remove 4/5/2022
65.00%	\$ 50.00			Remove 4/5/2022
65.00%	\$ 100.00			Remove 4/5/2022

0	\$ 1,964.70	60.00%	\$785.88	Outdated 4/5/2022
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0	\$ 6,500.00	60.00%	\$2,600.00	Outdated 4/5/2022
1	\$ 13,481.90	60.00%	\$5,392.76	Remove 4/5/2022
0	\$ 2,750.00	60.00%	\$1,100.00	Remove 4/5/2022
3-19.7 GHz)	\$ 20.20	60.00%	\$8.08	Remove 4/5/2022
0 (top) (1180S	\$ 554.40	60.00%	\$221.76	Remove 4/5/2022
	\$ 143.77	60.00%	\$57.51	Dupe
	\$ 652.82	60.00%	\$261.13	Outdated 4/5/2022
0-1) (10 pack)	\$ 24.30	60.00%	\$9.72	Outdated 4/5/2022
	\$ 157.65	60.00%	\$63.06	Outdated 4/5/2022
	\$ 143.77	60.00%	\$57.51	Dupe

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