

**Solid IT Networks**  
**DIR-CPO-4852**  
**ADVA, February 2023**  
**Confidential Pricing for DIR Members**

Note: Solid IT does not have control on market conditions or events (ie: Geopolitical Disruptions, Tariffs, Trade Disputes, Coronavirus, Supply, Shipping, Force Majeure, etc.) which may affect product pricing and availability. Pricing is subject to change. Please contact your Solid IT Networks sales rep or email sales@soliditnetworks.com for assistance with design, configuration and pricing.

**DIR Discount Levels**

Network Virtualization	10%
Time Synchronization, Network Access, Network Virtualization	20%
Optical Transport Network, ALM, Pluggables, Generic Accessories	30%
Maintenance	2%
Services, Training	1%

Part Number	Description	DIR MSRP
1091480460-01	OptiSwitch preinstalled SW Rel.4.5.100, FW 0x2C5. Includes SW image and FPGA FW for OS9124/OS9244, OS940 and OS906G	\$ -
1091480461-01	OptiSwitch preinstalled SW Rel.4.5.100, FW 0xC2. Includes SW image and FPGA FW for OS904/OS906/OS912 and OS606 (L2+)	\$ -
1061800760-01	MicroMux: QSFP28, MPO, 10x10GbE	\$ 13,531.43
1061800764-01	MicroMux: QSFP28, MPO, 10x10GbE, 2x 40GbE, 1x 100GE	\$ 11,047.66
1061022201-01	SFP+, LC, 10GbE, BiDi, i-Temp	\$ 676.57
1061020801-01	MicroMux: QSFP+, MPO, 4x10GbE, BiDi	\$ 4,876.19
1061002141-01	MicroMux Nano SR: SFP+, MPO, 10x1GbE, multimode (SX) - Generic version	\$ 3,047.62
1061700638-01	400G Pluggable, coherent, C-Band tunable DWDM network IF center frequency from 191.25 to 196.1 THz on a 12.5GHz grid	\$ 28,525.71
1061000701-01	MicroMux Quattro SR: QSFP-DD, MPO, 4x100GbE, multimode - Generic version	\$ 5,705.14
1061000601-01	AOE T400: ICTROSA OIF comp., 400Gbps, SiPh	\$ 8,716.19
1061000760-01	MicroMux: QSFP28, MPO, 10x10GbE, Generic version	\$ 14,072.38
1061000703-01	MicroMux Quattro LR4: QSFP-DD, SN connector, 4x100GbE, single mode - Generic version	\$ 7,131.43
1061800764-99	MicroMux: QSFP28, MPO, 10x10GbE, 1x 100GE for F8/T-MP-2D12CT only	\$ 11,047.66
1061700633-01	CFP2 DWDM C-Band tunable coherent network IF center frequency from 191.25 to 196.10 THz on a 6.25GHz grid with up to 224Gbit/s, supporting QPSK 100G and 16QAM 200G mode	\$ 27,391.39
1061000633-01	AOE CFP2-DCO DWDM C-Band tunable coherent network frequency from 191.25 to 196.10 THz 6.25GHz grid 200Gbit/s, Generic version	\$ 23,219.92
1061002151-01	AOEC210 CFP2-DCO DWDM C-Band tunable coherent network frequency from 191.25 to 196.10 THz 6.25GHz grid 100Gbit/s, supporting QPSK and DQPSK 100G modes - Generic version	\$ 20,757.22
1061002142-01	MicroMux Nano LR: SFP+, MPO, 10x1GbE, singlemode (LX) - Generic version	\$ 5,276.95
1061000764-01	MicroMux: QSFP28, MPO, 10x10GbE, 1x 100GE	\$ 8,795.43
1061000634-01	400G Pluggable, coherent, C-Band tunable DWDM network IF center frequency from 191.25 to 196.1 THz on a 12.5GHz grid - Generic version	\$ 28,525.71
1061000702-01	MicroMux Quattro CWDM4: QSFP-DD, SN, 4x100GbE, singlemode (CWDM) - Generic version	\$ 7,131.43

1061700635-01	112G Pluggable, coherent, C-Band tunable DWDM network IF center frequency from 191.25 to 196.1 THz on a 12.5GHz grid	\$	24,345.92
1061800764-02	MicroMux: QSFP28, MPO, 10x10GbE, 1x 100GE	\$	11,047.66
1061002152-01	AOE CFP2-DCO DWDM C-Band tunable coherent network frequency from 191.25 to 196.10 THz 6.25GHz grid 100Gbit/s, AEC Version	\$	28,145.37
1061800764-21	MicroMux: QSFP28, MPO, 10x10GbE, 1x 100GE, for use with QuadFlex/QuadFlex-S only (F8/MP-2B4CT and F8/MP-2B4CT-S).	\$	11,047.66
1013904054	Mounting Kit for 64ALM in a 21" or 23" rack. NOTE: the 19" brackets are included with the ALM64.	\$	229.68
1043739882-01	ALM Demarcation Reflector, pad, LC/APC connector. Demarcation reflector optimized for PON, grey and DWDM channels. Do not use for CWDM.	\$	58.63
1043739880-01	Jumper cabling between ALM Monitor Unit and ALM WDM Coupler - Single Mode, LC/APC, 100 cm	\$	41.31
1043739883-01	ALM Demarcation Reflector, pad, SC/APC connector	\$	263.12
1013904015	Mounting Kit for F7/16ALM and 8/1CSM as a single unit in a 19" rack	\$	25.94
1013904016	Mounting Kit for two F7/16ALM and 8/1CSM units in a 19" rack	\$	224.95
1013904017	Mounting Kit for F7/16ALM and 8/1CSM as a single unit in an ETSI or 23" rack	\$	177.22
1013904018	Mounting Kit for two F7/16ALM and 8/1CSM units in an ETSI or 23" rack	\$	327.20
1043739879-01	ALM Demarcation Reflector for OSFMA, LC/APC connector	\$	37.20
1043739878-01	ALM Demarcation Reflector, pad, SC/APC connector. Demarcation reflector optimized for grey and DWDM channels.	\$	54.53
1043739877-01	ALM Demarcation Reflector, pad, SC/PC connector. Demarcation reflector optimized for grey and DWDM channels.	\$	54.53
1043739876-01	ALM Demarcation Reflector patch cord, 75cm length, LC/APC connector	\$	224.95
1043739874-01	Jumper cabling between ALM Monitor Unit and ALM WDM Coupler - Single Mode, LC/APC, 310 cm, LSZH	\$	21.81
1043739873-01	ALM Demarcation Reflector patch cord, 310cm length, LC/PC connector	\$	204.50
1043739865-01	ALM WDM Coupler Y-cable w/ 1x 1650nm upgrade port, 310 cm length, LC/APC connector to ALM processor unit, LC/PC to network upgrade ports	\$	286.29
1043739861-01	ALM WDM Coupler Shelf, 1HU filter shelf w/ 16 x 1650nm upgrade ports, passive and unmanaged, LC/APC connector to ALM processor unit, LC/PC to network upgrade ports. Mounting kit included.	\$	2,785.56
1043739871-01	ALM Demarcation Reflector, pad, SC/PC connector	\$	263.12
1043709866-01	ALM WDM Coupler Shelf, 1HU half width filter shelf w/ 8 x 1650nm upgrade ports, passive and unmanaged, LC/APC connector to ALM processor unit, LC/PC to network upgrade ports. Mounting kit NOT included, please use ALM16 mounting kits.	\$	2,004.06
1043709863-01	ALM WDM Coupler Shelf, 1HU filter shelf w/ 32 x 1650nm upgrade ports, passive and unmanaged, LC/APC connector to ALM processor unit, LC/PC to network upgrade ports. Mounting kit included.	\$	6,243.87
1043709846-01	ALM Monitor Unit, 64 ports with LC/APC connector, AC powered. Only 19" brackets included. Please order ALM64/MK for additional mounting options.	\$	27,238.55
1043709847-01	ALM Monitor Unit, 64 ports with LC/APC connector, -48V DC powered. Only 19" brackets included. Please order ALM64/MK for additional mounting options.	\$	27,238.55
1043709842-02	ALM Monitor Unit, 16 ports with LC/APC connector, -48V DC powered. Mounting kit not included.	\$	14,968.93
1043709841-02	ALM Monitor Unit, 16 ports with LC/APC connector, AC powered. Mounting kit not included.	\$	14,968.93
1043739867-01	ALM WDM Coupler Y-cable w/ 1x 1650nm upgrade port, 200 cm length, no connectors, 900µ fibers	\$	143.14
1091737011-01	RTU for a manhole sensor (MHS) for the ALM. Per manhole sensor one RTU is required.	\$	1,162.74
1043739869-01	ALM Demarcation Reflector, Premium Isolation, 16 demarcation reflectors integrated in 19 inch, passive and unmanaged, SC/PC connectors	\$	4,089.87

1043739870-01	ALM Demarcation Reflector, Premium Isolation, 4 demarcation reflectors integrated in 19 inch, half-width, passive and unmanaged, SC/PC connectors	\$	1,145.16
1043739881-01	ALM Demarcation Reflector, pad, LC/PC connector. Demarcation reflector optimized for PON, grey and DWDM channels. Do not use for CWDM.	\$	58.63
1043709867-01	Re-usable water sensor for mounting fiber trays	\$	436.25
1043739902-01	Jumper cabling between ALM Monitor Unit and ALM WDM Coupler - Single Mode, LC/APC, 200 cm	\$	47.98
1043739904-01	Jumper cabling between ALM Monitor Unit and ALM WDM Coupler - Single Mode, LC/APC, 1000 cm	\$	47.98
1091707041-03	SW for ALM Release 4.1.3 preinstalled, Full System SW includes both ALM System Controller and ALM Monitor Unit software	\$	-
1043739903-01	Jumper cabling between ALM Monitor Unit and ALM WDM Coupler - Single Mode, LC/APC, 600 cm	\$	47.98
1043739868-01	95/5% passive splitter for use with manhole sensors. 200 cm length, no connectors, bare fibers	\$	44.99
1043709841-03	ALM Monitor Unit, 16 ports with LC/APC connector, AC powered. Mounting kit not included.	\$	14,968.93
1043709846-02	ALM Monitor Unit, 64 ports with LC/APC connector, AC powered. Only 19" brackets included. Please order ALM64/MK for additional mounting options.	\$	27,238.55
1043709842-03	ALM Monitor Unit, 16 ports with LC/APC connector, -48V DC powered. Mounting kit not included.	\$	14,968.93
1043739901-02	ALM Demarcation Reflector patch cord with bare fiber, LSH/APC connector (E2000® Connector) on one end and no connector on the other end	\$	196.63
1043709847-02	ALM Monitor Unit, 64 ports with LC/APC connector, -48V DC powered. Only 19" brackets included. Please order ALM64/MK for additional mounting options.	\$	27,238.55
1043739905-01	ALM Demarcation Reflector patch cord with low bending loss bare fiber, 200cm length, without connectors.	\$	53.14
1091707041-02	SW for ALM Release 4.1.2 preinstalled, Full System SW includes both ALM System Controller and ALM Monitor Unit software	\$	-
1043709876-01	Sensor for door or cabinet, LC/APC connectors	\$	601.81
1043739898-01	ALM Demarcation Reflector, pad, SC/PC connector. Demarcation reflector optimized for grey and DWDM channels. Bundle of 2k pcs	\$	68,778.67
1091707051-01	SW for ALM Release 5.1.1 preinstalled, Full System SW includes both ALM System Controller and ALM Monitor Unit software	\$	-
1013904019	Mounting Kit for 16ALM as a single unit and space for a 1-slot LGX module in a 19" rack. Two Fiber Fingers are included.	\$	158.88
1013904044	Small cover for the DC power connector to the ALM.	\$	24.32
1043739890-01	Jumper cabling between ALM Monitor Unit and ALM WDM Coupler - Single Mode, LC/APC, 150 cm	\$	43.62
1043709845-02	ALM Demarcation Reflector patch cord with low bending loss G657.A2 fibers and 900 micrometer coating, 155cm length, without connectors.	\$	109.07
1043739891-01	50/50% passive splitter. 200 cm length, no connectors, bare fibers	\$	49.12
1091707045-01	SW for ALM Release 4.5.1 preinstalled, Full System SW includes both ALM System Controller and ALM Monitor Unit software	\$	-
1091707045-02	SW for ALM Release 4.5.2 preinstalled, Full System SW includes both ALM System Controller and ALM Monitor Unit software	\$	-
1091707033-01	SW for ALM Release 3.3.1 preinstalled, Full System SW includes both ALM System Controller and ALM Monitor Unit software	\$	-
1043709875-01	ALM WDM Coupler, 1-slot LGX module w/ 8x WDM couplers, passive and unmanaged. Each coupler has 1x 1650nm mon, 1x network and 1x client port. LC/APC to ALM processor unit, LC/PC to network and client ports. LGX shelve or mounting kit NOT included.	\$	2,004.04
1043739899-01	ALM Demarcation Reflector, pad, SC/PC connector. Demarcation reflector optimized for grey and DWDM channels. Bundle of 10k pcs	\$	318,857.14

1043739895-01	ALM Demarcation Reflector, pad, LC/PC connector. Demarcation reflector optimized for PON, grey and DWDM channels. Do not use for CWDM. Bundle of 10k pcs	\$	354,285.71
1043739896-01	ALM Demarcation Reflector, pad, SC/APC connector. Demarcation reflector optimized for grey and DWDM channels. Bundle of 2k pcs	\$	68,778.67
1043709849-01	96-port extension unit for the 16ALM with USB for power and management, 2x LC/APC connections to the ALM and 96x LC/APC as output.	\$	14,171.43
1043739900-01	ALM Demarcation Reflector patch cord, 140cm length, LSH/APC connector (E2000® Connector)	\$	204.50
1043739893-01	ALM Demarcation Reflector, pad, LC/APC connector. Demarcation reflector optimized for PON, grey and DWDM channels. Do not use for CWDM. Bundle of 10k pcs	\$	354,285.71
1091707052-01	SW for ALM Release 5.2.1 preinstalled, Full System SW includes both ALM System Controller and ALM Monitor Unit software	\$	-
1043739892-01	ALM Demarcation Reflector, pad, LC/APC connector. Demarcation reflector optimized for PON, grey and DWDM channels. Do not use for CWDM. Bundle of 2k pcs	\$	78,604.19
1043739897-01	ALM Demarcation Reflector, pad, SC/APC connector. Demarcation reflector optimized for grey and DWDM channels. Bundle of 10k pcs	\$	318,857.14
1043709848-01	384-port extension unit for the 16ALM with USB for power and management, 8x LC/APC connections to the ALM and 16x MPO24 as output.	\$	56,685.71
1043739894-01	ALM Demarcation Reflector, pad, LC/PC connector. Demarcation reflector optimized for PON, grey and DWDM channels. Do not use for CWDM. Bundle of 2k pcs	\$	78,604.19
1043739889-01	Jumper for internal cabling - Single Mode, LC/APC-LC/PC, 1500 cm	\$	21.81
1091707034-01	SW for ALM Release 3.4.1 preinstalled, Full System SW includes both ALM System Controller and ALM Monitor Unit software	\$	-
1091707041-04	SW for ALM Release 4.1.4 preinstalled, Full System SW includes both ALM System Controller and ALM Monitor Unit software	\$	-
1091707032-01	SW for ALM Release 3.2.1 preinstalled, Full System SW includes both ALM System Controller and ALM Monitor Unit software	\$	-
1091707033-02	SW for ALM Release 3.3.2 preinstalled, Full System SW includes both ALM System Controller and ALM Monitor Unit software	\$	-
1091707055-01	SW for ALM Release 5.5.1 preinstalled, Full System SW includes both ALM System Controller and ALM Monitor Unit software	\$	-
1091707032-02	SW for ALM Release 3.2.2 preinstalled, Full System SW includes both ALM System Controller and ALM Monitor Unit software	\$	-
1043739886-01	Jumper for internal cabling - Single Mode, LC/APC-SC/APC, 700 cm, LSZH	\$	43.62
1043739885-01	Jumper for internal cabling - Single Mode, LC/APC-FC/PC, 700 cm, LSZH	\$	43.62
1043739887-01	Jumper for internal cabling - Single Mode, FC/PC-FC/PC, 700 cm, LSZH	\$	43.62
1091301101-01	vHosting platform feature set up to 8 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	280.00
1091301102-01	vHosting platform feature set up to 12 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	508.15
1091301100-01	vHosting platform feature set up to 4 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	72.59
1091301105-01	vHosting platform feature set up to 36 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	1,451.85
1091301103-01	vHosting platform feature set up to 16 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	725.93
1091301104-01	vHosting platform feature set up to 24 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	1,140.74
1091301151-01	Connector support for management and datapath over LTE access networks. Licensed for one machine per unit qty.	\$	41.48
1091301152-01	Support for Connector internal local router capabilities, including NAT, IP Passthrough and Hybrid WAN Failover. Licensed for one machine per unit quantity.	\$	1.04
1089002030-01	4010C, Intel D-1548, 2xDDR4-2133 16GB UDIMM, 512GB SSD, includes 8 Gbe RJ45 ports and 1 NIC slot. NIC cards sold separately.	\$	6,740.74

1089002206-01	1515 chassis, 12 Core Intel C3858, 2 x 16GB DDR4-ECC SODIMM (32GB total), 512GB SSD, includes 6 x Gbe RJ45 ports, 2 x SFP ports.	\$	5,600.00
1089002207-01	1515 chassis, 12 Core Intel C3858, 2 x 16GB DDR4-ECC SODIMM (32GB total), 512GB SSD, includes 6 x Gbe RJ45 ports, 2 x SFP ports. LTE enabled - Sierra-7455 module installed.	\$	6,263.70
1089002208-01	1515 chassis, 16 Core Intel C3958, 2 x 16GB DDR4-ECC SODIMM (32GB total), 512GB SSD, includes 6 x Gbe RJ45 ports, 2 x SFP ports.	\$	5,729.63
1089002209-01	1515 chassis, 16 Core Intel C3958, 2 x 16GB DDR4-ECC SODIMM (32GB total), 512GB SSD, includes 6 x Gbe RJ45 ports, 2 x SFP ports. LTE enabled - Sierra-7455 module installed.	\$	6,382.96
1089002210-01	1515 chassis, 4 Core Intel C3558, DDR4-2133 8GB DIMM, 128GB SSD, includes 4 x Gbe RJ45 ports, 2 x SFP ports. LTE enabled - Sierra-7455 module installed.	\$	3,007.41
1089002211-01	1515 chassis, 4 Core Intel C3558, 2xDDR4-2133 8GB DIMM, 256GB SSD, includes 4 x Gbe RJ45 ports, 2 x SFP ports. LTE enabled - Sierra-7455 module installed.	\$	4,085.93
1091301901-41	Ensemble Pre-Installed SW Rel.19.1.1 Installation SW packaged for XG304u. Full CIB.	\$	-
1091301901-51	Ensemble Rel.19.1.1 Installation SW packaged for XG304u. KVM Only.	\$	-
1091301901-61	Ensemble Pre-Installed SW Rel.19.1.1 Installation SW packaged for XG118Pro (SH). Full CIB.	\$	-
1091301901-71	Ensemble Pre-Installed SW Rel.19.1.1 Installation SW packaged for XG118Pro (SH). KVM Only.	\$	-
BC00001254	48 Core license bundle - 60 month subscription. Connector base with vhosting licenses. MANO (HA) - base and HA licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 48 core CPU server per unit quantity.	\$	5,475.56
BC00001274	ADVA Ensemble SaaS MANO Service. Tier 2 managed service includes hosting and 24x7 monitoring of MANO infrastructure. Includes MANO license RTU during the term. Priced per 100 managed elements for a 12 month term.	\$	126,884.59
BC00001278	ADVA Ensemble SaaS MANO Service. Tier 2 managed service includes hosting and 24x7 monitoring of MANO infrastructure. Includes MANO license RTU during the term. Priced per 5000 managed elements for a 12 month term.	\$	422,074.07
BC00001253	48 Core license bundle - 36 month subscription. Connector base with vhosting licenses. MANO (HA) - base and HA licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 48 core CPU server per unit quantity.	\$	3,608.89
BC00001276	ADVA Ensemble SaaS MANO Service. Tier 2 managed service includes hosting and 24x7 monitoring of MANO infrastructure. Includes MANO license RTU during the term. Priced per 1000 managed elements for a 12 month term.	\$	189,777.78
BC00001279	ADVA Ensemble SaaS MANO Service. Tier 1 additional Tenant setup, hosting, monitoring. Includes 100 MANO license RTU during the term. Priced per 100 managed elements for a 12 month term.	\$	17,318.52
1091302003-01	Ensemble Connector SW PREINST Rel.19.1.5 Installation SW	\$	-
1091301106-01	vHosting platform feature set up to 48 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	1,866.67
BC00001275	ADVA Ensemble SaaS MANO Service. Tier 2 managed service includes hosting and 24x7 monitoring of MANO infrastructure. Includes MANO license RTU during the term. Priced per 500 managed elements for a 12 month term.	\$	148,845.93
1091302101-01	Ensemble Connector SW PREINST Rel.21.1.1 Installation SW	\$	-
BC00001272	ADVA Ensemble SaaS MANO Service. Tier 1 managed service includes hosting and 24x7 monitoring of MANO infrastructure. Includes MANO license RTU during the term. Priced per 2500 managed elements for a 12 month term.	\$	199,111.11
BC00001273	ADVA Ensemble SaaS MANO Service. Tier 1 managed service includes hosting and 24x7 monitoring of MANO infrastructure. Includes MANO license RTU during the term. Priced per 5000 managed elements for a 12 month term.	\$	312,148.15
BC00001277	ADVA Ensemble SaaS MANO Service. Tier 2 managed service includes hosting and 24x7 monitoring of MANO infrastructure. Includes MANO license RTU during the term. Priced per 2500 managed elements for a 12 month term.	\$	290,370.37

BC00001280	ADVA Ensemble SaaS MANO Service. Tier 2 additional Tenant setup, hosting, monitoring. Includes 100 MANO license RTU during the term. Priced per 100 managed elements for a 12 month term.	\$	28,829.63
1091301163	Connector license for advanced routing capabilities including various routing protocols. L2 and encapsulation, IP networking HA, security and QoS options (see datasheet). Licensed up to 1 Gbps and 50 IPSec tunnels for one machine per unit qty.	\$	437.63
1091301167	Connector license for advanced routing capabilities including various routing protocols. L2 and encapsulation, IP networking HA, security and QoS options (see datasheet). Licensed up to 100 Mbps and 10 IPSec tunnels for one machine per unit qty.	\$	163.85
1091301161	Connector license for advanced routing capabilities including various routing protocols. L2 and encapsulation, IP networking HA, security and QoS options (see datasheet). Licensed up to 100 Mbps and 50 IPSec tunnels for one machine per unit qty.	\$	264.44
1091301162	Connector license for advanced routing capabilities including various routing protocols. L2 and encapsulation, IP networking HA, security and QoS options (see datasheet). Licensed up to 500 Mbps and 50 IPSec tunnels for one machine per unit qty.	\$	368.15
1091301164	Connector license for advanced routing capabilities including various routing protocols. L2 and encapsulation, IP networking HA, security and QoS options (see datasheet). Licensed up to 2 Gbps and 50 IPSec tunnels for one machine per unit qty.	\$	565.19
1091301165	Connector license for advanced routing capabilities including various routing protocols. L2 and encapsulation, IP networking HA, security and QoS options (see datasheet). Licensed up to 5 Gbps and 50 IPSec tunnels for one machine per unit qty.	\$	617.04
1091301166	Connector license for advanced routing capabilities including various routing protocols. L2 and encapsulation, IP networking HA, security and QoS options (see datasheet). Licensed up to 10 Gbps and 50 IPSec tunnels for one machine per unit qty.	\$	700.00
1091301180	Gateway license pre-integrated for hubbing Ensemble management or user traffic. Licensed up to 1 Gbps and 100 tunnels.	\$	3,162.96
1091302002-02	Ensemble Connector SW PREINST Rel.20.2.2 Installation SW	\$	-
1091302101-02	Ensemble Connector SW PREINST Rel.21.1.2 Installation SW	\$	-
1091302101-03	Ensemble Connector SW PREINST Rel.21.1.3 Installation SW	\$	-
1091301155-01	Connector performance license supporting VNF acceleration via SR-IOV up to 2 Gbps bi-directional traffic. Support for 10G physical ports and use of advanced data acceleration, including SR-IOV in WAN/LAN segments. Licensed for one machine per unit.	\$	207.41
BC00001209	16 Core - 1 Gbps, perpetual license bundle - Connector base and vhosting license. MANO (HA) - high availability licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 16 core CPU server per unit quantity.	\$	1,145.93
BC00001207	8 Core - 1 Gbps, perpetual license bundle - Connector base and vhosting license. MANO (HA) - high availability licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 8 core CPU server per unit quantity.	\$	700.00
BC00001206	4 Core - 1 Gbps, perpetual license bundle - Connector base and vhosting license. MANO (HA) - high availability licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 4 core CPU server per unit quantity.	\$	492.59
1091302201-01	Ensemble Connector SW PREINST Rel.22.1.1 Installation SW	\$	-
1091302103-01	Ensemble Connector SW PREINST Rel.21.3.1 Installation SW	\$	-
1091301183	Gateway license pre-integrated for hubbing Ensemble management or user traffic. Licensed up to 10 Gbps and 5000 tunnels.	\$	20,222.22
1091301185	Gateway license pre-integrated for hubbing Ensemble management or user traffic. Licensed up to 5 Gbps and 5000 tunnels.	\$	15,140.73
BC00001211	36 Core - 1 Gbps, perpetual license bundle - Connector base and vhosting license. MANO (HA) - high availability licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 36 core CPU server per unit quantity.	\$	1,871.85
BC00001212	4 Core license bundle - 36 month subscription. Connector base with vhosting licenses. MANO (HA) - base and HA licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 4 core CPU server per unit quantity.	\$	738.37

BC00001213	8 Core license bundle - 36 month subscription. Connector base with vhosting licenses. MANO (HA) - base and HA licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 8 core CPU server per unit quantity.	\$	1,070.22
BC00001215	16 Core license bundle - 36 month subscription. Connector base with vhosting licenses. MANO (HA) - base and HA licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 16 core CPU server per unit quantity.	\$	1,783.70
BC00001217	36 Core license bundle - 36 month subscription. Connector base with vhosting licenses. MANO (HA) - base and HA licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 36 core CPU server per unit quantity.	\$	2,945.19
BC00001218	4 Core license bundle - 60 month subscription. Connector base with vhosting licenses. MANO (HA) - base and HA licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 4 core CPU server per unit quantity.	\$	1,120.00
BC00001219	8 Core license bundle - 60 month subscription. Connector base with vhosting licenses. MANO (HA) - base and HA licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 8 core CPU server per unit quantity.	\$	1,624.00
BC00001221	16 Core license bundle - 60 month subscription. Connector base with vhosting licenses. MANO (HA) - base and HA licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 16 core CPU server per unit quantity.	\$	2,706.67
BC00001223	36 Core license bundle - 60 month subscription. Connector base with vhosting licenses. MANO (HA) - base and HA licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 36 core CPU server per unit quantity.	\$	4,469.63
BC00001252	48 Core - 1 Gbps, perpetual license bundle - Connector base and vhosting license. MANO (HA) - high availability licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 48 core CPU server per unit quantity.	\$	2,255.56
1091301195	Gateway license pre-integrated for hubbing Ensemble management or user traffic. Licensed up to 10 Gbps and 7000 tunnels.	\$	28,259.26
BC00001002	16 Core - 36 month subscription - Connector base, vhosting and hybrid WAN failover feature licenses. MANO base Orchestration and Director licenses (non-HA). Licensed for up to 1 Gbps bi-directional traffic on one 16 core CPU server per unit quantity.	\$	1,742.22
BC00001210	24 Core - 1 Gbps, perpetual license bundle - Connector base and vhosting license. MANO (HA) - high availability licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 24 core CPU server per unit quantity.	\$	1,560.74
1091301186	Gateway license pre-integrated for hubbing Ensemble management or user traffic. Licensed up to 2 Gbps and 2000 tunnels.	\$	6,928.39
1091301192	Connector license for advanced routing capabilities including various routing protocols. L2 and encapsulation, IP networking HA, security and QoS options (see datasheet). Licensed up to 2 Gbps and 10 IPSec tunnels for one machine per unit qty.	\$	466.67
BC00001220	12 Core license bundle - 60 month subscription. Connector base with vhosting licenses. MANO (HA) - base and HA licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 12 core CPU server per unit quantity.	\$	2,177.78
1091301184	Gateway license pre-integrated for hubbing Ensemble management or user traffic. Licensed up to 25 Gbps and 10000 tunnels.	\$	34,222.22
BC00001182	4 Core license bundle - 100 Mbps - 60 month subscription. Connector base, vHosting, and LTE licenses. Director and high availability licenses. Licensed for up to 100 Mbps bi-directional traffic on one 4 Core CPU server per unit quantity.	\$	844.15
BC00001222	24 Core license bundle - 60 month subscription. Connector base with vhosting licenses. MANO (HA) - base and HA licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 24 core CPU server per unit quantity.	\$	3,714.67
BC00001180	4 Core license bundle - 60 month subscription. Connector base with vHosting and LTE licenses. Director and high availability licenses. Licensed for up to 1 Gbps bi-directional traffic on one 4 Core CPU server per unit quantity.	\$	1,057.78
1091301003-01	Connector base license with APIs, 1 Gbps bi-directional traffic, L2 data path with CE2.0 functionality, L3 IP Classification / IP Forwarding, VRF & BGP support and IKE/IPsec on management plane. Licensed for one machine per unit qty.	\$	202.22

1091301454-01	Orchestration base license includes VNFM and NFVO feature set. Licensed per managed element.	\$	67.41
1091303003-01	Ensemble Director base license, includes management and Zero Touch feature set. Licensed per managed element.	\$	93.33
1091303004-01	Ensemble Director high availability license feature uplift. Licensed per managed element.	\$	25.91
1089002202-01	1515 chassis, 4 Core Intel C3558, DDR4-2133 16GB DIMM, 128GB SSD, includes 4 x Gbe RJ45 ports, 2 x SFP ports. LTE enabled - Sierra-7430 module installed.	\$	3,318.52
1089002205-01	1515 chassis, 8 Core Intel C3758, 2xDDR4-2133 16GB DIMM, 512GB SSD, includes 6 x Gbe RJ45 ports, 2 x SFP ports. LTE enabled - Sierra-7430 module installed.	\$	4,796.30
BC00001184	Subscription 12 month term (with Support) - VNF via SR-IOV up to 2 Gbps bi-directional traffic. 10G physical ports and use of advanced data acceleration, including SR-IOV in WAN/LAN segments. Licensed for one machine per unit.	\$	133.66
1091302002-01	Ensemble Connector SW PREINST Rel.20.2.1 Installation SW	\$	-
BC00001191	Subscription 60 month term (with Support) - vHosting platform feature set up to 12 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	1,234.07
BC00000922	Ensemble Director Base and HA license, includes management and Zero Touch feature set. Licensed per managed element.	\$	119.26
BC00001214	12 Core license bundle - 36 month subscription. Connector base with vhosting licenses. MANO (HA) - base and HA licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 12 core CPU server per unit quantity.	\$	1,435.26
BC00001181	4 Core license bundle - 60 month subscription. Connector base and vHosting licenses. Director and high availability licenses. Licensed for up to 1 Gbps bi-directional traffic on one 4 Core CPU server per unit quantity.	\$	957.19
1091301191	Connector license for advanced routing capabilities including various routing protocols. L2 and encapsulation, IP networking HA, security and QoS options (see datasheet). Licensed up to 1 Gbps and 10 IPSec tunnels for one machine per unit qty.	\$	337.04
BC00001208	12 Core - 1 Gbps, perpetual license bundle - Connector base and vhosting license. MANO (HA) - high availability licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 12 core CPU server per unit quantity.	\$	928.15
BC00001195	Subscription 12 month (with support): Connector SMB base license -limit of 100 Mbps and 4-core server. License: APIs, L2 data path with CE2.0 features, L3 IP Class'n / IP Forwarding, VRF & BGP and IKE/IPsec on mgt plane. Licensed for one machine.	\$	120.30
BC00001190	Subscription 36 month term (with Support) - vHosting platform feature set up to 12 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	813.04
BC00001192	Subscription 12 month term (with Support) - vHosting platform feature set up to 24 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	735.14
BC00001193	Subscription 36 month term (with Support) - vHosting platform feature set up to 24 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	1,825.19
1091301194	Connector license for advanced routing capabilities including various routing protocols. L2 and encapsulation, IP networking HA, security and QoS options (see datasheet). Licensed up to 10 Gbps and 10 IPSec tunnels for one machine per unit qty.	\$	596.30
1091302001-01	Ensemble Connector SW PREINST Rel.20.1.1 Installation SW	\$	-
BC00001183	4 Core license bundle - 100 Mbps - 60 month subscription. Connector base and vHosting licenses. Director and high availability licenses. Licensed for up to 100 Mbps bi-directional traffic on one 4 Core CPU server per unit quantity.	\$	743.56
1091301193	Connector license for advanced routing capabilities including various routing protocols. L2 and encapsulation, IP networking HA, security and QoS options (see datasheet). Licensed up to 5 Gbps and 10 IPSec tunnels for one machine per unit qty.	\$	518.52
BC00001185	Subscription 36 month term (with Support) - VNF via SR-IOV up to 2 Gbps bi-directional traffic. 10G physical ports and use of advanced data acceleration, including SR-IOV in WAN/LAN segments. Licensed for one machine per unit.	\$	331.85
BC00001194	Subscription 60 month term (with Support) - vHosting platform feature set up to 24 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	2,770.37



BC00001189	Subscription 12 month term (with Support) - vHosting platform feature set up to 12 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	327.48
BC00001186	Subscription 60 month term (with Support) - VNF via SR-IOV up to 2 Gbps bi-directional traffic. 10G physical ports and use of advanced data acceleration, including SR-IOV in WAN/LAN segments. Licensed for one machine per unit.	\$	503.70
BC00001216	24 Core license bundle - 36 month subscription. Connector base with vhosting licenses. MANO (HA) - base and HA licenses for Orchestrator and Director. Licensed for up to 1 Gbps bi-directional traffic on one 24 core CPU server per unit quantity.	\$	2,447.41
1091301197	Gateway license pre-integrated for hubbing Ensemble management or user traffic. Licensed up to 1 Gbps and 1000 tunnels.	\$	5,288.89
1091301196	Gateway license pre-integrated for hubbing Ensemble management or user traffic. Licensed up to 1 Gbps and 500 tunnels.	\$	4,158.52
1089002047-01	1515 chassis, 8 Core Intel C3758, 2xDDR4-2133 16GB DIMM, 512GB SSD, includes 6 x Gbe RJ45 ports, 2 x SFP ports. LTE enabled - Sierra-7455 module installed.	\$	4,796.59
BC00001271	ADVA Ensemble SaaS MANO Service. Tier 1 managed service includes hosting and 24x7 monitoring of MANO infrastructure. Includes MANO license RTU during the term. Priced per 1000 managed elements for a 12 month term.	\$	108,888.89
1089002035-01	1515 chassis, 4 Core Intel C3558, DDR4-2133 8GB DIMM, 128GB SSD, includes 4 x Gbe RJ45 ports, 2 x SFP ports.	\$	2,281.48
BC00001001	8 Core - 36 month subscription - Connector base, vhosting and hybrid WAN failover feature licenses. MANO base Orchestration and Director licenses (non-HA). Licensed for up to 1 Gbps bi-directional traffic on one 8 core CPU server per unit quantity.	\$	1,028.74
1091301154-01	Connector high bandwidth performance license. Enables support for 10G physical ports and use of advanced data acceleration features, including SR-IOV in WAN/LAN segments. Licensed for one machine per unit qty.	\$	414.81
BC00001000	4 Core - 36 month subscription - Connector base, vhosting and hybrid WAN failover feature licenses. MANO base Orchestration and Director licenses (non-HA). Licensed for up to 1 Gbps bi-directional traffic on one 4 core CPU server per unit quantity.	\$	696.89
BC00001003	4 Core - 12 month subscription - Connector base, vhosting and hybrid WAN failover feature licenses. MANO base Orchestration and Director licenses (non-HA). Licensed for up to 1 Gbps bi-directional traffic on one 4 core CPU server per unit quantity.	\$	281.04
BC00001004	8 Core - 12 month subscription - Connector base, vhosting and hybrid WAN failover feature licenses. MANO base Orchestration and Director licenses (non-HA). Licensed for up to 1 Gbps bi-directional traffic on one 8 core CPU server per unit quantity.	\$	414.81
BC00001028	Subscription 12 month term (with Support) - Connector support for management and datapath over LTE access networks. Licensed for one machine per unit qty.	\$	26.74
BC00001029	Subscription 12 month term (with Support) - Support for Connector internal local router capabilities, including NAT, IP Passthrough and Hybrid WAN Failover. Licensed for one machine per unit quantity.	\$	25.91
BC00001030	Subscription 12 month term (with support) - Orchestration base feature set, includes VNFM and NFVO feature set. Licensed per managed element.	\$	43.44
BC00001032	Subscription 12 month term (with support) - Ensemble Director base license, includes management and Zero Touch feature set. Licensed per managed element.	\$	60.15
BC00001033	Subscription 12 month term (with support) - Ensemble Director high availability feature uplift. Licensed per managed element.	\$	16.71
BC00001039	Management with Base Orchestration and Director licenses, including high availability feature support. Licensed for one CPU machine per unit quantity.	\$	186.67
1089002203-01	1515 chassis, 8 Core Intel C3758, E4DDR4-2133 16GB DIMM, 256GB SSD, includes 6 x Gbe RJ45 ports, 2 x SFP ports. LTE enabled - Sierra-7430 module installed.	\$	3,551.85
BC00001270	ADVA Ensemble SaaS MANO Service. Tier 1 managed service includes hosting and 24x7 monitoring of MANO infrastructure. Includes MANO license RTU during the term. Priced per 500 managed elements for a 12 month term.	\$	75,641.48
BC00001005	16 Core - 12 month subscription - Connector base, vhosting and hybrid WAN failover feature licenses. MANO base Orchestration and Director licenses (non-HA). Licensed for up to 1 Gbps bi-directional traffic on one 16 core CPU server per unit quantity.	\$	700.00

BC00001043	Subscription 12 month (with Support) Connector base license with APIs, 1 Gbps bi-directional traffic, L2 data path with CE2.0 functionality, L3 IP Class'n /IP Forwarding, VRF & BGP support and IKE/IPsec on management plane. Licensed for one machine.	\$	130.33
BC00001044	Subscription 12 month term (with Support) - vHosting platform feature set up to 4 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	46.79
BC00001045	Subscription 12 month term (with Support) - vHosting platform feature set up to 8 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	180.44
BC00001046	Subscription 12 month term (with Support) - vHosting platform feature set up to 16 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	467.82
BC00001269	ADVA Ensemble SaaS MANO Service. Tier 1 managed service includes hosting and 24x7 monitoring of MANO infrastructure. Includes MANO license RTU during the term. Priced per 100 managed elements for a 12 month term.	\$	53,682.22
1089002199-01	1515 chassis, 8 Core Intel C3758, E4DDR4-2133 16GB DIMM, 256GB SSD, includes 6 x Gbe RJ45 ports, 2 x SFP ports. LTE enabled - Sierra-7455 module installed.	\$	3,551.85
1091303185-01	Connector SMB, throughput limit to 50 Mbps, max 4-core server. License with APIs, L2 data path with CE2.0 features, L3 IP Class'n / IP Forwarding, VRF & BGP and IKE/IPsec on mgt plane. Licensed for one machine per unit qty.	\$	114.07
1091303186-01	Connector SMB, throughput limit to 100 Mbps, max 4-core server. License with APIs, L2 data path with CE2.0 features, L3 IP Class'n / IP Forwarding, VRF & BGP and IKE/IPsec on mgt plane. Licensed for one machine per unit qty.	\$	186.67
BC00000817	Subscription 36 month (with Support) Connector base license with APIs, 1 Gbps bi-directional traffic, L2 data path with CE2.0 functionality, L3 IP Class'n /IP Forwarding, VRF & BGP support and IKE/IPsec on management plane. Licensed for one machine.	\$	323.56
BC00000818	Subscription 60 month (with Support) Connector base license with APIs, 1 Gbps bi-directional traffic, L2 data path with CE2.0 functionality, L3 IP Class'n /IP Forwarding, VRF & BGP support and IKE/IPsec on management plane. Licensed for one machine.	\$	491.11
BC00000819	Subscription 36 month term (with Support) - vHosting platform feature set up to 4 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	116.15
BC00000820	Subscription 60 month term (with Support) - vHosting platform feature set up to 4 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	176.30
BC00000823	Subscription 36 month term (with Support) - vHosting platform feature set up to 16 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	1,161.48
BC00000821	Subscription 36 month term (with Support)- vHosting platform feature set up to 8 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	448.00
BC00000822	Subscription 60 month term (with Support) - vHosting platform feature set up to 8 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	680.00
BC00000825	Subscription 36 month term (with Support) - vHosting platform feature set up to 36 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	2,322.96
BC00000824	Subscription 60 month term (with Support) - vHosting platform feature set up to 16 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	1,762.96
BC00000828	Subscription 60 month term (with Support) - Connector support for management and datapath over LTE access networks. Licensed for one machine per unit qty.	\$	100.74
BC00000826	Subscription 60 month term (with Support) - vHosting platform feature set up to 36 physical cores (including Connector footprint). Licensed for one machine per unit qty.	\$	3,525.93
BC00000827	Subscription 36 month term (with Support) - Connector support for management and datapath over LTE access networks. Licensed for one machine per unit qty.	\$	66.37
BC00000850	Subscription 36 month term (with Support) - Support for Connector internal local router capabilities, including NAT, IP Passthrough and Hybrid WAN Failover. Licensed for one machine per unit quantity.	\$	5.19
BC00000851	Subscription 60 month term (with Support) - Support for Connector internal local router capabilities, including NAT, IP Passthrough and Hybrid WAN Failover. Licensed for one machine per unit quantity.	\$	51.85
BC00000858	Subscription 36 month (with support): Connector SMB base license -limit of 50 Mbps and 4-core server. License: APIs, L2 data path with CE2.0 features, L3 IP Class'n / IP Forwarding, VRF & BGP and IKE/IPsec on mgt plane. Licensed for one machine.	\$	182.52

BC00000863	Subscription 60 month term (with support) - Orchestration base feature set, includes VNFM and NFVO feature set. Licensed per managed element.	\$	163.70
BC00000860	Subscription 36 month (with support): Connector SMB base license -limit of 100 Mbps and 4-core server. License: APIs, L2 data path with CE2.0 features, L3 IP Class'n / IP Forwarding, VRF & BGP and IKE/IPsec on mgt plane. Licensed for one machine.	\$	298.67
BC00000859	Subscription 60 month (with support): Connector SMB base license -limit of 50 Mbps and 4-core server. License: APIs, L2 data path with CE2.0 features, L3 IP Class'n / IP Forwarding, VRF & BGP and IKE/IPsec on mgt plane. Licensed for one machine.	\$	277.04
BC00000861	Subscription 60 month (with support): Connector SMB base license -limit of 100 Mbps and 4-core server. License: APIs, L2 data path with CE2.0 features, L3 IP Class'n / IP Forwarding, VRF & BGP and IKE/IPsec on mgt plane. Licensed for one machine.	\$	453.33
BC00000862	Subscription 36 month term (with support) - Orchestration base feature set, includes VNFM and NFVO feature set. Licensed per managed element.	\$	107.85
BC00000866	Subscription 36 month term (with support) - Ensemble Director base license, includes management and Zero Touch feature set. Licensed per managed element.	\$	149.33
BC00000869	Subscription 60 month term (with support) - Ensemble Director high availability feature uplift. Licensed per managed element.	\$	62.96
BC00000867	Subscription 60 month term (with support) - Ensemble Director base license, includes management and Zero Touch feature set. Licensed per managed element.	\$	226.67
BC00000868	Subscription 36 month term (with support) - Ensemble Director high availability feature uplift. Licensed per managed element.	\$	41.48
1089002046-01	1515 chassis, 8 Core Intel C3758, 2xDDR4-2133 8GB DIMM, 128GB SSD, includes 6 x Gbe RJ45 ports, 2 x SFP ports. LTE enabled - Sierra-7455 module installed.	\$	3,552.27
1089002048-01	1515 chassis, 4 Core Intel C3558, 2xDDR4-2133 8GB DIMM, 128GB SSD, includes 4 x Gbe RJ45 ports, 2 x SFP ports. LTE enabled - Sierra-7455 module installed.	\$	3,318.50
1089002200-01	1515 series rack mount kit (single unit)	\$	136.89
1089002049-01	1515 chassis, 8 Core Intel C3758, 2x E4DDR4-2133 16GB DIMM, 256GB SSD, includes 6 x Gbe RJ45 ports, 2 x SFP ports. LTE enabled - Sierra-7455 module installed.	\$	4,666.65
1089002201-01	1515 series wall mount kit (single unit)	\$	136.89
BC00001385	Ensemble Activator bundle includes whitebox license, control plane, BC Sync, whitebox advance control plane Key and 100G, each license with 2 Keys	\$	10,080.00
BC00001386	Ensemble Activator bundle includes whitebox license, control plane, BC Sync, whitebox advance control plane Key and 400G, each license with 2 Keys	\$	22,026.67
1091489200-01	FSP 150-Z4806V2 Base SW features, Must order one License for each Z4806V2 chassis	\$	2,240.00
BC00001384	Ensemble Activator bundle includes whitebox license, control plane, BC Sync, whitebox advance control plane Key and 400G	\$	11,013.33
BC00001383	Ensemble Activator bundle includes whitebox license, control plane, BC Sync, whitebox advance control plane Key and 100G	\$	5,040.00
1091489501-01	Ensemble Activator for Whitebox 480G Bandwidth Capacity Key. Requires ACTVR/WB/SW/100G/BASE/KEY to be installed.	\$	5,973.33
1091489503-01	Ensemble Activator for whitebox IP control plane Key	\$	747.02
1091489504-01	Ensemble Activator for whitebox advance control plane Key	\$	1,492.96
1091489500-01	Ensemble Activator for Whitebox Base key that provides basic functionality and 120G Bandwidth capacity. Must order one License for each device/chassis	\$	2,240.00
1091489505-01	Ensemble Activator for whitebox BC Sync Key	\$	560.00
1091489202-01	FSP 150-Z4806V2 L3 License Key. F150/Z4806/SW/BASE/KEY is mandatory to use this key	\$	11,200.00
1091489203-01	FSP 150-Z4806 MPLS License Key. F150/Z4806/L3/KEY is mandatory to use this key	\$	5,600.00
1091489201-01	FSP 150-Z4806V2 Full Bandwidth Capacity License Key. F150/Z4806/400G/KEY is mandatory to use this key	\$	8,960.00
1091489205-01	FSP 150-Z4806V2 for 480G Bandwidth Capacity License Key. F150/Z4806/200G/KEY is mandatory to use this key	\$	2,240.00
1091489502-01	Ensemble Activator for Whitebox 800G Bandwidth Capacity key. Requires ACTVR/WB/400G/KEY to be installed.	\$	8,960.00

91003751	Ensemble Controller Connection License for one shelf of FAS ALM 64, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	881.75
91003851	Ensemble Controller Connection License for one shelf of FAS ALM 64 UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	298.13
1091002900	Ensemble Bandwidth Manager, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	13,675.20
1091002905	Upgrade of Ensemble Bandwidth Manager, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	5,014.24
1091002680	Ensemble Controller Connection Licenses for a network elements of type Cesium Clock, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	1,169.53
1091002586	Ensemble Controller Connection Licenses for a network elements of type FSP 150 CP, CC, Mx, GE114Pro, XG100, XG300, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	164.62
1091002670	Ensemble Controller Connection Licenses for a network elements of type OSA 5548C SSU/TSG (E200/E60), OSA5335 PTP GM and OSA 5440, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	2,340.21
1091002652	Ensemble Controller Connection Licenses for a network elements of type OSA542x, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	191.08
91001750	Optional license per ENC server for stand-by server usage, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	20,056.96
91003150	Ensemble Controller Connection License for FSP 3000R7, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	2,832.87
91003520	Ensemble Controller Connection License for one slimline shelf of FSP 3000 C (1HU or 2HU), license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	1,025.64
91003620	Ensemble Controller Connection License for one slimline shelf of FSP 3000C (1HU or 2HU) UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	399.44
1091002089	Ensemble Controller Connection Licenses for a tiny network element of type FSP 150 (GE101Pro) UPDATE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	19.57
1091002084	Ensemble Controller Connection Licenses for a tiny network element of type FSP 150 (GE101Pro), license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	49.50
1091002625	Upgrade for Ensemble Sync Director Server License, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	2,393.16
1091002620	Ensemble Sync Director Server License, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	5,849.94
1091002630	Ensemble Sync Director Connection License for small Access devices/Edge PTP GM, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	62.16
1091002640	Ensemble Sync Director Connection License Big, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	1,276.58
1091002635	Ensemble Sync Director Connection License for small Access devices/Edge PTP GM UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	20.73
1091002645	Upgrade for Ensemble Sync Director Connection License Big, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	425.91
1091002657	Ensemble Controller Connection Licenses for a network elements of type OSA542x UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	66.77
1091002637	FS Ensemble Sync Director Connection License for Medium/Large PTP GMs and SSU/TSGs UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	34.55
91003160	Ensemble Controller Connection Licenses for one shelf of type FSP 3000R7 small only, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	478.86
1091002675	Ensemble Controller Connection Licenses for a network elements of type OSA 5548C SSU/TSG (E200/E60), OSA5335 PTP GM and OSA 5440 UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	702.18
91003750	Ensemble Controller Connection License for one shelf of FAS ALM, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	455.84

1091002800	FSP Network Manager OTN Service Layer License, license shipped in paper form, applicable to ENC 10.5 and prior versions	\$	9,116.79
91003250	Ensemble Controller Connection Licenses for one shelf of type FSP 3000R7 UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	946.21
91003260	Ensemble Controller Connection Licenses for one shelf of type FSP 3000R7 small UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	160.00
91004100	Ensemble Controller Connection License for Generic SNMP NE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	181.88
91004200	Ensemble Controller Connection License for Generic SNMP NE UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	61.01
1091002500	Ensemble Optical Director License for Active WDM Provisioning, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	22,792.00
1091002082	Ensemble Controller Connection Licenses for a network element of type FSP 150CM, FSP 150CC-XG210 or HN 4000, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	637.72
1091002083	Ensemble Controller Connection Licenses for a network element of type FSP 150EG-X or FSP 150EG-M, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	4,512.36
1091002087	Ensemble Controller Connection Licenses for a network element of type FSP 150CM, FSP 150CC-XG210 or HN 4000 UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	218.71
1091002088	Ensemble Controller Connection Licenses for a network element of type FSP 150EG-X or FSP 150EG-M UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	1,504.50
91003500	Ensemble Controller Connection License for one large shelf of FSP 3000 C (12HU), license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	10,028.47
1091002632	Ensemble Sync Director Connection License for Medium/Large PTP GMs and SSU/TSGs, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	95.56
1091002530	Upgrade for Ensemble Optical Director License for Active WDM Provisioning, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	8,205.13
1091002705	Upgrade of Ensemble Command Based Manager, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	4,558.40
1091002605	Upgrade Ensemble ConnectGuard Director, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	5,166.19
1091002805	Upgrade of FSP Network Manager OTN Service Layer License, license shipped in paper form, applicable to FSP NM 10.5 and prior versions	\$	3,418.80
1091002600	Ensemble ConnectGuard Director, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	13,675.20
1091002650	Ensemble Controller Connection Licenses for a network elements of type OSA540x or OSA541x, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	105.90
1091002665	Ensemble Controller Connection License for a network elements of type PTP GM and NTP Server OSA 5430 and PTP GM OSA 5331 UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	249.79
1091002655	Ensemble Controller Connection Licenses for a network elements of type OSA540x or OSA541x UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	36.83
1091002660	Ensemble Controller Connection License for a network elements of type PTP GM and NTP Server OSA 5430 and PTP GM OSA 5331, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	744.77
91003270	Ensemble Controller Connection License for one shelf of type FSP 3000R7 big (9 HU) UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	1,504.50
91003170	Ensemble Controller Connection License for one shelf of type FSP 3000R7 big (9 HU), license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	4,558.40
1091002701	Ensemble Command Based Manager Connection Licenses for a small network elements of type FSP 150 (GE101Pro, GO102Pro, GE 201, GE112 or GE114) and OSA54xx, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	27.63

1091002702	Ensemble Command Based Manager Connection Licenses for a network element of type FSP 150CM or FSP 150CC-XG210, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	160.00
1091002706	Ensemble Command Based Manager Connection Licenses for a small network elements of type FSP 150 (GE101Pro, GO102Pro, GE 201, GE112 or GE114) UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	9.21
1091002707	Ensemble Command Based Manager Connection Licenses for a network element of type FSP 150CM or FSP 150CC-XG210 UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	55.26
1091002709	Ensemble Command Based Manager Connection Licenses for a network elements of type FSP 150 CC (GE206, 825, T-series), GE114Pro, XG100 UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	14.96
1091002704	Ensemble Command Based Manager Connection Licenses for a network elements of type FSP 150 CC (GE206, 825, T-series), GE114Pro, XG100, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	41.44
1091002703	Ensemble Command Based Manager Connection Licenses for a network element of type FSP 150EG-X or FSP 150EG-M, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	911.67
1091002708	Ensemble Command Based Manager Connection Licenses for a network element of type FSP 150EG-X or FSP 150EG-M UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	308.50
1091002285	Specific Development Service for FSP Network Manager	\$	-
91003850	Ensemble Controller Connection License for one shelf of FAS ALM UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	151.94
1091002081	Ensemble Controller Connection Licenses for a small network elements of type FSP 150 (GO102Pro, GE 201, GE112 or GE114) or HN400, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	90.93
1091002086	Ensemble Controller Connection Licenses for a small network elements of type FSP 150 (GO102Pro, GE 201, GE112 or GE114) or HN400 UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	32.24
1091002581	Ensemble Controller Connection Licenses for a network elements of type FSP 150 CP, CC, Mx, GE114Pro, XG100, XG300 UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	57.56
1091002700	Ensemble Command Based Manager, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	12,033.72
91003510	Ensemble Controller Connection License for one compact shelf of FSP 3000 C (3HU or 4HU), license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	3,532.76
91003550	Ensemble Controller Connection License for one QuadFlex Card (MP-2B4CT), license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	5,014.24
91003600	Ensemble Controller Connection License for one large shelf of FSP 3000 C (12HU) UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	3,532.76
91003650	Ensemble Controller Connection License for one QuadFlex Card (MP-2B4CT) UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	1,800.34
91003610	Ensemble Controller Connection License for one compact shelf of FSP 3000 C (3HU or 4HU) UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	1,253.56
1091002721	Ensemble Controller Connection Licenses for a network elements of type ADVA 150-XG400, FSP 150-Z UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	820.74
1091002720	Ensemble Controller Connection Licenses for a network elements of type ADVA 150-XG400, FSP 150-Z, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	2,507.13
1091002685	Ensemble Controller Connection Licenses for a network elements of type Cesium Clock UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	409.79
1091007035	Optical Connection UPGRADE License F7 Large: ENC License for one shelf of type FSP 3000R7 big (9 HU) UPGRADE from 12.X or higher to next major release	\$	1,173.38

1091006135	ENC Instance Upgrade License to upgrade from release 12.X to 13.X; any OS; Media is NOT included, order separately when required	\$	978.44
1091007015	Optical Connection UPGRADE License F7 Small: ENC License for one shelf of type FSP 3000R7 small UPGRADE from 12.X or higher to next major release	\$	135.38
1091007025	Optical Connection UPGRADE License F7 Medium: ENC License for one shelf of type FSP 3000R7 UPGRADE from version 12.X or higher to next major release	\$	812.33
1091007055	Optical Connection UPGRADE License F8 Small: ENC License for one small modular shelf of FSP 3000 C (1HU or 2HU or Teraflex) UPGRADE from 12.X or higher to next major release	\$	270.79
1091007065	Optical Connection UPGRADE License F8 Medium: ENC License for one compact shelf of FSP 3000 C (3HU or 4HU) UPGRADE from 12.X or higher to next major release	\$	992.84
1091007075	Optical Connection UPGRADE License F8 Large: ENC License for one large shelf of FSP 3000 C (12HU) UPGRADE from 12.X or higher to next major release	\$	2,707.79
1091007085	ENC UPGRADE License for one High Speed Mux Card, such as QuadFlex (MP-2B4CT) and its variants and Teraflex sleds (e.g. MP-2D12CT or T-MP-2D8CT or T-MP-2D3DT) and its variants, or OpenFab1200 (OF-2D16DCT) from 12.X or higher to next major release	\$	1,489.30
1091007115	Optical Connection License ACC Small: ENC License for one shelf of type FSP 3000 ACC small UPGRADE from 12.X or higher to next major release	\$	153.42
1091007125	Optical Connection License ACC Medium: ENC License for FSP 3000 ACC UPGRADE from 12.X or higher to next major release	\$	586.70
1091007135	Optical Connection License ACC Large: ENC License for one large shelf type FSP 3000ACC UPGRADE from 12.X or higher to next major release	\$	992.84
1091007215	Packet Connection Upgrade License Eth Extra Small: ENC License for a tiny network element of type FSP 150 (GE101Pro) UPGRADE from 12.X or higher to next major release	\$	14.43
1091007225	Packet Connection Upgrade License Eth Small: ENC License for a small network elements of type FSP 150 (Gx102Pro, GE11x[Pro], GE104, GE201) OS606 or HN400, UPGRADE from 12.X or higher to next major release	\$	27.11
1091007235	Packet Connection Upgrade License Eth Medium: ENC License for a network elements of type FSP 150CP, CC, MX, GE206, XG1xx[Pro], XG304 or OS900 series, UPGRADE from 12.X or higher to next major release	\$	45.13
1091007245	Packet Connection Upgrade License Eth Large: ENC License for a network element of type FSP 150CM, XG210, XG308, XG312, XG404, XG418, HN 4000 or OS9000 series, UPGRADE from 12.X or higher to next major release	\$	180.52
1091007255	Packet Connection Upgrade License Eth Extra Large: ENC License for a network element of type FSP150 XG480, EG-Z4806, EG-X or EG-M, UPGRADE from 12.X or higher to next major release	\$	466.67
1091007315	Sync Connection Upgrade License OSA Extra Small: ENC License for a network elements of type OSA540x or OSA5410 or 5411 UPGRADE from 12.X or higher to next major release	\$	30.22
1091007325	Sync Connection Upgrade License OSA Small: ENC License for a network elements of type OSA542x or OSA5412 UPGRADE from 12.X or higher to next major release	\$	50.36
1091007335	Sync Connection Upgrade License OSA Medium: ENC License for a network elements of type PTP GM and NTP Server OSA 5430 and PTP GM OSA 5331 UPGRADE from 12.X or higher to next major release	\$	201.45
1091007345	Sync Connection Upgrade License OSA Large: ENC License for a network elements of type Cesium Clock UPGRADE from 12.X or higher to next major release	\$	302.18
1091007355	Sync Connection Upgrade License OSA Extra Large: ENC License for a network elements of type OSA 5548C SSU/TSG (E200/E60), OSA5335 PTP GM and OSA 5440 UPGRADE from 12.X or higher to next major release	\$	644.64
1091007435	Fiber Connection Upgrade License ALM Medium: ENC License for one shelf of FAS ALM or 96-port extender shelf UPGRADE from 12.X or higher to next major release	\$	176.30
BC00001088	Optical Connection License F7 Small: ENC License for one shelf of type FSP 3000R7 small only; including Ensemble Optical Director Connection License; for release 13 and higher	\$	1,321.39
BC00001089	Optical Connection License F7 Medium: ENC License for FSP 3000R7; including Ensemble Optical Director Connection License; for release 13 and higher	\$	5,848.80

BC00001090	Optical Connection License F7 Large: ENC License for one shelf of type FSP 3000R7 large (9 HU); including Ensemble Optical Director Connection License; for release 13 and higher	\$	9,889.04
BC00001091	Optical Connection License F8 Small: ENC License for one slimline shelf of FSP 3000 C (1HU or 2HU); including Ensemble Optical Director Connection License; for release 13 and higher	\$	1,862.99
BC00001092	Optical Connection License F8 Medium: ENC License for one compact shelf of FSP 3000 C (3HU or 4HU); including Ensemble Optical Director Connection License; for release 13 and higher	\$	6,570.81
BC00001093	Optical Connection License F8 Large: ENC License for one large shelf of FSP 3000 C (12HU); including Ensemble Optical Director Connection License; for release 13 and higher	\$	16,026.87
BC00001098	Fiber Connection License ALM Medium: ENC License for one shelf of FAS ALM; incl Ensemble Fiber Director Connection License; for release 13 and higher	\$	1,125.17
BC00001099	Fiber Connection License ALM Large: ENC License for one shelf of FAS ALM 64; incl Ensemble Fiber Director Connection License; for release 13 and higher	\$	2,426.67
BC00001100	Packet Connection License Eth Extra Small: ENC License for a tiny network element of type FSP 150 (GE101Pro); including Packet Director Connection License; for release 13 and higher	\$	93.87
BC00001101	Packet Connection License Eth Small: ENC License for a small network elements of type FSP 150 (GO102Pro, GE1xx(pro), GE 201) OS606 or HN400; including Packet Director Connection License; for release 13 and higher	\$	173.30
BC00001102	Packet Connection License Eth Medium: ENC License for a network elements of type FSP 150CP, CC, MX, XG1xx(pro), XG304 or OS900 series; including Packet Director Connection License; for release 13 and higher	\$	288.83
BC00001103	Packet Connection License Eth Large: ENC License for a network element of type FSP 150CM, XG210, XG308, HN 4000 or OS9000 series; including Packet Director Connection License; for release 13 and higher	\$	1,047.01
BC00001104	Packet Connection License Eth Extra Large: ENC License for a network element of type FSP XG400, Z4806, EG-X or EG-M; including Packet Director Connection License; for release 13 and higher	\$	2,737.78
BC00001105	Sync Connection License OSA Extra Small: ENC License for a network elements of type OSA540x or OSA541x; including Sync Director Connection License; for release 13 and higher	\$	212.92
BC00001106	Sync Connection License OSA Small: ENC License for a network elements of type OSA542x; including Sync Director Connection License; for release 13 and higher	\$	515.67
BC00001107	Sync Connection License OSA Medium: ENC License for a network elements of type PTP GM and NTP Server OSA 5430 and PTP GM OSA 5331; including Sync Director Connection License; for release 13 and higher	\$	1,238.24
BC00001108	Sync Connection License OSA Large: ENC License for a network elements of type Cesium Clock; including Sync Director Connection License; for release 13 and higher	\$	1,772.71
BC00001109	Sync Connection License OSA Extra Large: ENC License for a network elements of type OSA 5548C SSU/TSG (E200/E60), OSA5335 PTP GM and OSA 5440; including Sync Director Connection License; for release 13 and higher	\$	3,620.09
1091009455	Sync GNSS Assurance Connection UPGRADE from 12.X or higher to next major release License OSA Extra Large: for a network elements of type OSA 5548C SSU/TSG (E200/E60), OSA5335 PTP GM and OSA 5440, TP5000 (Microsemi)	\$	248.79
1091007445	Fiber Connection Upgrade License ALM Large: ENC License for one shelf of FAS ALM 64 UPGRADE from 12.X or higher to next major release	\$	352.59
1091007905	3rd Party Connection Upgrade License Generic SNMP: ENC License for Generic SNMP NE UPGRADE from 12.X or higher to next major release	\$	54.15
1091007915	Connection Upgrade License FSP 1500: ENC License for a network element of type FSP 1500, UPGRADE from 12.X or higher to next major release	\$	57.56
1091008015	Upgrade license for an ENC server for stand-by server usage UPGRADE from 12.X or higher to next major release	\$	5,415.56



1091008025	Streaming Replication HA UPGRADE for ENC server UPGRADE from 12.X or higher to next major release	\$	2.30
1091008035	Upgrade Ensemble ConnectGuard Director UPGRADE from 12.X or higher to next major release	\$	3,971.41
1091008045	Upgrade of Ensemble Bandwidth Manager UPGRADE from 12.X or higher to next major release	\$	3,971.41
1091008055	Upgrade of Ensemble Command Based Manager UPGRADE from 12.X or higher to next major release	\$	4,489.33
1091008115	Upgrade for Ensemble Director T-API SDN northbound interface License UPGRADE from 12.X or higher to next major release	\$	48,138.15
1091008135	Optional license per ENC server for north bound MTOSI interface UPGRADE from 12.X or higher to next major release	\$	48,138.15
1091008315	Ensemble Sync Assurance Manager for GNSS Upgrade License: Upgrade for Ensemble Assurance for GNSS Manager from 12.X or higher to next major release	\$	1,564.87
1091008325	Ensemble Sync Assurance Manager for PTP Upgrade License: Upgrade for Ensemble Assurance for PTP Manager from 12.X or higher to next major release	\$	1,611.56
1091008915	Ensemble Optical Director Upgrade License: Upgrade for Ensemble Optical Director License for Active WDM Provisioning from 12.X or higher to next major release	\$	6,498.68
1091008925	Ensemble Packet Director Upgrade License: Upgrade for Ensemble Packet Director License for Active Ethernet Provisioning from 12.X or higher to next major release	\$	9,151.33
1091008935	Ensemble Sync Director Upgrade License: Upgrade for Ensemble Sync Director Server License from 12.X or higher to next major release	\$	1,611.56
1091008945	Ensemble Fiber Director Upgrade License: Upgrade for Ensemble Fiber Director from 12.X or higher to next major release	\$	1,047.41
1091009225	Packet Director Upgrade Connection Licenses Small: Required for one Ethernet device of size S, UPGRADE from 12.X or higher to next major release	\$	16.25
1091009245	Packet Director Upgrade Connection Licenses Large: Required for one Ethernet device of size L, UPGRADE from 12.X or higher to next major release	\$	81.21
1091009325	Sync Director Connection Upgrade License Small: Required to upgrade one Sync device of size S and for any sync-capable Ethernet device of size S from 12.X or higher to next major release	\$	78.55
1091009345	Sync Director Connection Upgrade License Large: Required to upgrade one Sync device of size L and for any sync-capable Ethernet device of size L from 12.X or higher to next major release	\$	141.02
1091009415	Sync GNSS Assurance Connection UPGRADE License from 12.X or higher to next major release OSA Extra Small: ENC License for a network elements of type OSA540x or OSA5410 or OSA5411	\$	46.80
1091009425	Sync GNSS Assurance Connection UPGRADE from 12.X or higher to next major release License OSA Small: ENC License for a network elements of type OSA542x or OSA5412	\$	139.76
1091009435	Sync GNSS Assurance Connection UPGRADE from version 12.X or higher to next major release. License OSA Medium: ENC License for a network elements of type OSA 5430	\$	202.41
1091008941	Ensemble Fiber Editor Application License for one client	\$	2,127.26
1091007450	Fiber Connection License ALM Extra Large: ENC License for one shelf of FAS ALM 384 port extender, applicable to ENC 14 and later versions	\$	2,820.74
1091003133-02	ENC Install Media version 13.3.2	\$	161.16
1091003132-02	ENC Install Media version 13.2.2	\$	161.16
1091009403	Ensemble Fiber Director connection License for one ALM unit extra large (384 port extender), applicable to ENC 14 and later versions	\$	1,866.67
1091009408	Ensemble Fiber Director connection License for one extra large ALM unit, UPGRADE from 14.X (or higher) to next major release	\$	461.48
1091009401	Ensemble Fiber Director connection License for one ALM unit medium or 96-port extender shelf, applicable to ENC 13.1 and later versions	\$	414.81
1091009130	Ensemble Optical Director Connection Licenses for one large shelf of type FSP3000, applicable to ENC 13.1 and later versions	\$	5,195.78

1091003124-02	ENC Install Media Version 12.4.2	\$	161.16
1091003124-01	FSP Network Manager Install Media Version 12.4.1	\$	161.16
1091009465	Sync GNSS Assurance Connection UPGRADE from 12.X or higher to next major release License for 3rd party devices	\$	140.00
1091007455	Fiber Connection Upgrade License ALM Large: ENC License for one shelf of FAS ALM 384 port extender UPGRADE from 14.X or higher to next major release	\$	700.00
1091009310	Sync Director Connection License Extra Small: Required for one Sync device of size XS and for any sync-capable Ethernet device of size XS, applicable to ENC 13.1 and later versions	\$	92.07
1091009321	Sync Director Connection License Small: Required for one Sync device of size S and for any sync-capable Ethernet device of size S, applicable to ENC 13.1 and later versions	\$	314.22
1091009330	Sync Director Connection License Medium: Required for one Sync device of size M and for any sync-capable Ethernet device of size M, applicable to ENC 13.1 and later versions	\$	432.44
1091009402	Ensemble Fiber Director connection License for one ALM unit large, applicable to ENC 13.1 and later versions	\$	1,005.93
1091020023	Ensemble Simulator license for F7 software release R21.x.	\$	7,259.26
1091003133-03	ENC Install Media version 13.3.3	\$	161.16
1091020033	Ensemble Simulator license for F8 software release R4.x.	\$	7,259.26
1091007040	Optical Connection License F8 Extra Small: ENC License for one extra small shelf of FSP 3000 C (AccessFlex), only applicable from ENC 15.x onwards	\$	258.22
1091007045	Optical Connection UPGRADE License F8 Extra Small: ENC License for one extra small shelf of FSP 3000 C (AccessFlex) UPGRADE from 15.X or higher to next major release	\$	64.81
1091006155	ENC Instance Upgrade License to upgrade from release 14.X to 15.X; any OS; Media is NOT included	\$	1,022.93
1091020041	Ensemble Simulator license for F4 software release R19.x.	\$	4,148.13
1091006150	Ensemble Controller Server License (any OS) Release 15.x, license shipped in electronic form, Media is NOT included	\$	4,091.72
1091008040	Ensemble Bandwidth Manager, applicable to ENC 12.1 and later versions	\$	15,885.66
91003560	FSP Network Manager Connection License for one TeraFlex Sled (MP-2D12CT), license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	5,879.88
1091001124	Ensemble Controller Server License (Windows Server 2008/2012) Release 11.x, license shipped in paper form, Media (DVD) is NOT included, order separately when required	\$	3,646.73
1091020022	Ensemble Simulator license for F7 software release R20.x.	\$	7,259.26
1091003132-01	ENC Install Media version 13.2.1	\$	161.16
1091020002	Ensemble Simulator application license for release 2.x; includes rights to simulate one NE SW release; simulation of up to 10 NE's. Unlimited users.	\$	25,925.93
1091003133-01	ENC Install Media version 13.3.1	\$	161.16
1091003131-02	ENC Install Media version 13.1.2	\$	161.16
1091009230	Packet Director Connection License Medium: Required for one Ethernet device size M, applicable to ENC 13.x and later versions	\$	108.31
1091009250	Packet Director Connection License Extra Large: Required for one Ethernet device size XL, applicable to ENC 13.x and later versions	\$	871.11
1091009241	Packet Director Connection License Large: Required for one Ethernet device size L, applicable to ENC 13.x and later versions	\$	324.93
1091006140	Ensemble Controller Server License (any OS) Release 14.x, license shipped in electronic form, Media is NOT included, order separately when required	\$	4,091.72
1091006145	ENC Instance Upgrade License to upgrade from release 13.X to 14.X; any OS; Media is NOT included, order separately when required	\$	1,022.93
1091007015-12	Optical Connection UPGRADE License F7 Small: ENC License for one shelf of type FSP 3000R7 small UPGRADE to 12.X	\$	129.51
1091007055-12	Optical Connection UPGRADE License F8 Small: ENC License for one slimline shelf of FSP 3000C (1HU or 2HU) UPGRADE to 12.X	\$	258.99

1091007340	Sync Connection License OSA Large: ENC License for a network elements of type Cesium Clock, applicable to ENC 12.1 and later versions	\$	1,208.67
1091008320	Ensemble Sync Assurance Manager for PTP License: this is intended to monitor clock recovery quality (time error and time interval error, TE/TIE) of Boundary clocks and PTP Slaves, applicable to ENC 12.1 and later versions	\$	6,446.22
1091007310	Sync Connection License OSA Extra Small: ENC License for a network elements of type OSA540x or OSA5410 or OSA5411, applicable to ENC 12.1 and later versions	\$	120.86
1091009410	Sync GNSS Assurance Connection License OSA Extra Small: ENC License for a network elements of type OSA540x or OSA5410 or OSA5411, applicable to ENC 12.1 and later versions	\$	186.67
1091009420	Sync GNSS Assurance Connection License OSA Small: ENC License for a network elements of type OSA542x or OSA5412, applicable to ENC 12.1 and later versions	\$	558.76
1091008130	Optional license per ENC server for north bound MTOSI interface, applicable to ENC 12.1 and later versions	\$	192,553.45
1091007440	Fiber Connection License ALM Large: ENC License for one shelf of FAS ALM 64, applicable to ENC 12.1 and later versions	\$	1,420.74
1091007900	3rd Party Connection License Generic SNMP: ENC License for Generic SNMP NE, for 3rd party, applicable to ENC 12.1 and later versions	\$	216.62
1091009340	Sync Director Connection License Large: Required for one Sync device (L or XL) and for any sync-capable Ethernet device (XL), applicable to ENC 12.x	\$	702.18
1091007350	Sync Connection License OSA Extra Large: ENC License for a network elements of type OSA 5548C SSU/TSG (E200/E60), OSA5335 PTP GM and OSA 5440, applicable to ENC 12.1 and later versions	\$	2,578.49
1091008310	Ensemble Sync Ass. Manager for GNSS License: used for PTP Grand Masters or/and ePRTC, that use GNSS as primary sync source. This include data history collection and analysis in a big scale, AI/ML, etc., applicable to ENC 12.1 and later versions	\$	6,259.56
1091009450	Sync GNSS Assurance Connection License OSA Extra Large: for a network elements of type OSA 5548C SSU/TSG (E200/E60), OSA5335 PTP GM and OSA 5440, TP5000 (Microsemi), applicable to ENC 12.1 and later versions	\$	995.14
1091009430	Sync GNSS Assurance Connection License OSA Medium: ENC License for a network elements of type OSA 5430, applicable to ENC 12.1 and later versions	\$	808.89
1091008910	Ensemble Optical Director License: Serves for active WDM Provisioning, applicable to ENC 12.1 and later versions	\$	25,994.37
1091008035-12	Upgrade Ensemble ConnectGuard Director UPGRADE to 12.X	\$	3,798.67
1091007075-12	Optical Connection UPGRADE License F8 Large: ENC License for one large shelf of FSP 3000 C (12HU) UPGRADE to 12.X	\$	2,590.00
1091008315-12	Ensemble Sync Assurance Manager for GNSS Upgrade License: Upgrade for Ensemble Assurance for GNSS Manager to 12.X	\$	1,309.39
1091008055-12	Upgrade of Ensemble Command Based Manager UPGRADE to 12.X	\$	4,489.33
1091008115-12	Upgrade for Ensemble Director T-API SDN northbound interface License UPGRADE to 12.X	\$	46,044.44
1091007115-12	Optical Connection License ACC Small: ENC License for one shelf of type FSP 3000 ACC small UPGRADE to 12.X	\$	146.77
1091007125-12	Optical Connection License ACC Medium: ENC License for FSP 3000 ACC UPGRADE to 12.X	\$	561.17
1091007135-12	Optical Connection License ACC Large: ENC License for one large shelf type FSP 3000ACC UPGRADE to 12.X	\$	949.67
1091007035-12	Optical Connection UPGRADE License F7 Large: ENC License for one shelf of type FSP 3000R7 big (9 HU) UPGRADE to 12.X	\$	1,122.34
1091008020	Streaming Replication HA for ENC server, applicable to ENC 13.3 and later versions	\$	2.30
1091007435-12	Fiber Connection Upgrade License ALM Medium: ENC License for one shelf of FAS ALM UPGRADE to 12.X	\$	126.62
1091009100	Ensemble Optical Director Connection Licenses for one shelf of type FSP3000, applicable to ENC 12.x	\$	2,486.40

1091008946	Ensemble Fiber Editor Application License UPGRADE for one client	\$	746.68
1091009105-12	Ensemble Optical Director Connection Licenses for one shelf of type FSP3000, UPGRADE to 12.X	\$	621.60
1091009110	Ensemble Optical Director Connection Licenses for one small shelf of type FSP3000, applicable to ENC 13.1 and later versions	\$	779.84
1091009341	Sync Director Connection License Large: Required for one Sync device of size L and for any sync-capable Ethernet device of size L, applicable to ENC 13.1 and later versions	\$	564.04
1091009221	Packet Director Connection License Small: Required for one Ethernet device size S, applicable to ENC 13.x and later versions	\$	64.98
1091009315	Sync Director Connection Upgrade License Extra Small: Required to upgrade one Sync device of size XS and for any sync-capable Ethernet device of size XS from 12.X or higher to next major release	\$	23.02
1091009135	Ensemble Optical Director Connection Licenses for one large shelf of type FSP3000, UPGRADE from 12.X or higher to next major release	\$	1,299.73
1091009120	Ensemble Optical Director Connection Licenses for one medium shelf of type FSP3000, applicable to ENC 13.1 and later versions	\$	2,599.48
1091009215	Packet Director Upgrade Connection Licenses Extra Small: Required for one Ethernet device of size XS, UPGRADE from 12.X or higher to next major release	\$	9.04
1091009255	Packet Director Upgrade Connection Licenses Extra Large: Required for one Ethernet device of size XL, UPGRADE from 12.X or higher to next major release	\$	217.78
1091009115	Ensemble Optical Director Connection Licenses for one small shelf of type FSP3000, UPGRADE from 12.X or higher to next major release	\$	194.95
1091009125	Ensemble Optical Director Connection Licenses for one medium shelf of type FSP3000, UPGRADE from 12.X or higher to next major release	\$	649.87
1091009460	Sync GNSS Assurance Connection License for 3rd party devices, applicable to ENC 12.1 and later versions	\$	560.00
1091008025-12	Streaming Replication HA UPGRADE for ENC server UPGRADE to 12.X	\$	2.30
1091009225-12	Packet Director Upgrade Connection Licenses Small: Required for one Ethernet device (XS, S or M), UPGRADE to 12.X	\$	15.54
1091008010	Optional license per ENC server for stand-by server usage, applicable to ENC 12.1 and later versions	\$	21,662.27
1091007430	Fiber Connection License ALM Medium: ENC License for one shelf of FAS ALM or 96-port extender shelf, applicable to ENC 12.1 and later versions	\$	710.37
1091008940	Ensemble Fiber Director License: Serves for Geographical Management of Fibers in connection with ALM devices, applicable to ENC 12.1 and later versions	\$	4,189.63
1091009400	Ensemble Fiber Director connection License for one ALM unit, applicable to ENC 12.x	\$	239.44
1091007905-12	3rd Party Connection Upgrade License Generic SNMP: ENC License for Generic SNMP NE UPGRADE to 12.X	\$	51.81
1091007325-12	Sync Connection Upgrade License OSA Small: ENC License for a network elements of type OSA542x UPGRADE to 12.X	\$	50.36
1091007250	Packet Connection License Eth Extra Large: ENC License for a network element of type FSP150 XG480, Z4806, EG-X or EG-M, applicable to ENC 12.1 and later versions	\$	1,866.67
1091007010	Optical Connection License F7 Small: ENC License for one shelf of type FSP 3000R7 small only, applicable to ENC 12.1 and later versions	\$	541.56
1091007065-12	Optical Connection UPGRADE License F8 Medium: ENC License for one compact shelf of FSP 3000 C (3HU or 4HU) UPGRADE to 12.X	\$	949.67
1091007245-12	Packet Connection Upgrade License Eth Large: ENC License for a network element of type FSP 150CM, XG210, XG308, XG404, XG418, HN 4000 or OS9000 series, UPGRADE to 12.X	\$	172.67
1091007255-12	Packet Connection Upgrade License Eth Extra Large: ENC License for a network element of type FSP XG480, Z4806, EG-X or EG-M, UPGRADE to 12.X	\$	466.67
1091008030	Ensemble ConnectGuard Director, applicable to ENC 12.1 and later versions	\$	15,885.66
1091002750	Ensemble Packet Director License for Ethernet Service Management on PV Client, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	35,914.67

1091008925-12	Ensemble Packet Director Upgrade License: Upgrade for Ensemble Packet Director License for Active Ethernet Provisioning to 12.X	\$	9,151.33
1091009245-12	Packet Director Upgrade Connection License Large: Required for one Ethernet device (L or XL), UPGRADE to 12.X	\$	77.70
1091009210	Packet Director Connection License Extra Small: Required for one Ethernet device size XS, applicable to ENC 13.x and later versions	\$	36.10
1091009406	Ensemble Fiber Director connection License for one medium ALM unit or 96-port extender shelf, UPGRADE from 12.X (or higher) to next major release	\$	82.96
1091009407	Ensemble Fiber Director connection License for one large ALM unit, UPGRADE from 12.X (or higher) to next major release	\$	248.90
1091009355	Sync Director Connection Upgrade License Extra Large: Required to upgrade one Sync device of size XL and for any sync-capable Ethernet device of size XL from 12.X or higher to next major release	\$	260.41
1091009335	Sync Director Connection Upgrade License Medium: Required to upgrade one Sync device of size M and for any sync-capable Ethernet device of size M from 12.X or higher to next major release	\$	107.20
1091009350	Sync Director Connection License Extra Large: Required for one Sync device of size XL and for any sync-capable Ethernet device of size XL, applicable to ENC 13.1 and later versions	\$	1,041.60
1091009235	Packet Director Upgrade Connection Licenses Medium: Required for one Ethernet device of size M, UPGRADE from 12.X or higher to next major release	\$	27.11
1091003141-01	ENC Install Media version 14.1.1	\$	168.49
1091008915-12	Ensemble Optical Director Upgrade License: Upgrade for Ensemble Optical Director License for Active WDM Provisioning to 12.X	\$	6,216.00
1091007060	Optical Connection License F8 Medium: ENC License for one compact shelf of FSP 3000 C (3HU or 4HU), applicable to ENC 12.1 and later versions	\$	3,971.35
1091006120	Ensemble Controller Server License (any OS) Release 12.x, license shipped in electronic form, Media (DVD) is NOT included, order separately when required	\$	3,913.78
1091007085-12	Optical Connection UPGRADE License MP: ENC License for one High Speed Muxponder Card, such as QuadFlex (MP-2B4CT) or TeraFlex (MP-2D12CT) UPGRADE to 12.X	\$	1,424.50
1091007070	Optical Connection License F8 Large: ENC License for one large shelf of FSP 3000 C (12HU), applicable to ENC 12.1 and later versions	\$	10,831.11
1091002770	Ensemble Packet Director Connection License for one Small Ethernet device large Ethernet device (OS-V20/XG308, XG312, OP-X, Z4806) in PV client, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	621.60
1091020001	Ensemble Simulator application license for release 1.x; includes rights to simulate one NE SW release; simulation of up to 10 NE's. Unlimited users.	\$	25,925.93
1091002130	Ensemble Controller Connection License for one large AccessConnect shelf (OD-32, OD-48). License shipped in paper form, applicable to ENC 11.3 and prior versions	\$	3,646.73
1091001324	Ensemble Controller Server License (RedHat Enterprise Linux Server) Release 11.x, license shipped in paper form, Media (DVD) is NOT included, order separately when required	\$	3,646.73
1091001724	Upgrade to Ensemble Controller Version 11.x. SW for Linux (Red Hat Enterprise Server), license shipped in paper form, Media (DVD) is NOT included, order separately when required	\$	1,519.47
1091007020	Optical Connection License F7 Medium: ENC License for FSP 3000R7, applicable to ENC 12.1 and later versions	\$	3,249.33
1091007215-12	Packet Connection Upgrade License Eth Extra Small: ENC License for a tiny network element of type FSP 150 (GE101Pro) UPGRADE to 12.X	\$	13.81
1091007225-12	Packet Connection Upgrade License Eth Small: ENC License for a small network elements of type FSP 150 (GO102Pro, GE1xx(Pro), GE 201) OS606 or HN400, UPGRADE to 12.X	\$	25.91
1091007445-12	Fiber Connection Upgrade License ALM Large: ENC License for one shelf of FAS ALM 64 UPGRADE to 12.X	\$	253.24

1091007915-12	Connection Upgrade License FSP 1500: ENC License for a network element of type FSP 1500, UPGRADE to 12.X	\$	57.56
1091008045-12	Upgrade of Ensemble Bandwidth Manager UPGRADE to 12.X	\$	3,798.67
1091008135-12	Optional license per ENC server for north bound MTOSI interface UPGRADE to 12.X	\$	46,044.44
1091008325-12	Ensemble Sync Assurance Manager for PTP Upgrade License: Upgrade for Ensemble Assurance for PTP Manager to 12.X	\$	1,611.56
1091009415-12	Sync GNSS Assurance Connection UPGRADE License OSA Extra Small: ENC License for a network elements of type OSA540x or OSA541x	\$	13.24
1091009425-12	Sync GNSS Assurance Connection UPGRADE License OSA Small: ENC License for a network elements of type OSA542x	\$	26.46
1091009435-12	Sync GNSS Assurance Connection UPGRADE License OSA Medium: ENC License for a network elements of type OSA 5430	\$	47.48
1091009455-12	Sync GNSS Assurance Connection UPGRADE License OSA Extra Large: for a network elements of type OSA 5548C SSU/TSG (E200/E60), OSA5335 PTP GM and OSA 5440, TP5000 (Microsemi)	\$	80.58
1091020021	Ensemble Simulator license for F7 software release R19.x.	\$	7,259.26
1091020031	Ensemble Simulator license for F8 software release R2.x.	\$	7,259.26
1091020032	Ensemble Simulator license for F8 software release R3.x.	\$	7,259.26
1091020040	Additional NE software simulation licenses; one license required per additional simulated NE. 10 NE simulation licenses are included in the base simulator license package.	\$	766.37
1091007235-12	Packet Connection Upgrade License Eth Medium: ENC License for a network elements of type FSP 150CP, CC, MX, XG1xx(Pro), XG304 or OS900 series, UPGRADE to 12.X	\$	15.56
1091007030	Optical Connection License F7 Large: ENC License for one shelf of type FSP 3000R7 large (9 HU), applicable to ENC 12.1 and later versions	\$	4,693.27
1091008110	Ensemble Director T-API SDN northbound interface License, applicable to ENC 12.1 and later versions	\$	192,553.66
1091008930	Ensemble Sync Director License: Serves for Active management of Synchronization Networks, applicable to ENC 12.1 and later versions	\$	6,446.22
1091009325-12	Sync Director Connection Upgrade License Small: Required to upgrade one Sync device (XS, S or M) and for any sync-capable Ethernet device (XS, S, M and L) to 12.X	\$	39.42
1091007335-12	Sync Connection Upgrade License OSA Medium: ENC License for a network elements of type PTP GM and NTP Server OSA 5430 and PTP GM OSA 5331 UPGRADE to 12.X	\$	201.45
1091007315-12	Sync Connection Upgrade License OSA Extra Small: ENC License for a network elements of type OSA540x or OSA541x UPGRADE to 12.X	\$	30.22
1091002755	Upgrade for Ensemble Packet Director License for Ethernet Service Management on PV Client UPDATE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	12,086.67
1091002760	Ensemble Packet Director Connection License for one small Ethernet device ( OS606, OS9xx, OS9xxx, OS-V8/XG304) in PV client, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	62.16
1091002765	Ensemble Packet Director Connection License for one small Ethernet device ( OS606, OS9xx, OS9xxx, OS-V8/XG304) in PV client, UPGRADE, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	20.73
1091002775	Ensemble Packet Director Connection License for one Small Ethernet device large Ethernet device (OS-V20/XG308, XG312, OP-X, Z4806) in PV client, UPGRADE license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	207.20
1091003123-01	FSP Network Manager Install Media (DVD) Version 12.3.1	\$	161.16
1091002880	Ensemble GEO Manager Connection Licenses for a network element of type FAS ALM 64, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	394.83
1091002850	Ensemble GEO Manager Server License, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	3,038.93
1091002870	Ensemble GEO Manager Connection Licenses for a network element of type FAS ALM, license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	197.99

1091008920	Ensemble Packet Director License: Serves for Active Ethernet Provisioning, applicable to ENC 12.1 and later versions	\$	36,605.33
1091009240	Packet Director Connection License Large: Required for one Ethernet device (L or XL), applicable to ENC 12.x	\$	552.53
1091007230	Packet Connection License Eth Medium: ENC License for a network elements of type FSP 150CP, CC, MX, GE206, XG1xx[Pro], XJ128, XG304 or OS900 series, applicable to ENC 12.1 and later versions	\$	180.52
1091001624	Upgrade to Ensemble Controller Version 11.x. SW for Windows Server (2008/2012), license shipped in paper form, Media (DVD) is NOT included, order separately when required	\$	1,519.47
1091007110	Optical Connection License ACC Small: ENC License for one shelf of type FSP 3000 ACC small only, applicable to ENC 12.1 and later versions	\$	613.76
1091007120	Optical Connection License ACC Medium: ENC License for FSP 3000 ACC, applicable to ENC 12.1 and later versions	\$	2,346.65
1091007130	Optical Connection License ACC Large: ENC License for one large shelf type FSP 3000ACC, applicable to ENC 12.1 and later versions	\$	3,971.35
1091008945-12	Ensemble Fiber Director Upgrade License: Upgrade for Ensemble Fiber Director to 12.X	\$	748.22
1091009405-12	Ensemble Fiber Director connection License for one ALM unit, UPGRADE to 12.X	\$	59.85
1091007210	Packet Connection License Eth Extra Small: ENC License for a tiny network element of type FSP 150 (GE101Pro), applicable to ENC 12.1 and later versions	\$	57.76
1091009220	Packet Director Connection License Small: Required for one Ethernet device (XS, S or M), applicable to ENC 12.x	\$	62.16
1091009345-12	Sync Director Connection Upgrade License Large: Required to upgrade one Sync device (L or XL) and for any sync-capable Ethernet device (XL) to 12.X	\$	141.02
1091007355-12	Sync Connection Upgrade License OSA Extra Large: ENC License for a network elements of type OSA 5548C SSU/TSG (E200/E60), OSA5335 PTP GM and OSA 5440 UPGRADE to 12.X	\$	644.64
1091007345-12	Sync Connection Upgrade License OSA Large: ENC License for a network elements of type Cesium Clock UPGRADE to 12.X	\$	302.18
1091008935-12	Ensemble Sync Director Upgrade License: Upgrade for Ensemble Sync Director Server License	\$	1,611.56
1091008050	Ensemble Command Based Manager, applicable to ENC 12.1 and later versions	\$	17,957.33
1091007220	Packet Connection License Eth Small: ENC License for a small network elements of type FSP 150 (Gx102Pro, GE11x[Pro], GE104, GE201) OS606 or HN400, applicable to ENC 12.1 and later versions	\$	108.31
1091007240	Packet Connection License Eth Large: ENC License for a network element of type FSP 150CM, XG210, XG308, XG312, XG404, XG418, HN 4000 or OS9000 series, applicable to ENC 12.1 and later versions	\$	722.07
1091006125	ENC Instance Upgrade License to upgrade from release 11.x or prior to 12.x: Upgrade to Release 12.x, any OS, Media (DVD) is NOT included, order separately when required	\$	978.44
1091009320	Sync Director Connection License Small: Required for one Sync device (XS, S or M) and for any sync-capable Ethernet device (XS, S, M and L), applicable to ENC 12.x	\$	84.03
1091003113-02	FSP Network Manager Install Media (DVD) Version 11.3.2	\$	151.94
1091008015-12	Upgrade license for an ENC server for stand-by server usage UPGRADE to 12.X	\$	5,180.00
1091006130	Ensemble Controller Server License (any OS) Release 13.x, license shipped in electronic form, Media is NOT included, order separately when required	\$	3,913.78
1091905919-01	GNSS Assurancve SW License, applicable to ENC 11.3 and prior versions	\$	5,318.13
1091003142-01	ENC Install Media version 14.2.1	\$	161.16
1091007320	Sync Connection License OSA Small: ENC License for a network elements of type OSA542x or OSA5412, applicable to ENC 12.1 and later versions	\$	201.45
1091007050	Optical Connection License F8 Small: ENC License for one small modular shelf of FSP 3000 C (1HU or 2HU or Teraflex shelf), only applicable from ENC 12.x onwards	\$	1,083.14
1091007080	ENC License for one High Speed Muxponder Card, such as QuadFlex (MP-2B4CT) and its variants and Teraflex sleds (e.g. MP-2D12CT or T-MP-2D8CT or T-MP-2D3DT) and its variants, or OpenFab1200 (OF-2D16DCT) applicable to ENC 12.1 and later versions	\$	5,956.76

1091007330	Sync Connection License OSA Medium: ENC License for a network elements of type PTP GM and NTP Server OSA 5430 and PTP GM OSA 5331, applicable to ENC 12.1 and later versions	\$	805.78
1091007025-12	Optical Connection UPGRADE License F7 Medium: ENC License for one shelf of type FSP 3000R7 UPGRADE to 12.X	\$	777.01
1091905921-01	GNSS Assurance SW Connection License for one medium/big network element like Medium/Large PTP GMs and SSU/TSGs, i.e. OSA 542x and OSA5430 (medium PTP GM), OSA5548C/5335 and OSA5440 (large GM /SSU), TP5000, applicable to ENC 11.3 and prior versions	\$	105.90
91003660	FSP Network Manager Connection License for one TeraFlex Sled (MP-2D12CT), license shipped in paper form, applicable to ENC 11.3 and prior versions	\$	1,960.34
1091905920-01	GNSS Assurance SW Connection License for one small network elements like Edge PTP GM (OSA541x and OSA540x), applicable to ENC 11.3 and prior versions	\$	52.95
1091002115	Ensemble Controller Connection License for one small AccessConnect or FiberDriver shelf (OD-4, OD-6, NM316BU-4, NM316BU-3, NM316BU-2) UPGRADE. License shipped in paper form, applicable to ENC 11.3 and prior versions	\$	204.90
1091002120	Ensemble Controller Connection License for one medium AccessConnect or FiberDriver shelf (OD-12, OD-16, NM316BU-16). License shipped in paper form, applicable to ENC 11.3 and prior versions	\$	2,279.20
1091002125	Ensemble Controller Connection License for one medium AccessConnect or FiberDriver shelf (OD-12, OD-16, NM316BU-16) UPGRADE. License shipped in paper form, applicable to ENC 11.3 and prior versions	\$	751.67
1091002135	Ensemble Controller Connection License for one large AccessConnect shelf (OD-32, OD-48) UPGRADE. License shipped in paper form, applicable to ENC 11.3 and prior versions	\$	1,212.12
1091003113-01	FSP Network Manager Install Media (DVD) Version 11.3.1	\$	151.94
1091002110	Ensemble Controller Connection License for one small AccessConnect or FiberDriver shelf (OD-4, OD-6, NM316BU-4, NM316BU-3, NM316BU-2). License shipped in paper form, applicable to ENC 11.3 and prior versions	\$	592.83
1091003143-01	ENC Install Media version 14.3.1	\$	161.16
1078904726-01	GE114Pro (HE) hot swappable PSUs and environmental inputs	\$	1,211.25
1091904690-01	ETHERJACK OS, CC-GE11x, PBB LIC KEY	\$	43.63
1091904757-01	ETHERJACK OS, CC-GE11xPro, PTP EXT Slave KEY	\$	102.00
1091904758-01	ETHERJACK OS, CC-GE11x, EoMPLS LIC KEY	\$	102.00
1091904756-01	ETHERJACK OS, CC-GE11x, PROBE EXT LIC KEY	\$	102.00
1091904692-01	ETHERJACK OS, GE11xPRO, IPFIX License key	\$	102.00
1091904691-01	ETHERJACK OS, CC-GE11x, MiniGM and BC LIC KEY	\$	102.00
1013904023	GO102Pro Pole Mounting kit with Solar Shield for reducing the heating effect of direct sunlight. Includes 2x Jubilee band for nominal 145mm diameter poles. Alternative bands could be obtained from an external source if other sizes are required.	\$	181.77
1013904030	Screw-in IP-67 Power Connector Cap	\$	14.55
1013904029	PF13.5 Cable Outlet Cap	\$	14.55
1013904024	PF13.5 Cable Gland. For cable diameters 5 - 9mm.	\$	30.30
1013904031	GO102Pro Wall Mounting kit with Solar Shield, includes Solar Shield for reducing the heating effect of direct sunlight in hot climates. Includes mounting materials required for solid concrete/brick walls and wood applications.	\$	145.42
1078904822-01	GO102Pro (SP). Outdoor, water proof, 2 access port 1 net port, sync, PoE PSE and integrated AC PSU	\$	1,721.25
1078904824-01	GO102Pro (SP). Outdoor, water proof, 2 access port 1 net port, sync, PoE PSE and integrated DC PSU	\$	1,581.00
1078904823-01	GO102Pro (S). Outdoor, water proof, 2 access port 1 net port, sync and integrated DC (-48VDC or +24VDC) and PoE PD PSU	\$	1,491.75
1078904821-01	GO102Pro (S). Outdoor, water proof, 2 access port 1 net port, sync and integrated AC PSU	\$	1,355.75



1013904022	GO102Pro Pole Mounting kit, includes 2x Jubilee band for nominal 145mm diameter poles. Alternative bands could be obtained from an external source if other sizes are required.	\$	109.05
1013904021	GO102Pro Wall Mounting kit, Includes mounting materials required for solid concrete/brick walls and wood applications.	\$	65.43
1078904722-01	GE114Pro (C). MACsec and integrated AC PSU	\$	2,975.00
1078904723-01	GE114Pro (C). MACsec and integrated -48VDC PSU	\$	2,975.00
1091904754-01	ETHERJACK OS, CC-GE11xPRO, OF LIC KEY	\$	102.00
1091904753-01	ETHERJACK OS, CC-GE11xPRO, L3 LIC KEY	\$	102.00
1091904755-01	ETHERJACK OS, CC-GE11xPRO, VRF-EXT LIC KEY	\$	51.00
1091904788-01	ETHERJACK OS, GE11x, EoMPLSoGRE LIC KEY	\$	102.00
1091904774-01	ETHERJACK OS, GE100Pro, VxLAN GATEWAY LIC KEY	\$	42.50
1078904890-01	GE102Pro H with dual, integrated AC PSUs, for head-end deployments where EFMOMA management is used	\$	688.50
1078904891-01	GE102Pro H with dual, integrated AC PSUs, for tail-end deployments where EFMOMA management is used	\$	692.75
1078904893-01	GE102Pro H with dual, integrated DC PSUs, for tail-end deployments where EFMOMA management is used	\$	684.25
1091904880-01	ETHERJACK OS, CC-GX10xPRO, PRE-INSTALLED SW, R9.6.1	\$	42.50
1078904892-01	GE102Pro H with dual, integrated DC PSUs, for head-end deployments where EFMOMA management is used	\$	680.00
1091904772-03	GX10xPRO, PRE-INSTALLED SW, R9.5.3	\$	42.50
1078904820-01	GE101Pro micro NID	\$	480.25
1078904722-02	GE114Pro (C). MACsec and integrated AC PSU	\$	2,975.00
1078904723-02	GE114Pro (C). MACsec and integrated -48VDC PSU	\$	2,975.00
1091904778-01	GX10xPRO, PRE-INSTALLED SW, R10.1.1	\$	42.50
1078904725-02	GE114Pro (CSH) MACsec+, sync and hot swappable PSUs	\$	5,100.00
1091904772-04	ETHERJACK OS, CC-GX10xPRO, PRE-INSTALLED SW, R9.5.4	\$	42.50
1091904880-02	GX10xPRO, PRE-INSTALLED SW, R9.6.2	\$	42.50
1013904035-01	GO102Pro Mini (Sm) Wall Mount	\$	65.43
1040904062-01	AC PSU to 12VDC External IP67 with captive AC Cable for GO102Pro (Sm):EU	\$	169.65
1091901008-01	FSP 150-XJ128, Base KEY, Must be ordered with each Hardware chassis.	\$	204.02
1091901070-01	FSP 150-XJ128 Pre-installed SW, R13.1.1	\$	-
1078901090-01	XJ128 (SH), with 2 SFP28 Network and 4 Access ports (J45/SFP/SFP+,SFP28), dual PSUs pluggable, I-Temp	\$	3,255.50
1091904880-03	GX10xPRO, PRE-INSTALLED SW, R9.6.3	\$	42.50
1091901071-01	FSP 150-XJ128 Pre-installed SW, R13.5.1	\$	-
1091904887-02	GE11xPRO, PRE-INSTALLED SW, R11.5.2	\$	-
1091904008-04	GEX10XPRO, PRE-INSTALLED SW, R9.6.4	\$	-
1091904888-02	GX10xPRO, PRE-INSTALLED SW, R11.5.2	\$	-
1091905009-01	GE104, PRE-INSTALLED SW, R13.7.1	\$	-
1091901106-01	FSP 150-XG108, FSP 150-XO106, Pre-installed SW, R13.7.1	\$	-
1091901043-01	GX10XPRO, PRE-INSTALLED SW, R13.7.1	\$	-
1091901072-01	FSP 150-XJ128 Pre-installed SW, R13.7.1	\$	-
1091901042-01	GE11xPRO, PRE-INSTALLED SW, R13.7.1	\$	-
1091904797-01	GX10XPro, Base Key, must be ordered with each HW Sales item	\$	42.50
1091905007-01	GE104, PRE-INSTALLED SW, R13.1.1	\$	-
1091901105-01	FSP 150-XG108, FSP 150-XO106, Pre-installed SW, R13.6.1	\$	-
1078904906-01	GE104(E) with integrated DC -48V PSU	\$	799.00

1091905005-01	GX10xPRO, PRE-INSTALLED SW, R13.1.1	\$	-
1078904905-01	GE104(E) with integrated AC PSU	\$	765.00
1091904778-03	Preinstalled Rel.10.1.3 software on the GX10XPRO products. Includes a Base Key.	\$	42.50
1091904779-03	Preinstalled Rel.10.1.3 software on the GE11XPRO Products. Includes Base Key.	\$	102.00
1091901052-01	XO106, XG108, XJ128, SR-MPLS-EDGE License	\$	102.00
1091901055-01	XO106, XG108, XJ128, MiniGM and BC LIC KEY	\$	204.02
1091901005-01	FSP 150-XG10X, Base KEY, Must be ordered wiith each Hardware item.	\$	204.02
1078901070-01	XG108 with 4 SFP 100/1GE, 4 SFP+ 1/10GE, AC PSU integrated	\$	1,644.75
1078901071-01	XG108 with 4 SFP 100/1GE, 4 SFP+ 1/10GE, DC -48V PSU integrated	\$	1,797.75
1091904890-02	GE104, PRE-INSTALLED SW, R11.1.2	\$	-
1091905006-01	GE11xPRO, PRE-INSTALLED SW, R13.1.1	\$	-
1091905002-02	GE104, PRE-INSTALLED SW, R11.6.2	\$	-
1078901100-01	XO106 10G Outdoor Device, 6 ports (4x1G/10G and 2x1G). Dual AC Input.	\$	3,719.87
1078901101-01	XO106 10G Outdoor Device, 6 ports (4x1G/10G and 2x1G). Dual DC Input.	\$	3,817.62
1091904888-01	GX10xPRO, PRE-INSTALLED SW, R11.5.1	\$	-
BC00000975	GE101Pro micro NID with AC power adapter and AC Power Cable, India	\$	618.50
1078901081-01	XG108(SH), with 4 SFP 100/1GE, 4 SFP+ 1/10GE, Sync, dual PSUs pluggable, I-Temp	\$	2,248.25
1091901010-01	FSP 150-XG108, Pre-installed SW, R13.1.1	\$	-
1091905003-02	GE11xPRO, PRE-INSTALLED SW, R11.6.2	\$	-
1091904885-02	GE11xPRO, PRE-INSTALLED SW, R11.1.2	\$	-
1091904882-03	ETHERJACK OS, CC-GX10xPRO, PRE-INSTALLED SW, R10.5.3	\$	42.50
1078904900-01	GE104 with integrated AC PSU	\$	739.50
1091901040-01	GE11xPRO, PRE-INSTALLED SW, R13.5.1	\$	-
1078904724-02	GE114Pro (SH) Sync and hot swappable PSUs	\$	1,993.25
1078904721-02	GE114Pro with integrated DC PSU	\$	1,143.25
1078904720-02	GE114Pro with integrated AC PSU	\$	1,058.25
1091904882-01	ETHERJACK OS, CC-GX10xPRO, PRE-INSTALLED SW, R10.5.1	\$	42.50
1091904778-02	GX10xPRO, PRE-INSTALLED SW, R10.1.2	\$	42.50
1078901080-01	XG108(H), with 4 SFP 100/1GE, 4 SFP+ 1/10GE, dual PSUs pluggable, I-Temp	\$	1,721.25
1091905001-01	GX10xPRO, PRE-INSTALLED SW, R11.6.1	\$	-
1091905002-01	GE104, PRE-INSTALLED SW, R11.6.1	\$	-
1091905003-01	GE11xPRO, PRE-INSTALLED SW, R11.6.1	\$	-
1091901053-01	XO106, XG10X, EOMPLS License	\$	85.00
1091901054-01	XO106, XG108, XJ128 , Elephant Flows Control	\$	102.00
1091905001-02	GX10xPRO, PRE-INSTALLED SW, R11.6.2	\$	-
1091901040-02	GE11xPRO, PRE-INSTALLED SW, R13.5.2	\$	-
1091901041-01	GX10XPRO, PRE-INSTALLED SW, R13.5.1	\$	-
1091901014-01	FSP 150-XG108, Pre-installed SW, R13.5.1	\$	-
1078904701-02	GE112Pro with integrated AC PSU, no DIN connector for second external PSU	\$	884.00
1078904702-02	GE112Pro with integrated -48VDC PSU, no DIN connector for second external PSU	\$	973.25
1078904705-02	GE112Pro (H) with hot swappable PSUs, no DIN connector for second external PSU	\$	918.00
1091901100-01	FSP 150-XO106, Base SW features, Must order one License for each chassis	\$	204.02
1091904766-03	FSP 150CC-GE11x, PRE-INSTALLED SW, R9.1.3	\$	102.00
1091904883-03	ETHERJACK OS, CC-GE11xPRO, PRE-INSTALLED SW, R10.5.3	\$	102.00
1091904887-01	GE11xPRO, PRE-INSTALLED SW, R11.5.1	\$	-
1091904891-01	GE104, PRE-INSTALLED SW, R11.5.1	\$	-
1040904063-01	AC PSU to 12VDC External IP67 with captive AC Cable for GO102Pro (Sm):NA	\$	169.65

1078904901-01	GE104 with integrated DC -48V PSU	\$	743.75
1091905008-01	GE104, PRE-INSTALLED SW, R13.5.1	\$	-
1091904882-02	GX10xPRO, PRE-INSTALLED SW, R10.5.2	\$	42.50
1091904772-05	GX10xPRO, PRE-INSTALLED SW, R9.5.5	\$	42.50
1040904066-01	External AC PSU to 12VDC for GE101Pro	\$	47.60
1078904825-02	GO102Pro (Sm). Waterproof IP65, 2 Access port 1 Net Port, Sync. EMC Class B	\$	1,177.25
1091904796-01	GE11x, Base Key, must be ordered with each HW Sales item	\$	102.00
1091904886-02	GX10xPRO, PRE-INSTALLED SW, R11.1.2	\$	-
1078904119-01	FSP 150CC-GE206 and XG116PRO Fan Module	\$	153.00
1091904818-01	GE206V, PRE-INSTALLED SW, R13.7.1	\$	-
1091904817-03	GE206V, PRE-INSTALLED SW, R13.1.3	\$	-
1091904428-01	ETHERJACK OS, XGPRO, IPFIX License	\$	110.17
1091904429-01	ETHERJACK OS, XGPRO, L3 License	\$	110.17
1091904430-01	ETHERJACK OS, XGPRO, VRF License	\$	110.17
1091904431-01	ETHERJACK OS, XGPRO, EOMPLS License	\$	110.17
1013904435-01	Filler Card, AC PSU - XG120Pro chassis	\$	7.65
1013904436-01	Filler Card, DC PSU - XG120Pro chassis	\$	7.65
1013904439-01	XG120Pro Fan Tray Module-filter cage, DC	\$	12.75
1013904441-01	XG120Pro Fan Tray Module-filter cage, AC	\$	8.50
1013904438-01	XG120Pro Fan Tray Module-filter replacement, DC	\$	3.40
1013904440-01	XG120Pro Fan Tray Module-filter replacement, AC	\$	1.70
1042004437-01	XG120Pro Fan Tray Module-Exhaust flow	\$	213.35
1078904852-01	NFV Server Filler Card	\$	34.00
1091904427-01	XG100PRO, PRE-INSTALLED SW, R9.1.1	\$	391.00
1091904789-01	ETHERJACK OS, XGPRO, Elephant Flows Control	\$	157.25
1091904432-02	XG100PRO, PRE-INSTALLED SW, R9.2.2	\$	391.00
1091904435-01	XG100PRO, PRE-INSTALLED SW, R9.6.1	\$	391.00
1042004438-01	XG116ProH Fan Tray Module-Exhaust f	\$	213.35
1078904455-01	XG116Pro (H) Chassis	\$	2,842.40
1091904437-01	XG100PRO, PRE-INSTALLED SW, R10.1.1	\$	391.00
1091904435-02	ETHERJACK OS, XGPRO, PRE-INSTALLED SW, R9.6.2	\$	391.00
1091904461-01	XG118PRO (CSH), Base Key must be ordered with each HW Sales item	\$	918.00
1091904463-01	XG118PRO (CSHG), Base Key must be ordered with each HW Sales item	\$	4,675.00
1078904460-03	XG120Pro Basic Chassis - AC	\$	3,141.60
1078904471-02	XG118Pro (SH) Basic Chassis - AC	\$	4,153.10
1078904481-02	XG120Pro (SH) Basic Chassis - AC	\$	3,489.25
1091904468-01	XG116PRO/XG120PRO, PRE-INSTALLED SW, R13.7.1	\$	-
1061903300-01	Pluggable form fit 10GE NID 1310 Short distance (10km)	\$	476.00
1091903301-01	NIDPLUG, PRE-INSTALLED SW, R22.1.1	\$	-
1091904448-02	XG116PRO/XG120PRO, PRE-INSTALLED SW, R11.5.2	\$	-
1091904464-02	XG116PRO/XG120PRO, PRE-INSTALLED SW, R13.1.2	\$	-
1091904467-01	XG118PRO (CSH-G), PRE-INSTALLED SW, R21.5.1	\$	-
1091901128-01	FSP 150-XO126 Elephant LIC KEY.One license per system.	\$	102.00
1091904465-03	XG118PRO (SH)/XG120PRO (SH), PRE-INSTALLED SW, R13.1.3	\$	-
1091904464-03	XG116PRO/XG120PRO, PRE-INSTALLED SW, R13.1.3	\$	-
1091901129-01	FSP 150-XO106/XO126 EoMPLS LIC KEY. One license per system.	\$	42.50
1091904466-01	XG118PRO (CSH), PRE-INSTALLED SW, R21.5.1	\$	-

1078904473-01	XG118Pro (CSH) AC Chassis	\$	25,500.00
1091903300-01	NIDPLUG, Base Key must be ordered with each HW Sales item	\$	170.00
1091904442-01	XG116PRO/XG120PRO, PRE-INSTALLED SW, R11.1.1	\$	-
1091904445-01	Base Key must be ordered with each HW Sales item	\$	391.00
1091904455-02	XG116PRO/XG120PRO, PRE-INSTALLED SW, R12.1.2	\$	-
1091904480-01	XG118PRO (SH)/XG120PRO (SH), PRE-INSTALLED SW, R13.7.1	\$	-
1091901102-01	FSP 150-XO126 PTP LIC KEY.One license per system.	\$	204.02
1078904472-01	XG118Pro (CSH) DC Chassis	\$	25,500.00
1091904458-02	XG118PRO (SH)/XG120PRO (SH), PRE-INSTALLED SW, R11.6.2	\$	-
1091904457-02	XG116PRO/XG120PRO, PRE-INSTALLED SW, R11.6.2	\$	-
1091904464-01	XG116PRO/XG120PRO, PRE-INSTALLED SW, R13.1.1	\$	-
1091904470-01	XG116PRO/XG120PRO, PRE-INSTALLED SW, R11.7.1	\$	-
1091904448-01	XG116PRO/XG120PRO, PRE-INSTALLED SW, R11.5.1	\$	-
1078904867-01	NFV Server with Xeon 8 Cores 32G RAM, I-Temp	\$	6,597.70
1078904475-01	XG118Pro (CSH) AC Chassis	\$	17,000.00
1091901120-01	XO126, PRE-INSTALLED SW, R22.1.1	\$	-
1078901121-01	XO126 Dual AC 100W, Out-door device, with dual AC input, 8 x 1G/10G bps traffic fiber ports	\$	8,458.62
1078901122-01	XO126 Dual DC -48V 100W Input, Out-door device, with dual DC -48V input, 8 x 1G/10G bps traffic fiber ports	\$	8,382.12
1091901126-01	FSP 150-XO126, Base SW features,Must order one License for each chassis	\$	204.02
1091901127-01	FSP 150-XO126 25G LIC KEY. One license per system.	\$	102.00
1078901123-01	XO126 Dual AC 200W, Out-door device, with dual AC input, 8 x 1G/10G bps traffic fiber ports	\$	9,147.12
1078901124-01	XO126 Dual DC -48V 200W Input, Out-door device, with dual DC -48V input, 8 x 1G/10G bps traffic fiber ports	\$	9,070.62
1091904465-01	XG118PRO (SH)/XG120PRO (SH), PRE-INSTALLED SW, R13.1.1	\$	-
1091901059-01	FSP 150-XG1XXCSH Elephant Flows Control License Key. Must order one License for each chassis	\$	157.25
1091904449-02	XG118PRO (SH)/XG120PRO (SH), PRE-INSTALLED SW, R11.5.2	\$	-
1091904456-02	XG118PRO (SH)/XG120PRO (SH), PRE-INSTALLED SW, R12.1.2	\$	-
1078904474-01	XG118Pro (CSH) DC Chassis	\$	17,000.00
1078904470-02	XG118Pro (SH) DC Chassis. Supports SyncE capable electrical SFP	\$	3,986.50
1078904480-02	XG120Pro (SH) Basic Chassis only for DC. Supports SyncE capable electrical SFP	\$	3,665.20
1091901058-01	FSP 150-XG1XXCSH SYNC-E and PTP LIC KEY	\$	238.00
1091904471-01	XG118PRO (SH)/XG120PRO (SH), PRE-INSTALLED SW, R11.7.1	\$	-
1078904471-03	XG118Pro (SH) Basic Chassis - AC. Supports SyncE capable electrical SFP	\$	4,153.10
1078904481-03	XG120Pro (SH) Basic Chassis - AC. Supports SyncE capable electrical SFP	\$	3,489.25
1091904449-01	XG118PRO (SH)/XG120PRO (SH), PRE-INSTALLED SW, R11.5.1	\$	-
1078904868-01	NFV Server with Xeon 12 Cores 32G RAM, I-Temp	\$	8,041.00
1078904871-01	I-Temp 512G SSD for NFV Servers	\$	1,944.80
1078904460-02	XG120Pro Basic Chassis only for AC	\$	3,141.60
1042004470-01	XG118Pro (SH)/DC/FAN	\$	254.15
1078904471-01	XG118Pro (SH) AC Chassis	\$	4,153.10
1078904470-01	XG118Pro (SH) DC Chassis	\$	3,986.50
1013904473-01	Filler Card, DC FAN - XG118Pro (SH) chassis	\$	18.70
1042004471-01	XG118Pro (SH)/AC/FAN	\$	291.53
1091904440-01	ETHERJACK OS, XG118PRO (SH) and XG120Pro (SH), PTP License	\$	238.00

1091904439-01	XG118PRO (SH), PRE-INSTALLED SW, R10.6.1	\$	391.00
1091904438-01	XG100PRO, PRE-INSTALLED SW, R10.5.1	\$	391.00
1078904450-02	XG116Pro with integrated AC/DC PSU and fan assembly	\$	2,917.20
1078904461-02	XG120Pro Basic Chassis only for DC	\$	3,339.65
1078904462-02	XG120Pro Chassis KIT (AC)	\$	4,087.65
1078904463-02	XG120Pro Chassis KIT (DC)	\$	3,942.30
1091904438-04	XGPRO, PRE-INSTALLED SW, R10.5.4	\$	391.00
1091904447-01	XG100, SR-MPLS License	\$	102.00
1091904455-01	XG116PRO/XG120PRO, PRE-INSTALLED SW, R12.1.1	\$	-
1091904456-01	XG118PRO (SH)/XG120PRO (SH), PRE-INSTALLED SW, R12.1.1	\$	-
1091904457-01	XG116PRO/XG120PRO, PRE-INSTALLED SW, R11.6.1	\$	-
1091904458-01	XG118PRO (SH)/XG120PRO (SH), PRE-INSTALLED SW, R11.6.1	\$	-
1091904465-02	XG118PRO (SH)/XG120PRO (SH), PRE-INSTALLED SW, R13.1.2	\$	-
1078904480-01	XG120Pro (SH) Basic Chassis only for DC	\$	3,665.20
1078904869-01	NFV Server with Xeon 16 Cores 64G RAM, C-Temp	\$	12,581.70
1091904438-03	XG100PRO, PRE-INSTALLED SW, R10.5.3	\$	391.00
1078904481-01	XG120Pro (SH) Basic Chassis only for AC	\$	3,489.25
1091904438-02	XG100PRO, PRE-INSTALLED SW, R10.5.2	\$	391.00
1078904794-01	HS Fan Tray Module-Exhaust flow	\$	351.40
1078904426-01	Filler Card, PSU - XG chassis	\$	36.35
1091904454-01	XG210, PRE-INSTALLED SW, R13.7.1	\$	-
1091904453-03	XG210, PRE-INSTALLED SW, R13.1.3	\$	-
1091904453-01	XG210, PRE-INSTALLED SW, R13.1.1	\$	-
BC48003003-04	FSP 150-XG304/AC - Ethernet Services Demarcation - 8 ports 10G/1G 1U 9.5" switch with SFP+ ports enabled as 1G, AC PSU and US power cable, SW Rel.21.1.1 preinstalled, ADVA branded	\$	1,385.13
BC48003002-04	FSP 150-XG304/AC - Ethernet Services Demarcation - 8 ports 10G/1G 1U 9.5" switch with SFP+ ports enabled as 1G, AC PSU and EU power cable, SW Rel.21.1.1 preinstalled, ADVA branded	\$	1,383.43
BC48003500-04	FSP 150-XG304U/F - Modular Ethernet Services Demarcation - 8 ports 10G/1G 1U 19" OptiSwitch-V with a 10G license to enable the 10G SFP+ ports, with 10G OAM module and one slot for service module, SW Rel.21.1.1 preinstalled, ADVA branded	\$	3,457.78
BC48005103-04	AC hot swappable power supply for FSP 150-XG304U, FSP 150-XG304U/F, FSP 150-XG308 and FSP 150-XG308/F (90-240V AC), with US power cable, ADVA branded	\$	308.45
1048004960-04	NFV server module for FSP 150-XG304U and FSP 150-XG304U/F, with 8xCore X86 Xeon-D, 32GB DDR4 and 1TB SSD, ADVA branded	\$	10,740.30
BC48004050-04	FSP 150-XG304/DC - extended temperature Ethernet Services Demarcation - 8 ports 10G/1G 1U 9.5" switch with SPF+ ports enabled as 1G and with DC PS, SW Rel.21.1.1 preinstalled, ADVA branded	\$	1,899.67
BC48003102-04	FSP 150-XG304/F/AC - Ethernet Services Demarcation - 8 ports 10G/1G 1U 9.5" switch with a 10G license to enable the 10G SFP+ ports, with 10G OAM module, AC PSU and EU power cable, SW Rel.21.1.1 preinstalled, ADVA branded	\$	2,732.67
BC48003103-04	FSP 150-XG304/F/AC - Ethernet Services Demarcation - 8 ports 10G/1G 1U 9.5" switch with a 10G license to enable the 10G SFP+ ports, with 10G OAM module, AC PSU and US power cable, SW Rel.21.1.1 preinstalled, ADVA branded	\$	2,734.37
1048005299-04	Rack Mounting Kit 19" for devices with 217.6 mm width. Used to mount a single device on 1RU into a 19" rack. ADVA branded	\$	18.63
1048005550-04	DC hot extended temperature swappable power supply for FSP 150-XG304U, FSP 150-XG304U/F, FSP 150-XG308 and FSP 150-XG308/F (-48V DC), ADVA branded	\$	704.23
1048005401-04	Rack Mounting Kit 19" for devices with 438.66 mm width. ADVA branded	\$	22.35

BC48003050-04	FSP 150-XG304/DC - Ethernet Services Demarcation - 8 ports 10G/1G 1U 9.5" switch with SFP+ ports enabled as 1G and with DC PS, SW Rel.21.1.1 preinstalled, ADVA branded	\$	1,521.20
BC48003150-04	FSP 150-XG304/F/DC - Ethernet Services Demarcation - 8 ports 10G/1G 1U 9.5" switch with a 10G license to enable the 10G SFP+ ports, with 10G OAM module and with DC PS, SW Rel.21.1.1 preinstalled, ADVA branded	\$	2,870.48
BC48003400-04	FSP 150-XG304U - Modular Ethernet Services Demarcation - 8 ports 10G/1G - 1U 19" with one slot for service module, SFP+ ports enabled as 1G, SW Rel.21.1.1 preinstalled, ADVA branded	\$	2,115.30
BC48004003-04	FSP 150-XG304/AC - extended temperature Ethernet Services Demarcation - 8 ports 10G/1G 1U 9.5" switch with SFP+ ports enabled as 1G, AC PSU and US power cable, SW Rel.21.1.1 preinstalled, ADVA branded	\$	1,947.50
BC48003700-04	FSP 150-XG308 - Ethernet Services Demarcation 20 ports 10G/1G - 1U 19" switch with SFP+ ports enabled as 1G, SW Rel.21.1.1 preinstalled, ADVA branded	\$	3,150.08
BC48005502-04	AC hot swappable extended temperature power supply for the OptiSwitch V Modular (90-240V AC), with EU power cable, ADVA branded	\$	588.72
BC48004102-04	FSP 150-XG304/F/AC - extended temperature Ethernet Services Demarcation - 8 ports 10G/1G 1U 9.5" switch with a 10G license to enable the 10G SFP+ ports, with 10G OAM module, AC PSU and EU power cable, SW Rel.21.1.1 preinstalled, ADVA branded	\$	3,314.45
BC48004002-04	FSP 150-XG304/AC - extended temperature Ethernet Services Demarcation - 8 ports 10G/1G 1U 9.5" switch with SFP+ ports enabled as 1G, AC PSU and EU power cable, SW Rel.21.1.1 preinstalled, ADVA branded	\$	1,945.78
BC48004400-04	FSP 150-XG304U - modular extended temperature Ethernet Services Demarcation - 8 ports 10G/1G - 1U 19" OptiSwitch-V with one slot for service module with SFP+ ports enabled as 1G, SW Rel.21.1.1 preinstalled, ADVA branded	\$	2,332.02
BC48004150-04	FSP XG304/FC/DC/EXT - extended temperature Ethernet Services Demarcation - 8 ports 10G/1G 1U 9.5" switch with a 10G license to enable the 10G SFP+ ports, with 10G OAM module and with DC PS, SW Rel.21.1.1 preinstalled, ADVA branded	\$	3,268.38
BC48005503-04	AC hot swappable extended temperature power supply for the OptiSwitch V Modular (90-240V AC), with US power cable, ADVA branded	\$	590.42
BC48004500-04	FSP 150-XG304U/F - modular extended temperature Ethernet Services Demarcation - 8 ports 10G/1G, 1U 19" with a 10G license to enable the 10G SFP+ ports, with 10G OAM module and one slot for service module, SW Rel.21.1.1 preinstalled, ADVA branded	\$	3,693.88
BC48004103-04	FSP 150 XG304/F/AC/EXT - extended temperature Ethernet Services Demarcation - 8 ports 10G/1G 1U 9.5" switch with a 10G license to enable the 10G SFP+ ports, with 10G OAM module, AC PSU and US power cable, SW Rel.21.1.1 preinstalled, ADVA branded	\$	3,316.17
BC48003800-04	FSP 150-XG308/F - Ethernet Services Demarcation 20 ports 10G/1G - 1U 19" switch with a 10G license to enable the 10G SFP+ ports and with 10G OAM module, SW Rel.21.1.1 preinstalled, ADVA branded.	\$	5,891.25
BC48005102-04	AC hot swappable power supply for FSP 150-XG304U, FSP 150-XG304U/F, FSP 150-XG308 and FSP 150-XG308/F (90-240V AC), with EU power cable, ADVA branded	\$	306.75
1048004970-04	NFV server module for FSP 150-XG304U and FSP 150-XG304U/F, with 12xCore X86 Xeon-D, 32GB DDR4 and 1TB SSD, ADVA branded	\$	13,032.47
1048005150-04	DC hot swappable power supply for FSP 150-XG304U, FSP 150-XG304U/F, FSP 150-XG308 and FSP 150-XG308/F (-48V DC), ADVA branded	\$	676.07
1048004950-04	NFV server module for FSP 150-XG304U and FSP 150-XG304U/F, with 8xCore X86 Xeon-D, 16GB DDR4 and 256GB SSD, ADVA branded	\$	10,675.17
1048005400-04	Fan Tray (including Filter) for FSP 150-XG308 and FSP 150-XG308/F models, ADVA branded	\$	470.60
BC48005202-01	Optional desktop AC (90-240V AC) to 12VDC power supply for OS-V8 series - 1pin connector, with EU power cable	\$	148.13
BC48005203-01	Optional desktop AC (90-240V AC) to 12VDC power supply for OS-V8 series - 1pin connector, with US power cable	\$	149.85
1091480141-01	10GE License for the OS-V8 SFP+ ports	\$	918.52
1091480142-01	10GE License for the OS-V20 SFP+ ports	\$	2,314.47

1091480154-01	Layer-3 IPv4 and IPv6 License for 1G OptiSwitch 9xx and OS-Vx Series. Supporting both Layer-3 IPv4 and IPv6 protocol stack with OSPFv2, OSPFv3, ISIS, BGP4, BGP4	\$	551.35
1091480150-01	MPLS License for 1G OptiSwitch 9xx and OS-Vx Series. Supporting MPLS and Layer-3 IPv4 / IPv6, with L3 and L2VPN/VPLS protocols stacks, with OSPFv2, OSPFv3, ISIS, BGP4, BGP4, LDP RSVP, RSVP-TE and signaling over BGP	\$	826.42
1091480156-01	Layer-3 IPv4 and IPv6 License for 10G OptiSwitch 9xx and OS-Vx Series. Supporting both Layer-3 IPv4 and IPv6 protocol stack with OSPFv2, OSPFv3, ISIS, BGP4, BGP4	\$	1,652.85
1091480155-01	MPLS License for 10G OptiSwitch 9xx and OS-Vx Series. Supporting MPLS and Layer-3 IPv4 / IPv6, with L3 and L2VPN/VPLS protocols stacks, with OSPFv2, OSPFv3, ISIS, BGP4, BGP4, LDP RSVP, RSVP-TE and signaling over BGP	\$	2,478.05
1048004980-04	NFV server module for FSP 150-XG304U and FSP 150-XG304U/F, with 16xCore X86 Xeon-D, 64GB DDR4 and 1TB SSD, ADVA branded	\$	21,374.63
1091480497-01	FSP 150-XG300 Pre-installed SW, Rel.20.1.1	\$	-
1091480498-01	FSP 150-XG300 Pre-installed SW, Rel.20.2.1	\$	-
1091480500-01	FSP 150-XG300 Pre-installed SW, Rel.22.1.1	\$	-
1048004975-04	NFV server module for FSP 150-XG304U and FSP 150-XG304U/F, with 16xCore X86 Xeon-D, 32GB DDR4 and 256GB SSD, ADVA branded	\$	18,040.28
1091480496-03	FSP 150-XG300 Pre-installed SW, Rel.19.6.3	\$	-
1048004976-04	NFV server module for FSP 150-XG304U and FSP 150-XG304U/F, with 16xCore X86 Xeon-D, 32GB DDR4 and 512GB SSD, ADVA branded	\$	9,642.90
1091480497-02	FSP 150-XG300 Pre-installed SW, Rel.20.1.2	\$	-
1078901501-01	FSP 150-XG312/F - Extended temperature, Ethernet Services aggregation device: 40x ports of 1G and 12 ports of 1/10G - 2U 19" switch with 10G license and OAM module. Includes basic chassis, one PSU filler and 19" brackets.	\$	6,361.37
1048005510-01	XG312 Fan EXH Module	\$	993.53
1091480495-01	FSP 150-XG300 Pre-installed SW, Rel.19.5.1.	\$	-
1091480496-02	FSP 150-XG300 Pre-installed SW, Rel.19.6.2	\$	-
1048005040-01	Pluggable Module for FSP 150-XG304U and FSP 150-XG304U/F, with 4C X86 CPU and 5G/LTE modem for wireless backup	\$	4,155.55
1091480201-01	License for XG308 to enable all 8 SFP+/10GE ports at 10G speed. W/o this license, ports are just with 1G speed	\$	2,314.47
1091480220-01	License for 1G, XG300 enables MPLS with LDP RSVP, RSVP-TE and signaling over BGP .F150/XG300/1G-L3/KEY is mandatory to use this key	\$	275.40
1091480221-01	License for 1G, XG300 enables Layer-3 IPv4 / IPv6 protocol stacks, with OSPFv2, OSPFv3, ISIS and BGP4.	\$	550.80
1091480222-01	License for 10G, XG300 enables MPLS with LDP RSVP, RSVP-TE and signaling over BGP . F150/XG300/10G-L3/KEY is mandatory to use this key	\$	826.20
1091480223-01	License for 10G, XG300 enables Layer-3 IPv4 / IPv6 protocol stacks, with OSPFv2, OSPFv3, ISIS and BGP4.	\$	1,652.40
1091480200-01	License for XG304 to enable all 4 SFP+/10GE ports at 10G speed. W/o this license, ports are just with 1G speed	\$	918.52
1048004201-01	FSP 150-XG304H/F - Extended temperature, Ethernet Services demarcation device: 4 ports of 1G and 4 ports of 1/10G - 1U 19" switch with SFP+ enabled as 1G and OAM module. ETSI 300 depth. Includes basic chassis, one PSU filler and 19" brackets	\$	2,932.77
1048003901-01	FSP 150-XG308H/F - Extended temperature, Ethernet Services demarcation device: 12 ports of 1G and 8 ports of 1/10G - 1U 19" with SFP+ enabled as 1G and OAM module. ETSI 300 depth. Includes basic chassis, one PSU filler and 19" brackets.	\$	3,478.17
1091480496-01	FSP 150-XG300 Pre-installed SW, Rel.19.6.1	\$	-
1091480499-01	FSP 150-XG300 Pre-installed SW, Rel.21.1.1	\$	-
1013900001	FSP 150-XG480 Filler Card, PSU slot	\$	35.70
1040904080-01	FSP 150-XG480/XG312 750Watt AC power supply	\$	555.90
1013900002	FSP 150-XG480 Fan Tray Module-filter replacement	\$	11.90

1040904081-01	FSP 150-XG480/XG312 750Watt DC power supply	\$	555.90
1078901001-01	FSP 150-XG480 Carrier Ethernet Aggregation Device 2RU 52x10G + 4x100G (QSF28)	\$	19,143.70
1091901031-01	FSP 150-XG480 Full Capacity LIC KEY	\$	3,570.00
1078901002-01	FSP 150-XG480 Carrier Ethernet Aggregation Device 2RU 52x10G + 8x25G + 2x100G (QSFP28)	\$	19,595.90
1078901010-01	FSP 150-XG480 Carrier Ethernet Aggregation Device 2RU 52x10G + 4x100G (QSF28) NEBS variant with rear DC inlet	\$	19,350.25
1042201000-01	FSP 150-XG480 Fan Tray Module	\$	442.85
1091901001-01	FSP 150-XG480, Base SW features, Must order one License for each XG480 chassis	\$	2,890.00
1078901011-01	FSP 150-XG480 Carrier Ethernet Aggregation Device 2RU 52x10G + 8x25G + 2x100G (QSFP28) NEBS variant with rear DC inlet	\$	19,805.85
1091901035-01	FSP 150-XG4XX EoMPLS LIC KEY	\$	2,040.00
1091901033-01	FSP 150-XG4XX L3 LIC KEY	\$	2,040.00
1091901032-01	FSP 150-XG4XX SYNC-E and PTP LIC KEY	\$	2,040.00
1091901009-01	FSP 150-XG480, XG404 and XG418 Pre-installed SW, R19.2.1	\$	-
1091901056-01	XG4XX Multicast Routing (PIM) Control License Key.	\$	2,805.00
1091901057-01	XG4XX Segment Routing License Key.	\$	2,040.00
1078901056-02	FSP 150-XG418 Carrier Ethernet Aggregation Device 1RU 12 x SFP+ 4 x SFP28 and 2 x CFP2, C-Temp	\$	10,167.78
1078901001-02	FSP 150-XG480 Carrier Ethernet Aggregation Device 2RU 52x10G + 4x100G (QSF28)	\$	19,143.70
1078901003-01	FSP 150-XG480 Carrier Ethernet Aggregation Device 2RU 52x10G + 4x100G (2xQSF28+2xCFP2)	\$	20,105.90
1078901012-01	FSP 150-XG480 Carrier Ethernet Aggregation Device 2RU 52x10G + 4x100G (2xQSF28+2xCFP2), NEBS variant with rear DC inlet	\$	20,315.85
1091901011-01	FSP 150-XG480, XG404 and XG418 Pre-installed SW, R20.1.1	\$	-
1078901011-02	FSP 150-XG480 Carrier Ethernet Aggregation Device 2RU 52x10G + 8x25G + 2x100G (QSFP28) NEBS variant with rear DC inlet	\$	19,805.85
1078901003-02	FSP 150-XG480 Carrier Ethernet Aggregation Device 2RU 52x10G + 4x100G (2xQSF28+2xCFP2)	\$	20,105.90
1078901060-01	FSP 150-XG490 Carrier Ethernet Aggregation Device 1RU 4x25G + 22x100G(QSFP28) + 4x400G (QSFDD), dual PSUs pluggable, 3 pluggable Fan Trays, C-Temp	\$	26,935.65
1091901013-03	FSP 150-XG480, XG404 and XG418 Pre-installed SW, R19.7.3	\$	-
1078901002-02	FSP 150-XG480 Carrier Ethernet Aggregation Device 2RU 52x10G + 8x25G + 2x100G (QSFP28)	\$	19,595.90
1091901016-01	FSP 150-XG480, XG404, XG418 and XG490 Pre-installed SW, R23.1.1	\$	-
1091901012-01	FSP 150-XG480, XG404 and XG418 Pre-installed SW, R19.6.1	\$	-
1091901012-02	FSP 150-XG480, XG404 and XG418 Pre-installed SW, R19.6.2	\$	-
1013901010-01	Airflow Module to attach to XG404/418 Chassis	\$	28.05
1091901013-01	FSP 150-XG480, XG404 and XG418 Pre-installed SW, R19.7.1	\$	-
1091901013-02	FSP 150-XG480, XG404 and XG418 Pre-installed SW, R19.7.2	\$	-
1078901052-01	FSP 150-XG418 Carrier Ethernet Aggregation Device 1RU 12 x SFP+ 4 x SFP28 and 2 x CFP2	\$	10,413.35
1091901050-01	FSP 150-XG404 and XG418, Base SW features, Must order one License for each chassis	\$	1,615.00
1091901004-01	FSP 150-XG480, XG404 and XG418 Pre-installed SW, R19.1.1	\$	-
1091901036-01	FSP 150-XG4XX Control PLane LIC KEY	\$	3,910.00
1091901007-01	FSP 150-XG480, XG404 and XG418 Pre-installed SW, R19.5.1	\$	-
1078901057-01	FSP 150-XG418 Carrier Ethernet Aggregation Device 1RU 12 X SFP+ 4 X SFP28 and 2 x QSF28, C-Temp	\$	9,689.15
1078901053-02	FSP 150-XG418 Carrier Ethernet Aggregation Device 1RU 12 X SFP+ 4 X SFP28 and 2 x QSF28	\$	8,523.40



1078901057-02	FSP 150-XG418 Carrier Ethernet Aggregation Device 1RU 12 X SFP+ 4 X SFP28 and 2 x QSF28, C-Temp	\$	9,295.48
1078901010-02	FSP 150-XG480 Carrier Ethernet Aggregation Device 2RU 52x10G + 4x100G (QSF28) NEBS variant with rear DC inlet	\$	19,350.27
1091901015-01	FSP 150-XG480,XG404 and XG418 Pre-installed SW, R22.1.1	\$	-
1091901051-01	XG404/XG418 Elephant Flows Control License Key. Must order one License for each chassis	\$	2,040.00
1078901012-02	FSP 150-XG480 Carrier Ethernet Aggregation Device 2RU 52x10G + 4x100G (2xQSF28+2xCFP2), NEBS variant with rear DC inlet	\$	20,315.85
1078901052-02	FSP 150-XG418 Carrier Ethernet Aggregation Device 1RU 12 x SFP+ 4 x SFP28 and 2 x CFP2	\$	9,229.87
1091901011-02	FSP 150-XG480,XG404 and XG418 Pre-installed SW, R20.1.2	\$	-
1078901053-01	FSP 150-XG418 Carrier Ethernet Aggregation Device 1RU 12 X SFP+ 4 X SFP28 and 2 x QSF28	\$	9,548.90
1078901056-01	FSP 150-XG418 Carrier Ethernet Aggregation Device 1RU 12 x SFP+ 4 x SFP28 and 2 x CFP2, C-Temp	\$	10,416.75
1091901004-02	FSP 150-XG480,XG404 and XG418 Pre-installed SW, R19.1.2	\$	-
1013901001-01	Airflow Module to attach to NEBS XG480 Chassis	\$	77.35
1091901003-01	FSP 150-XG480, Pre-installed SW, R18.5.1	\$	-
1091901011-03	FSP 150-XG480, XG404 and XG418 Pre-installed SW, R20.1.3	\$	-
1078901055-02	FSP 150-XG404 Carrier Ethernet Aggregation Device 1RU 2x100G (QSF28) and 2 x 100G(CFP2), C-Temp	\$	9,743.32
1078901051-02	FSP 150-XG404 Carrier Ethernet Aggregation Device 1RU 2x100G (QSF28) and 2 x 100G(CFP2)	\$	8,101.80
1078901055-01	FSP 150-XG404 Carrier Ethernet Aggregation Device 1RU 2x100G (QSF28) and 2 x 100G(CFP2), C-Temp	\$	10,024.05
1078901050-01	FSP 150-XG404 Carrier Ethernet Aggregation Device 1RU 4x100G (QSF28)	\$	9,334.70
1078901051-01	FSP 150-XG404 Carrier Ethernet Aggregation Device 1RU 2x100G (QSF28) and 2 x 100G(CFP2)	\$	10,024.05
1078901054-01	FSP 150-XG404 Carrier Ethernet Aggregation Device 1RU 4x100G (QSF28), C-Temp	\$	9,330.45
1078901054-02	FSP 150-XG404 Carrier Ethernet Aggregation Device 1RU 4x100G (QSF28), C-Temp	\$	9,050.15
1078901050-02	FSP 150-XG404 Carrier Ethernet Aggregation Device 1RU 4x100G (QSF28)	\$	7,474.77
1048000508-01	Standalone 1RU 40-Channel DWDM MUX and DeMUX, C-Band 100GHz Channels #21-60 , with monitor ports, industrial temperature -40C to +85C	\$	23,758.59
BC00000690	Bundle of QuadFlex-S (F8/MP-2B4CT-S, single fiber working) and port license for one client port (1P). Quadflex: QPSK or 16QAM format, 1 QSFP28 clients with any combination of OTU-4/100GE services	\$	52,880.11
1063804321-02	Amplifier Single Stage >23dBm, Low gain, integrated OSC, C-Band. IN-APR Shelf 12HU. For DC front, AC or mixed. Includes PFMF with 8xSubD 2W2 connectors and 19" rack adaptor brackets (EIA/Weco), ETSI and 23" rack adapters, side air shields, Upper Shelf Front Cover, Shelf Front Cover Extension and ground cable	\$	13,148.11
1078800021-02	Power Supply Module, 1200W, AC 110/220V with dual decoupled inlet for A/B for SH12	\$	1,520.90
1040800066-01	Kit containing air filter pads for SH1R	\$	30.50
1013800066-01	19"/23" and ETSI Guide Rail kit for SH1R with 4 post racks 400 to 534mm post distance	\$	317.05
1013800067-01	19"/23" and ETSI Guide Rail kit for SH1R with 4 post racks 534 to 800mm post distance	\$	316.95
1013800068-01	Breakout Tray-BOX 1HU -Multimode 50u, 4 x MPO24 fan out to 96 x LC	\$	2,984.90
1013800070-01	Breakout Tray-BOX 1HU - Singlemode, 4 x MPO24 fan out to 96 x LC	\$	3,372.34
1013800069-01	Shelf Kit SH1R with Base License, CEM-6, 2 x PSM-AC3, 3 x FTM-3, ECM-6, SC-XCM3	\$	7,938.11
BC00000483	Power Supply Module, 1200W, DC 48/60V for SH12	\$	1,449.98
1040800021-01	Fan Tray Module for SH12	\$	773.98
1042800022-01	Slot cover for traffic module	\$	37.20
1063801091-01	Slot cover for ECM/SCM slot	\$	37.30

1063802161-01	Open fabric 400G: 2xQSFP28 OTU4; client: 2xQSFP28, 3xQSFP+ IF, 20x10GE/OTU2/OTU2e/STM64/OC192/8GFC; 2xOTU4, 6x25GE/32GFC, 4x40GE, 2x100GE, 12x16GFC. No encryption.	\$	12,661.77
1042800054-01	Fan Tray Module for SH4R	\$	538.72
1091802104-01	Right to use one F8/MP-2B4CT (Quadflex) or F8/MP-2B4CT-S (Quadflex-S) client port	\$	12,878.90
1013800024-01	Air filter pads for SH12: Kit containing 10 air filter pads for card cage and for PSMs	\$	200.46
1013800054-01	Air filter pads for SH4R: Kit contains 10 sets of air filters supporting 10 replacement cycles	\$	29.79
1063801093-01	Slot cover for PSM	\$	16.21
1091806131-01	SW to configure one non-ADVA QSFP 10/14/28. CAUTION! Ensure that 3rd party QSFP comply with all relevant standards to prevent damages and accidents. The operating organization has the responsibility for the laser safety of the end-to-end system.	\$	1,059.56
1091701905	Right to use per Fiber Channel/FICON client service for FSP 3000R7 and FSP 3000 C (selected cards).	\$	218.42
1063805131-01	Filter mux/demux 48 channels DWDM with MPO connectors, C-Band, 100GHz spacing, single slot line card	\$	11,852.42
1040800054-01	Power Supply Module, 800W, DC 48/60V for SH4R	\$	1,274.99
1040800065-01	Power Supply Module, 1450W, AC 110/220V for SH4R, with integrated fan, can be mixed with PSM-AC4, DC4	\$	1,164.15
1013800065-01	1HU Fiber tray with 200mm deep drawer, for use above or below SH4R, below SH3, below SH2*, or below Teraflex: supporting 19", 23" and ETSI normal or revers mountable brackets	\$	251.33
1013800060-01	19"/23" and ETSI brackets for 2 post mid mount position for SH1R (complies with ETSI 300 119-6/7 new standard 210mm bracket /rack distance); used for 2 post instead of guide rail kit (4 post)	\$	60.48
1063802171-01	Cryptomux OTN ADM Line: 2xQSFP28 OTU4 Client: 2xQSFP28, 3xQSFP10 IF, 20x10GE OTU2, OTU2e, STM64, OC192; 4x40GE, 6xFC-32G, 12xFC-16G,6x25GE, 2x100GE, OTU4, with encryption	\$	53,157.83
BC00000317	Bundle of QuadFlex (F8/MP-2B4CT. HW2.01) and card license for four client ports (4P). Quadflex: Any line format, 4 QSFP28 clients with any combination of OTU-4/100GE services.	\$	68,229.05
1013800062-02	Guide Rail kit for 4 post racks 400..570mm post distance	\$	375.14
1013800064-02	Guide Rail kit for 4 post racks 570..800mm post distance	\$	376.42
1078800052-01	Shelf 4HU 600mm depth, rear access for power, 19" adaptor brackets (EIA), shelf front cover, shelf front cover extension and grounding cable included, Modification for longer fiber fingers; with DC 2W2 connectors at back side	\$	3,406.97
1063804391-01	Amplified filter module for 40 DWDM channels providing low gain pre-amplification and DWDM multiplexing and de-multiplexing with integrated measurement of chromatic dispersion. Interstage access for DC modules	\$	22,464.84
1063804311-01	Booster amplifier with integrated tunable dispersion compensation and OSC function	\$	18,457.16
1063804122-01	Preamplifier, high gain, no interstage, with integrated OSC, for boosterless operation, C-Band	\$	10,979.33
1091802108-01	Right to use (a) cross connection between the line ports (as for add-drop or OTN XC function) or (b) cross connections between line ports and OTU4 client ports on OpenFabric family F8/MA-2C5LT,F8/MA-B5CLT F8/MA-2C2C3LT-A,F8/MA-B2C3LT-A,F8/OF-2D16DCT.	\$	2,529.52
BC00000371	Bundle of QuadFlex (F8/MP-2B4CT. HW2.01) and card license for two client ports (2P). Quadflex: Any line format, 2 QSFP28 clients with any combination of OTU-4/100GE services.	\$	52,936.23
BC00000326	Bundle of QuadFlex (F8/MP-2B4CT. HW2.01) with 4 MicroMux and 4 Client Port RTUs	\$	139,274.15
BC00000318	Bundle of QuadFlex (F8/MP-2B4CT. HW2.01) and card license for one client port (1P). Quadflex: Any line format, 1 QSFP28 clients with any combination of OTU-4/100GE services.	\$	43,861.41

1063801098-01	Slot cover for ECM-3/SCM-3 slot in SH1R shelf	\$	32.21
1042800083-01	Fan Tray Module for SH1R	\$	246.82
1040800093-01	Power Supply Module, 480W, AC 110V/240V for SH1R	\$	535.09
1063803171-01	Shuffle Module with single mode fiber shuffle with 7 MPO12 connectors, with power monitoring	\$	11,650.15
1063803161-01	16x8 passive Splitter & Combiner for Route and Select ROADM, 16 Clients for 8 directions, with Monitoring diodes, LC connectors	\$	9,203.70
1063803172-01	Shuffle Module with single mode MPO12 breakout to 12 LCs with power monitoring	\$	4,001.10
1063801073-01	Shelf Controller Module for SH1R	\$	1,982.48
1040800083-01	Power Supply Module, 480W, DC 48/60V for SH1R	\$	464.88
1063801099-01	Slot cover for PSM slot in SH1R	\$	46.44
1063804351-01	Switchable Gain low gain EDFA amplifier with integrated Raman amplifier and OSC function for extended reach application	\$	33,712.25
BC00000689	Bundle of QuadFlex-S (F8/MP-2B4CT-S, single fiber working) and port licenses for two client ports (2P). Quadflex: QPSK or 16QAM format, 2 QSFP28 clients with any combination of OTU-4/100GE services	\$	63,456.19
BC00000688	Bundle of QuadFlex-S (F8/MP-2B4CT-S, single fiber working) and port licenses for four client ports (4P). Quadflex: QPSK or 16QAM format, 4 QSFP28 clients with any combination of OTU-4/100GE services	\$	79,320.38
1063801096-01	slot cover for SH3 Power supply slot	\$	47.45
1078800022-01	SH3 3HU 300mm deep shelf with 4 high power slots with Front Access for AC or DC PSM, FTM, ECM, includes 19", ETSI and 23" Brackets, side air shields, Front Cover and Grounding cables	\$	2,347.79
1040800055-01	Power Supply Module 900W, DC 48/60V for SH3	\$	906.21
1042800023-01	Fan Tray Module for SH3	\$	647.47
1091800031-01	SW for Release 3.1.1 preinstalled	\$	-
1091802117-01	Right to use the submarine mode on TeraFlex Multiplexers (T-MP-2D8CT).	\$	11,420.88
1040800057-01	Power Supply Module, 1450W, DC 48/60V for SH4R-3	\$	1,593.85
1063802173-01	OpenFabric1200: Line: 2xCFP2-DCO; Client/Line: 2xQSFP56-DD, 6xQSFP28; Client: 4xSFP56-DD, 4xSFP28. Max capacity Clients: 600G, Line: 600G	\$	30,244.32
1091800055-01	SW for Release 5.5.1 preinstalled	\$	-
1091800045-02	SW for Release 4.5.2 preinstalled	\$	-
1063805139-01	8ch 200GHz WDM Mux/demux with AUX port, LC connectors	\$	3,200.00
1063800022-03	Common Equipment Module for SH12	\$	1,583.92
1063801101-01	1HU Fiber tray with 200mm deep drawer, for optional use below Teraflex with frontcover T-SA-COVER: supporting 19",23" and ETSI normal or revers mountable brackets and accessory kit for mounting below Teraflex Shelf T-SH1R-2 with front cover.	\$	442.23
1063801080-01	Teraflex Element Controller Module, Main shelf/NE controller module. for T-SH1R-2	\$	2,644.78
1042800087-01	Teraflex Fan Tray Module for T-SH1R-2	\$	280.11
BC00000747	TeraFlex bundle including TeraFlex 1200G Multiplexer (T-MP-2D12CT with 2x Integrated C-Band Tunable Line Ports and 12x QSFP28 Client Ports), and card licenses (RTU/T-MP-2D12CT/CLIENT PORT) for 12 client ports.	\$	103,356.88
1040800097-01	Teraflex Power Supply Module, 990W, AC 110/220V, HVDC 240V for T-SH1R-2	\$	1,401.68
1063801094-01	Traffic Module Slot Cover for FSP 3000 C 1HU TeraFlex Shelf	\$	732.44
BC00000746	TeraFlex bundle including TeraFlex 1200G Multiplexer (T-MP-2D12CT with 2x Integrated C-Band Tunable Line Ports and 12x QSFP28 Client Ports), and card licenses (RTU/T-MP-2D12CT/CLIENT PORT) for two client ports.	\$	66,443.28
1091802109-01	Right to use one client port on F8/T-MP-2D12CT and F8/T-MP-2D8CT (TeraFlex Multiplexer)	\$	4,433.85
1063801022-03	Shelf Controller Module	\$	1,936.59
1063801080-02	Teraflex Element Controller Module, Main shelf/NE controller module. for T-SH1R-2	\$	2,571.85

1078800081-02	Shelf 1HU 600mm deep for DC or AC rear access. Includes rack adaptor brackets, Grounding cables and air filters.	\$	2,129.10
1063801066-01	Element controller module, Main shelf/NE controller module. for SH1R.	\$	2,270.00
1063803163-01	8x4 passive Splitter & Combiner for Route and Select ROADM, 8 Clients for 4 directions, with monitoring diodes, LC connectors	\$	6,400.00
1078800111-01	EdgeFlex 2HU shelf with air filter over -5 to +55°C, with 3x QSFP OTU4/100G network interfaces and 10GE, 25GE, 100GE client interfaces	\$	14,632.00
1063803152-01	4-Degree ROADM Module for FSP 3000 C, WSS-Based, Flexgrid Extended C-Band, Broadcast & Select with Integrated OCM, with 1x LC Duplex Network Connector and 4x LC Duplex Client Connectors	\$	15,733.33
1063008905-01	Mini patch panel module - SM fiber, 12 LC to 12 LC, 1-slot module for SH1HU/LGX shelves	\$	800.00
1063803153-01	32-Degree ROADM Module for FSP 3000 C, WSS-Based, Flexgrid Extended C-Band, with Route & Select Twin WSS and Integrated OCM, with 1x LC Duplex Network Connector and 32x Duplex SN Client Connectors	\$	48,000.00
1063803164-01	8x8 passive Splitter & Combiner for Route and Select ROADM, 8 Clients for 8 directions, with monitoring diodes, LC connectors	\$	6,933.33
1040800098-01	Teraflex Power Supply Module, 1100W, DC 48/60V for T-SH1R-2	\$	2,076.55
BC00001014	TeraFlex bundle including TeraFlex 800G Multiplexer (T-MP-2D8CT with 2x Integrated C-Band Tunable Line Ports and 8x QSFP28 Clients), and card licenses (RTU/MP-2D12CT/CLIENT PORT) for eight client ports.	\$	89,914.90
1063804101-02	Amplifier Single Stage >23dBm, high gain, integrated OSC, C-Band. IN-APR.	\$	13,247.81
BC00001123	TeraFlex bundle including TeraFlex 800G CoreChannel Multiplexer (F8/T-MP-M8DCT with 800G Line Port and 8xQSFP28, 2x QSFP56-DD Client Ports), and card licenses (F8/RTU/T-100G/CAPACITY) for 8 client ports (8x 100G or 2x 400G).	\$	89,787.18
1063802124-01	S-Flex with 1xCFP2 400G network interface and 19 client interfaces with encryption. Full technical compliance with BSI security Profile acc. to VS-NfD. - 200G client capacity , license required for upgrade to 400G client capacity	\$	87,125.33
1078800100-01	Flexible trans/muxponder for aggregation of GbE and 10G services, 1RU with dual PSUs pluggable, passively cooled, extended temp supported (-40C to +65C).	\$	2,613.33
BC00001162	S-Flex with 1xCFP2 400G network interface and 19 client interfaces with encryption. Includes license required for 400G client capacity	\$	90,444.00
BC00001122	TeraFlex bundle including TeraFlex 800G FlexClient Multiplexer (F8/T-MP-2D8DCT with 2x400G Line Ports and 8xQSFP28, 2x QSFP56-DD Client Ports), and card licenses (F8/RTU/T-100G/CAPACITY) for 4 client ports (4x 100G or 1x 400G).	\$	71,457.60
BC00001163	S-Flex with 1xCFP2 400G network interface and 19 client interfaces with encryption. Full technical compliance with BSI security Profile acc. to VS-NfD. Includes license required for 400G client capacity	\$	120,592.00
BC00001124	TeraFlex bundle including TeraFlex 800G FlexClient Multiplexer (F8/T-MP-2D8DCT with 2x400G Line Ports and 8xQSFP28, 2x QSFP56-DD Client Ports), and card licenses (F8/RTU/T-100G/CAPACITY) for 8 client ports (8x 100G or 2x 400G).	\$	89,787.18
1091806133-01	SW to configure one non-ADVA SFP+, SFP28 or SFP56. CAUTION! Ensure that 3rd party QSFP comply with all relevant standards to prevent damages and accidents. The operating organization is responsible for the laser safety of the end-to-end system.	\$	338.63
1063802123-01	S-Flex with 1xCFP2 400G network interface and 19 client interfaces with encryption - 200G client capacity , license required for upgrade to 400G client capacity	\$	56,977.33
1063801054-02	Common Equipment Module for SH4R	\$	1,071.85
BC00001172	TeraFlex bundle including TeraFlex 1200G Multiplexer (T-MP-2D12CT with 2x Integrated C-Band Tunable Line Ports and 12x QSFP28 Client Ports), and card licenses (RTU/T-MP-2D12CT/CLIENT PORT) for 12 client ports + 12x non-approved pluggables QSFP LIC	\$	127,118.50
1013800076-01	19"/23" and ETSI Guide Rail kit for SH1R with 4 post racks 684 to 950mm post distance	\$	316.95
1078800084-01	1HU slimline shelf w/ management connectivity for 1x 2-slot or 2x 1-slot passive OLS modules with fiber management	\$	453.33

1063805132-01	48 channel filter C-Band with 100GHz spacing, 2HU shelf with IN-APR 1510nm loop, LC connectors	\$	7,112.29
1078800110-01	EdgeFlex 1HU shelf for street cabinet (no air filter) -40 to +65°C, with 3x QSFP OTU4/100G network interfaces and 10GE, 25GE, 100GE client interfaces	\$	14,632.00
1091802122-01	RTU to use FibreChannel and /or Coupling Link on S-Flex (SF-D19DCT-A and SF-D19DCT-G). One license per card needed.	\$	2,364.00
1091802118-01	Right to use 100G client port capacity on TeraFlex Multiplexer cards supporting mix of 100GE/OTU4 and 400GE clients: F8/T-MP-2D8DCT, F8/T-MP-M8DCT.	\$	4,846.40
1091802121-01	RTU to upgrade capacity of F8/SF-D19DCT-A/200G or F8/SF-D19DCT-G/200G from 200G to 400G	\$	36,666.67
1063801081-02	Teraflex Shelf Controller Module for T-SH1R-2	\$	2,121.87
1078800086-02	FSP 3000 C 1RU TeraFlex Shelf with Integrated CEM, Rear Access, 600 mm Deep, with fix brackets for mounting into guide rails, and Grounding Cable	\$	3,415.66
1063802162-02	OpenFabric+: Line: 1xCFP2-DCO 8/16QAM/QPSK; client: 2xQSFP28, 3xQSFP+ IF, 20x10GE/OTU2/OTU2e/STM64/OC192/8GFC; 2xOTU4, 6x25GE/32GFC, 4x40GE, 2x100GE, 12x16GFC. Max capacity Clients: 200G, Line: 200G. No encryption.	\$	16,870.42
1091800032-00	SW for Release 3.2.0 preinstalled	\$	-
1091800041-02	SW for Release 4.1.2 preinstalled	\$	-
1091800043-01	SW for Release 4.3.1 preinstalled	\$	-
1013800025-01	Fan Air Cleansing Filter Metallic for SH12	\$	272.36
1091801204-01	System software license per SH12. Access to Maintenance, Minor and Major Releases is subject to a valid Maintenance agreement covering this product.	\$	7,608.88
1091801504-01	System software license per SH4R. Access to Maintenance, Minor and Major Releases is subject to a valid Maintenance agreement covering this product.	\$	2,529.52
1091801805-01	System software license per SH1R. Access to Maintenance, Minor and Major Releases is subject to a valid Maintenance agreement covering this product.	\$	751.75
1091806132-01	SW to configure one non-ADVA QSFP 56 or 10/14/28. CAUTION! Ensure that 3rd party QSFP comply with all relevant standards to prevent damages and accidents. The operating organization is responsible for the laser safety of the end-to-end system.	\$	2,119.10
1091802113-01	Per wavelength external connection license per end for ROADM or Terminal with fixed mux/demux	\$	1,005.70
1091802114-01	Per 12.5GHz block of spectrum external connection license per end for ROADM or Terminal with colorless/flexgrid multiplexing	\$	497.77
1013800063-01	Kit containing air filter pads for SH3	\$	27.05
BC00001114	Bundle for 6 x 12.5GHz external connection licenses per end for ROADM or Terminal with colorless/flexgrid multiplexing, equivalent to 75GHz spectrum	\$	2,986.65
BC00001121	TeraFlex bundle including TeraFlex 800G CoreChannel Multiplexer (F8/T-MP-M8DCT with 800G Line Port and 8xQSFP28, 2x QSFP56-DD Client Ports), and card licenses (F8/RTU/T-100G/CAPACITY) for 4 client ports (4x 100G or 1x 400G).	\$	71,457.60
1091800042-01	SW for Release 4.2.1 preinstalled	\$	-
1091800034-01	SW for Release 3.4.1 preinstalled	\$	-
1013800053-01	19"/23" and ETSI Bracket kit for SH1R with 2 post racks with threaded holes; front mount and mid mount option (complies with ETSI 300 119-6/7); used for 2 post racks instead of guide rail kit (4 post)	\$	546.48
1063804323-02	Dual amplifier each with single accessible Stage, 23dBm, integrated OSC, C-Band, IN-APR. Integrated OCM, OTDR for monitoring of all traffic ingress/egress ports, AM-2S23-M, HW Rev 2.01. New HW revision (PCN 5996)	\$	41,333.33
1063802172-02	Cryptomux+: Line: 1xCFP2-DCO 8/16QAM/QPSK 2xOTU4 ; client: 2xQSFP28, 3xQSFP+ IF, 20x10GE OTU2, OTU2e, STM64, OC192; 4x40GE, 6xFC-32G; 6x25GE, 12xFC-16G, 2x100GE, OTU4, with encryption	\$	59,380.55
1091800033-01	SW for Release 3.3.1 preinstalled	\$	-

1063802125-01	S-Flex with 1xCFP2 400G network interface and 19 client interfaces - 400G client capacity. Requires a license (F8/RTU/SF-D19DCT/FC-CL) per card for FibreChannel and Coupling link application.	\$	42,666.67
1078800053-01	Shelf 4HU 600mm depth, rear access for power, 19" adaptor brackets (EIA), shelf front cover, shelf front cover extension and grounding cable included, Modification for longer fiber fingers;DC 2W2 connectors on PSM-DC5.	\$	3,221.12
1063801097-01	Slot cover for PSM-AC8 slot in case only one power supply is used; for SH2 and SH2R	\$	48.78
1013800055-01	Kit containing air filter pads for SH2R, SH2, SH2R-2, SH2-2	\$	22.36
1063801100-01	Teraflex passive Shelf Front cover with optional air filter for 19", 23" and ETSI racks	\$	835.12
1063804352-01	Dual single stage EDFA amplifier, +20dBm, low variable gain range, single integrated OSC, XFP OTDR, C-Band	\$	15,333.33
1063803151-01	32-Degree ROADM Module for FSP 3000 C, WSS-Based, Flexgrid Extended C-Band, with Route & Select Twin WSS and Integrated OCM, with 1x LC Duplex Network Connector and 6x MPO12 Duplex Client Connectors	\$	52,307.12
1063803162-01	16x4 passive Splitter & Combiner for Route and Select ROADM, 16 Clients for 4 directions, with Monitoring diodes, LC connectors	\$	7,833.87
1061804371-01	XFP EDFA, C-Band, 17dBm output	\$	3,473.39
1061804372-01	XFP EDFA, 10dB gain, +12dBm, C-Band	\$	3,473.39
1040800068-01	Power Supply Module AC, 400W, AC 110V/240V and DC 240V, rear power feeding, for SH2R and SH2R-2	\$	589.45
1063801068-01	Element Controller Module, Main shelf/NE controller module. For SH2 and SH2R, SH2-2 and SH2R-2	\$	2,584.69
BC00000810	TeraFlex bundle including TeraFlex 1200G Multiplexer (MP-2D3DT with 2x Integrated C-Band Tunable Line Ports and 3x QSFP-DD Client Ports), and card licenses (RTU/MP-2D3DT/CLIENT PORT) for one client port.	\$	79,437.98
BC00000811	TeraFlex bundle including TeraFlex 1200G Multiplexer (MP-2D3DT with 2x Integrated C-Band Tunable Line Ports and 3x QSFP-DD Client Ports), and card licenses (RTU/MP-2D3DT/CLIENT PORT) for three client ports.	\$	102,975.31
1091802111-01	Right to use one client port on F8/MP-2D3DT (TeraFlex Multiplexer for 400G clients)	\$	17,584.21
1063805134-01	48 channel filter C-Band with 100GHz spacing and wide passband for high Baud rate coherent transmission, 1HU shelf with IN-APR 1510nm loop, LC connectors	\$	8,595.39
1063805133-01	2HU shelf with 64 channel filter C-Band with 75GHz spacing for high Baud rate coherent transmission, IN-APR 1510nm loop	\$	12,645.41
BC00001299	TeraFlex bundle for submarine application: including TeraFlex 800G Multiplexer (T-MP-2D8CT with with extended tuning range), card licenses (RTU/MP-2D12CT/CLIENT PORT) for eight client ports and license for submarine mode (RTU/TF-SUBMARINE).	\$	106,111.64
1078800082-01	Shelf 2HU 450mm deep for AC and DC rear access, 4 traffic slots; Max power 60W per slot. 19" and ETSI 600mm and 23" bracket, front cover and grounding cable included	\$	2,480.76
1063803160-01	1x2 passive Splitter and Combiner for multi-passband with fixed filters, LC connectors, IN-APR 1510nm loop	\$	4,289.24
1063805130-01	33 channel filter, C-Band with 150GHz spacing, coherent transmission, 1RU shelf, IN-APR 1510nm loop with power monitoring	\$	6,156.80
1063805135-01	65 channel filter, C-Band with 75GHz spacing, coherent transmission according to IOF 400G ZR grid, narrow passband, 2HU shelf, IN-APR 1510nm loop with power monitoring	\$	14,878.93
1063801084-01	Common Equipment Module for SH1R with 2xRJ45 and 2x SFP Ethernet front access, no Display	\$	944.78
1091801704-01	System software license per SH2, SH2R. Access to Maintenance, Minor and Major Releases is subject to a valid Maintenance agreement covering this product.	\$	1,005.70
1063801102-01	Teraflex 10x filters for front and 10x filters for top cover	\$	34.99
1091801901-01	System software license per T-SH1R. Access to Maintenance, Minor and Major Releases is subject to a valid Maintenance agreement covering this product.	\$	1,005.70
1063804323-01	Dual amplifier each with single accessible Stage, 23dBm, integrated OSC, C-Band, IN-APR. Integrated OCM, OTDR for monitoring of all traffic ingress/egress ports, AM-2S23-M, HW Rel 1.01	\$	49,254.40

1040800065-02	Power Supply Module, 1450W, AC 110/220V, HV DC240V for SH4R, with integrated fan, can be mixed with PSM-AC4, DC4	\$	1,174.90
1063804353-01	Single stage EDFA amplifier, +20dBm, low variable gain range, integrated OSC, XFP OTDR, C-Band	\$	7,733.33
1091800051-01	SW for Release 5.1.1 preinstalled	\$	-
1013800074-01	19"/23" and ETSI Bracket and Guide Rail kit for SH4R with 2 post racks with threaded holes for front and mid mount option.	\$	234.90
1063802971-01	Optical Channel Monitoring Module with 4 Monitoring Ports for Monitoring the Power Spectrum	\$	7,534.55
1063801012-02	Element Controller Module. Main shelf/NE controller module. For SH12, SH4R and SH3	\$	2,626.84
1063804361-01	XFP carrier card module. 6 XFP cages for pluggable EDFAs	\$	2,000.00
BC00001343	TeraFlex bundle including TeraFlex 800G FlexClient Multiplexer (F8/T-MP-2D8DCT with 2x400G Line Ports and 8xQSFP28, 2x QSFP56-DD Client Ports), and card licenses (F8/RTU/T-100G/CAPACITY) for 2 client ports (2x 100G).	\$	61,764.80
BC00001013	TeraFlex bundle including TeraFlex 800G Multiplexer (T-MP-2D8CT with 2x Integrated C-Band Tunable Line Ports and 8x QSFP28 Clients), and card licenses (RTU/MP-2D12CT/CLIENT PORT) for two client ports.	\$	61,764.80
1091801604-01	System software license per SH3. Access to Maintenance, Minor and Major Releases is subject to a valid Maintenance agreement covering this product.	\$	1,513.66
1091800031-06	SW for Release 3.1.6 preinstalled	\$	-
1091800032-01	SW for Release 3.2.1 preinstalled	\$	-
1091800041-01	SW for Release 4.1.1 preinstalled	\$	-
1063803150-01	12-Degree ROADM Module for FSP 3000 C, WSS-Based, Flexgrid Extended C-Band, with Route & Select Twin WSS and Integrated OCM, with 1x LC Duplex Network Connector and 12x LC Duplex Client Connectors	\$	30,784.00
1063801074-01	Shelf Controller Module for SH2 and SH2R, SH2-2 and SH2R-2	\$	2,252.11
1078800083-01	Shelf 2HU 300mm deep for front access, 4 traffic slots; Max power 60W per slot. 19" and ETSI 600mm and 23" bracket, side air seal, front cover and grounding cable included	\$	2,165.45
BC00000934	Bundle for 4 x 12.5GHz external connection licenses per end for ROADM or Terminal with colorless/flexgrid multiplexing, equivalent to 50GHz spectrum	\$	1,991.09
BC00000935	Bundle for 8 x 12.5GHz external connection licenses per end for ROADM or Terminal with colorless/flexgrid multiplexing, equivalent to 100GHz spectrum	\$	3,982.19
1063801056-02	Common Equipment Module for SH3	\$	819.70
1063805101-01	Generic Optical Path Protection Switch Module: 1+1 protection based on various trigger options with integrated inband filters and two SFP cages for pilot signals	\$	7,178.67
1013800075-01	19"/23" and ETSI Bracket and Guide Rail kit for T-SH1R-2 with 2 post racks with threaded holes for mid mount option.	\$	317.85
1042800024-02	Fan Tray Module for SH2 and SH2R, SH2-2 and SH2R-2. eUSB Flash for database mirroring (PCN 5495)	\$	847.01
1013800056-01	Bracket kit for SH2R, SH2, SH2R-2 and SH2-2 (19" and ETSI bracket and 23" (EIA/Weco) bracket)	\$	64.02
1091800031-05	SW for Release 3.1.5 preinstalled	\$	-
1040800067-01	Power Supply Module AC, 900W, AC 110V/240V, HVDC 240V for SH3	\$	710.11
1063803165-01	8x1 passive Splitter & Combiner for Route and Select ROADM, 8 Clients for 1 directions, without monitoring diodes, LC connectors	\$	1,706.67
1091800045-03	SW for Release 4.5.3 preinstalled	\$	-
BC00001260	Bundle of QuadFlex (F8/MP-2B4CT-CG) and card license for one client port (1P). Quadflex: Any line format, , including tunable optical filter, suitable for colorless add/drop; 2 QSFP28 clients with any combination of OTU-4/100GE services.	\$	47,017.07
BC00001261	Bundle of QuadFlex (F8/MP-2B4CT-CG) and card license for one client port (1P). Quadflex: Any line format, , including tunable optical filter, suitable for colorless add/drop; 2 QSFP28 clients with any combination of OTU-4/100GE services.	\$	56,744.78

BC00001262	Bundle of QuadFlex (F8/MP-2B4CT-CG) and card license for one client port (1P). Quadflex: Any line format, , including tunable optical filter, suitable for colorless add/drop; 2 QSFP28 clients with any combination of OTU-4/100GE services.	\$	73,137.89
1063709050-03	Optical Amplifier for Booster application,Single Stage 20dBm max. output power, gain controlled (C-Band) with Dual Monitor	\$	3,234.91
1063709060-03	Raman amplifier with variable Raman pump power and up to 10dB gain on G.652 fiber (C-band)	\$	10,816.11
1063708850-01	40-port MUX/DMX Channel Splitter, C-Band, integrated in separate passive shelf with dual monitoring point	\$	5,196.57
1063708865-01	Passive 8 channel terminal filter DWDM for usage with 5GSM	\$	1,887.05
1063709278-01	Managed DCM using Chirped Fiber Bragg Gratings (CFG), compensating 160km True Wave Reduced Slope Fiber for 50GHz channel spacing in the C-band	\$	7,619.12
1063709280-01	Managed DCM using Chirped Fiber Bragg Gratings (CFG), compensating 240km True Wave Reduced Slope Fiber for 50GHz channel spacing in the C-band	\$	7,619.12
0042700001-04	Fan Module for SH7HU	\$	995.39
1091703081-01	SW for Release 18.1.1 preinstalled	\$	-
1040700005-01	Power Supply Module (800W) DC for SH7HU	\$	828.69
1040700006-01	Power Supply Module (800W) AC for SH7HU and SH9HU	\$	822.46
1040700011-01	Power Supply Module (200W) AC for SH1HU-R/PF	\$	550.38
1091703072-02	SW for Release 17.2.2 preinstalled on all applicable HW in the related shipment	\$	-
1063708380-01	Terminal module with pre-amplifier and add/drop splitter for 96ch DWDM to the MROADM	\$	10,503.81
1063708381-01	Terminal module with pre-amplifier, booster-amplifier and add/drop splitter for 96ch DWDM to the MROADM	\$	17,299.70
1013700009-01	Mechanical kit to increase cabling space for 7HU and 9HU shelves	\$	15.92
1063708336-01	8-port Power Splitter Module	\$	1,440.61
BC00000638	F7/5WCA-PCN-16GU and one High-Speed port-license	\$	2,356.21
1091701923	High-Speed port license. Right to use for one client port for 4WCC, 5WCA, 6WCA, 9TCE	\$	300.38
1091701970	Software license to use SDN type northbound interfaces (NETCONF, gRPC)	\$	1,513.66
1063708338-01	16 x 4 splitter / combiner module used for colorless terminal and add/drop of coherent signals ROADM 9 degree, Flexgrid in C-Band, WSS based, route and select architecture with integrated optical channel monitor	\$	6,054.78
1063708328-01	Combined Network Element and Shelf Control Unit for SH1HU deployments, 2.5 HU high, 2 x RJ45 Ethernet ports and 1 x serial interface	\$	24,304.78
1063708429-01	Dummy card 5HU	\$	1,480.99
63709901	Dummy card 2,5HU	\$	29.14
63709902	Utility Module, 2.5 HU high for slot B in slimline shelves only	\$	75.66
1063708431-01	F7/4WCC-PCN-10G and one High-Speed port-license	\$	597.73
BC00000637	Power Supply Module (400W) DC for 7HU Shelf	\$	3,873.37
40700001	Power Supply Module (120W) AC for SH1HU-R	\$	546.29
40700010	4-port Channel Splitter, with upgrade port	\$	416.34
63708701	4-port Channel Splitter, with upgrade port	\$	1,449.90
63708702	4-port Channel Splitter, with upgrade port	\$	1,543.64
63708703	4-port Channel Splitter, with upgrade port	\$	1,548.57
63708704	4-port Channel Splitter, with upgrade port	\$	1,548.57
63708705	4-port Channel Splitter, with upgrade port	\$	1,543.64
63708706	4-port Channel Splitter, with upgrade port	\$	1,533.77
63708707	4-port Channel Splitter, with upgrade port	\$	1,533.77
63708708	4-port Channel Splitter, with upgrade port	\$	1,518.97
78700061	1HU Slimline Shelf for rear access power supply modules, unequipped	\$	1,078.25



63708802	4-port CWDM Channel Splitter Module	\$	1,095.26
63708803	4-port CWDM Channel Splitter Module	\$	1,080.46
63708805	8-port CWDM Channel Splitter Module	\$	2,403.92
63708806	Band splitter 1310nm/1470nm to 1610nm/1510nm to 1570	\$	1,443.01
63708901	Single-port Protection Module Single Mode	\$	585.90
63708902	Single-port Protection Module Multimode	\$	609.83
63708903	2-port Protection Module Single Mode	\$	820.11
63708904	2-port Protection Module Multimode	\$	849.47
63708502	2-port Red/Blue Splitter C-Band	\$	967.52
63708508	8-port Group Splitter C-Band	\$	2,886.59
63708601	4-port Channel Splitter	\$	1,016.06
63708602	4-port Channel Splitter	\$	1,070.32
63708603	4-port Channel Splitter	\$	1,075.28
63708604	4-port Channel Splitter	\$	1,075.28
63708605	4-port Channel Splitter	\$	1,070.32
63708606	4-port Channel Splitter	\$	1,080.19
63708607	4-port Channel Splitter	\$	1,080.19
63708608	4-port Channel Splitter	\$	1,065.41
13700002	Fan Air Cleansing Filter Set (10 Pcs) for FSP 3000R7 (SH7HU and SH9HU) and FSP 150EG (CH-10U)	\$	124.55
1078708792-01	40-port MUX/DMX Channel Splitter, C-Band, integrated in separate shelf, for Dual Client add drop application with 8ROADM-C80/0/OPM only	\$	8,287.01
1091700025-01	Right to use Multiplexing function on 5TCE card types	\$	2,021.58
1063708414	Utility Module	\$	1,057.70
1063708440	Passive Shelf Control Unit	\$	494.51
1063708481	Optical Supervisory Channel Filter Module	\$	790.91
1063708510	Interleaver for DWDM 50GHz C-Band	\$	6,246.46
1063708720	4-port Channel Splitter for channel 19590 to 19560, with upgrade port	\$	1,914.88
1063708721	4-port Channel Splitter for channel 19550 to 19520, with upgrade port	\$	1,957.12
1063708722	4-port Channel Splitter for channel 19510 to 19480, with upgrade port	\$	1,947.26
1063708723	4-port Channel Splitter for channel 19470 to 19440, with upgrade port	\$	1,952.19
1063708724	4-port Channel Splitter for channel 19430 to 19400, with upgrade port	\$	1,927.52
1063709051	Optical Amplifier, Double Stage 20 dBm maximum output power, variable gain controlled (C-Band) with Dual Monitor	\$	5,327.47
1063709223	Managed DCM using dispersion compensating fiber (DCF), compensating 30km Standard Single Mode Fiber	\$	3,110.76
1063709225	Managed DCM using dispersion compensating fiber (DCF), compensating 50km Standard Single Mode Fiber	\$	3,816.70
1063709227	Managed DCM using dispersion compensating fiber (DCF), compensating 70km Standard Single Mode Fiber	\$	3,905.50
1063709229	Managed DCM using dispersion compensating fiber (DCF), compensating 90km Standard Single Mode Fiber	\$	4,136.90
1063709258	Managed DCM using Chirped Fiber Bragg Gratings (CFG), compensating 80km Standard Single Mode Fiber for 100GHz channel spacing in the C-band	\$	3,539.43
1078700062	Passive Unmanged 1HU Slimline Shelf, no power supplies and no SCU required	\$	221.35
1078700065	Passive Unmanged 1HU Slimline Shelf with optional fiber tray, no power supplies and no SCU required	\$	242.30
1078700144	1HU Slimline Shelf High Power with redundant DC Power Feed	\$	1,549.71
1078708791	40-port MUX/DMX Channel Splitter for 50 GHz interleaved channels in C-Band, integrated in separate shelf to save slots in master shelf	\$	3,079.05

63708753	16-port Channel Splitter - Single Fiber Working, C-Band, location A	\$	6,860.38
63708754	16-port Channel Splitter - Single Fiber Working, C-Band, location B	\$	6,846.48
63708771	Optical Supervisory Channel Filter Module - Single Fiber Working, location A	\$	958.69
63708772	Optical Supervisory Channel Filter Module - Single Fiber Working, location B	\$	896.51
63708811	Band splitter 1310nm/1470nm to 1610nm	\$	923.52
63708881	Power Splitter Module 95% / 5%	\$	514.97
78700101	7HU Shelf	\$	1,447.98
63709221	Managed DCM using dispersion compensating fiber (DCF), compensating 10km Standard Single Mode Fiber	\$	2,499.03
63709222	Managed DCM using dispersion compensating fiber (DCF), compensating 20km	\$	2,804.90
63709224	Managed DCM using dispersion compensating fiber (DCF), compensating 40km Standard Single Mode Fiber	\$	3,421.56
63709226	Managed DCM using dispersion compensating fiber (DCF), compensating 60km Standard Single Mode Fiber	\$	3,939.56
63709228	Managed DCM using dispersion compensating fiber (DCF), compensating 80km Standard Single Mode Fiber	\$	3,905.50
63709230	Managed DCM using dispersion compensating fiber (DCF), compensating 100km Standard Single Mode Fiber	\$	4,136.90
63709256	Managed DCM using Chirped Fiber Bragg Gratings (CFG), compensating 60km Standard Single Mode Fiber for 100GHz channel spacing in the C-band	\$	3,174.36
63709260	Managed DCM using Chirped Fiber Bragg Gratings (CFG), compensating 100km Standard Single Mode Fiber for 100GHz channel spacing in the C-band	\$	3,914.36
89000565	Unmanaged Dispersion Compensation for Large Effective Area Fiber, stand-alone 1HU shelf, 100km	\$	15,061.47
89000561	Unmanaged Dispersion Compensation for Large Effective Area Fiber, stand-alone 1HU shelf, 20km	\$	5,959.47
89000562	Unmanaged Dispersion Compensation for Large Effective Area Fiber, stand-alone 1HU shelf, 40km	\$	8,312.67
89000563	Unmanaged Dispersion Compensation for Large Effective Area Fiber, stand-alone 1HU shelf, 60km	\$	10,443.87
89000564	Unmanaged Dispersion Compensation for Large Effective Area Fiber, stand-alone 1HU shelf, 80km	\$	12,762.53
1040700003	Power Supply Module (600W) DC for SH7HU	\$	848.84
89000566	Unmanaged Dispersion Compensation for Large Effective Area Fiber, stand-alone 1HU shelf, 120km	\$	16,630.27
89000567	Unmanaged Dispersion Compensation for Large Effective Area Fiber, stand-alone 1HU shelf, 140km	\$	17,404.80
89000568	Unmanaged Dispersion Compensation for Large Effective Area Fiber, stand-alone 1HU shelf, 160km	\$	18,746.67
89000569	Unmanaged Dispersion Compensation for Large Effective Area Fiber, stand-alone 1HU shelf, 180km	\$	19,634.67
89000582	Unmanaged Dispersion Compensation for True Wave Reduced Slope Fiber, stand-alone 1HU shelf, 40km	\$	7,104.02
89000583	Unmanaged Dispersion Compensation for True Wave Reduced Slope Fiber, stand-alone 1HU shelf, 60km	\$	8,362.00
89000584	Unmanaged Dispersion Compensation for True Wave Reduced Slope Fiber, stand-alone 1HU shelf, 80km	\$	10,508.00
89000585	Unmanaged Dispersion Compensation for True Wave Reduced Slope Fiber, stand-alone 1HU shelf, 100km	\$	12,180.40
89000586	Unmanaged Dispersion Compensation for True Wave Reduced Slope Fiber, stand-alone 1HU shelf, 120km	\$	13,778.80

91700005	Right to use CWDM using Access Channel Cards, pure PCA-Ethernet Access and for Converter solutions - use if no DWDM filter/channels and no Core or Enterprise cards are in the system	\$	-
91700010	Right to use CWDM and DWDM using Access and Core cards	\$	1,371.43
91700020	Right to use CWDM and DWDM in an GDPS environment along with Core, Access and Enterprise cards	\$	8,838.08
1063708725	4-port Channel Splitter for channel 19390 to 19360, with upgrade port	\$	1,892.99
1063708726	4-port Channel Splitter for channel 19350 to 19320, with upgrade port	\$	1,952.19
1063708727	4-port Channel Splitter for channel 19310 to 19280, with upgrade port	\$	1,952.19
1063708728	4-port Channel Splitter for channel 19270 to 19240, with upgrade port	\$	1,957.12
1063708729	4-port Channel Splitter for channel 19230 to 19200, with upgrade port	\$	1,957.12
1063708871	Passive 8-port CWDM Channel Splitter Module with Dual Monitoring points	\$	2,151.62
1063708873	Passive 8-port CWDM Channel Splitter Module with upgrade port and Dual Monitoring points	\$	2,835.09
1063708882	4-port Optical Power Control Module	\$	3,827.01
1091700015	Right to use Add-Drop or Dual Terminal configuration on channel cards	\$	284.44
1091700035	Right to use Fiber Channel, FICON or Infiniband as client services	\$	284.44
1063708758-01	16-port Passive Channel Filter 1HU Shelf- Single Fiber Working, C-Band, Location B	\$	3,596.61
1063708757-01	16-port Passive Channel Filter 1HU Shelf- Single Fiber Working, C-Band, Location A	\$	3,604.00
1078708800-01	Compact 96-port MUX/DMX Channel Splitter, C-Band, with individual port LEDs, integrated in separate shelf	\$	9,309.89
1063700023-01	100G Channel Card Core Type, pluggable network and pluggable client interface	\$	6,455.96
1091703063-01	SW for Release 16.3.1 preinstalled on all applicable HW in the related shipment	\$	-
1063708463-03	Optical Supervisory Channel Module with 2 pluggable network ports	\$	1,972.17
1063709282-01	Managed DCM using Chirped Fiber Bragg Gratings (CFG), compensating 320km True Wave Reduced Slope Fiber for 50GHz channel spacing in the C-band	\$	7,865.79
1063709072-01	Optical amplifier, high variable gain EDFA with up to 20dBm output power, incl. OSFM add&drop filter (1528.77nm), dual monitor ports, VOA at the output, 96 channels in C-band, Fiber Map Detector	\$	8,231.39
1063709058-01	High output power Booster-Amplifier with input/output monitor ports and integrated 1528.77nm OSC add/drop filter ports	\$	16,453.56
1063709262-01	Managed DCM using Chirped Fiber Bragg Gratings (CFG), compensating 20km Standard Single Mode Fiber for 50GHz channel spacing in the C-band	\$	3,109.49
1063709264-01	Managed DCM using Chirped Fiber Bragg Gratings (CFG), compensating 40km Standard Single Mode Fiber for 50GHz channel spacing in the C-band	\$	3,351.22
1063709059-01	High output power Booster-Amplifier with input/output monitor ports and integrated 1510nm OSC add/drop filter ports	\$	17,183.83
1063700073-01	100G TDM Card Enterprise Type (10 x 10G) with AES256 encryption, pluggable client and network interface. Full technical compliance with BSI security Profile acc. to VS-NfD	\$	54,924.51
1063701002-01	10G Channel Card Core Type with 4 pluggable network and 4 pluggable client interfaces	\$	6,413.33
1091703071-01	SW for Release 17.1.1 preinstalled on all applicable HW in the related shipment	\$	-
1091703062-02	SW for Release 16.2.2 preinstalled on all applicable HW in the related shipment	\$	-
1078700145-01	1HU Slimline Shelf High Power with redundant DC Power Feed, extended temperature range	\$	1,739.37
1042700020-01	Fan Module for SH1HU-R/PF	\$	204.42
1078700060-01	1HU Slimline Shelf with exchangeable fan unit (not included) for rear access power supply modules	\$	1,940.84
1078700066	Passive Unmanged 1HU Fiber Management Tray	\$	359.58
1042700011	Fan Module for SH9HU	\$	326.78
1063701044-01	16-port 10G ADM TDM Card Core Type, pluggable client and network IF, Network Ports are fully G.709 enabled	\$	8,341.94

1078700121	9HU Shelf	\$	2,008.15
1040700041	Power Supply Module (1000W) DC for SH9HU	\$	844.25
1063708416	Common Equipment Module for SH9HU	\$	1,118.32
1091701900	Right to use Multiplexing function on 5TCE card types	\$	2,021.58
1078708797-01	40-port MUX/DMX Channel Splitter for 50 GHz interleaved channels in C-Band, integrated in separate shelf to save slots in master shelf	\$	2,971.54
1013700021-01	Fan Air Cleansing Filter Set for SH1HU-R/PF (10 pcs.) and for PSU/1HU-R-AC-200 or PSU/1HU-R-DC-200 (20 pcs.)	\$	359.75
1013700012-01	Kit to upgrade SH9HU to NEBS compliance	\$	20.04
1091701985	Software license to use Coherent Virtual Transponder in combination with the ENC Ensemble Optical Director	\$	1,300.32
1091701980	Software license to use Virtual Transponder in combination with the ENC Ensemble Optical Director	\$	650.15
1091701910	Right to use Coupling Link	\$	1,264.76
1063708762-01	Passive 2 x 4 port CWDM Splitter Module for Single Fiber Working terminal applications. Terminal West connects to east-side of corresponding add/drop filters	\$	1,378.02
1063708761-01	Passive 2 x 4 port CWDM Splitter Module for Single Fiber Working terminal applications. Terminal East connects to west-side of corresponding add/drop filters	\$	1,378.02
1063708766-01	Passive Single Channel Add/Drop CWDM Splitter Module Single Fiber Working	\$	864.19
1063708370-01	Add/Drop splitter and terminal module for 80ch DWDM to connect ACS amplifier to the MROADM	\$	1,949.31
1063708371-01	Add/Drop splitter and terminal module for 40ch DWDM to connect ACS amplifier to the MROADM	\$	1,847.30
1063708763-01	Passive Single Channel Add/Drop CWDM Splitter Module Single Fiber Working	\$	864.19
1063708764-01	Passive Single Channel Add/Drop CWDM Splitter Module Single Fiber Working	\$	864.19
1063708765-01	Passive Single Channel Add/Drop CWDM Splitter Module Single Fiber Working	\$	864.19
1063708335	5-port Power Splitter Module	\$	1,464.55
1063709052	Optical Amplifier, Double Stage 20 dBm maximum output power, variable low gain controlled (C-Band), dual monitoring ports	\$	5,635.24
1013700007-01	Front Cover for 40CSM/2HU and 40CSM-FL/2HU	\$	58.38
1078708789-01	40-port MUX/DMX Channel Splitter, C-Band, integrated in separate shelf to save slots in master shelf	\$	2,971.54
1089000645	Unmanaged Dispersion Compensation for MetroCor Fiber, stand-alone 1HU shelf, 60km	\$	5,476.00
1091703061-03	SW for Release 16.1.3 preinstalled on all applicable HW in the related shipment	\$	-
1013700006-01	Fiber Management for 40CSM-FL/2HU	\$	36.88
1063708730-01	5-port Group Splitter C-Band	\$	7,404.04
1063708731-01	8-port Channel Splitter	\$	2,171.90
1063708732-01	8-port Channel Splitter	\$	2,407.73
1063708733-01	8-port Channel Splitter	\$	2,136.40
1063708734-01	8-port Channel Splitter	\$	2,358.40
1063708735-01	8-port Channel Splitter	\$	2,058.44
1091703061-04	SW for Release 16.1.4 preinstalled on all applicable HW in the related shipment	\$	-
1063707680-01	4x 10G transponder and up to 9x GbE TDM Enterprise type, pluggable client and network interface.	\$	3,311.83
1063707675-01	4x 10G transponder and up to 9x GbE TDM Enterprise type card with AES256 encryption, pluggable client and network interface.	\$	17,204.10
1063700048-01	10-port 100G TDM Card Core Type, pluggable client and network interface	\$	10,280.51
1051002599	Passive Single Channel CWDM Splitter Y-Cable with high isolation upgrade port. A transceiver can be directly connected to the upgrade port. ALM is supported on the upgrade port	\$	282.19

1063703210-01	10G Channel Card Access Type with 5 pluggable network and 5 pluggable client interfaces	\$	3,599.71
1063700027-01	100G Channel Card Core Type with AES256 encryption, pluggable client and network interface. Full technical compliance with FIPS. FIPS seals included.	\$	27,777.68
1063700077-01	100G TDM Card Enterprise Type (10 x 10G) with AES256 encryption, pluggable client and network interface. Full technical compliance with FIPS. FIPS seals included.	\$	47,611.81
1063700021-01	100G Channel Card Core Type, pluggable network and pluggable client interface	\$	8,264.17
1063708879-01	2-way Power Splitter Module 95% / 5%	\$	695.39
1063700071-02	100G TDM Card Enterprise Type (10 x 10G), pluggable client and network interface	\$	9,970.99
1013700010-01	Mechanical upgrade kit to increase cabling space for 7HU and 9HU shelves	\$	143.94
1063707672-01	4x 10G transponder and up to 9x GbE TDM Enterprise type card with AES256 encryption, pluggable client and network interface. Full technical compliance with FIPS. FIPS seals included.	\$	27,818.08
1013700027-01	Mechanical kit to increase cabling space for 9HU shelves	\$	56.29
1013700026-01	Mechanical kit to increase cabling space for 7HU shelves	\$	51.73
1089000640	Unmanaged Dispersion Compensation for MetroCor Fiber, stand-alone 1HU shelf, 10km	\$	3,354.65
1089000641	Unmanaged Dispersion Compensation for MetroCor Fiber, stand-alone 1HU shelf, 20km	\$	3,774.00
1089000642	Unmanaged Dispersion Compensation for MetroCor Fiber, stand-alone 1HU shelf, 30km	\$	4,193.33
1089000643	Unmanaged Dispersion Compensation for MetroCor Fiber, stand-alone 1HU shelf, 40km	\$	4,637.33
1089000644	Unmanaged Dispersion Compensation for MetroCor Fiber, stand-alone 1HU shelf, 50km	\$	5,056.67
1063709071-01	Optical amplifier (line in RAMAN/line out EDFA) with variable Raman gain and low variable gain EDFA with up to 20dBm output power, incl. OSFM add&drop filter (1528.77nm), dual monitor ports, VOA at the output, 96 channels in C-band, Fiber Map Detect	\$	25,414.19
1063709070-01	Optical amplifier (line in RAMAN/line out EDFA) with variable Raman gain and high variable gain EDFA with up to 20dBm output power, incl. OSFM add&drop filter (1528.77nm), dual monitor ports, VOA at the output, 96 channels in C-band, Fiber Map Detect	\$	25,478.29
1091703071-02	SW for Release 17.1.2 preinstalled on all applicable HW in the related shipment	\$	-
1063700072-03	100G TDM Card Enterprise Type (10 x 10G) with AES256 encryption, pluggable client and network interface	\$	38,621.05
1091703063-02	SW for Release 16.3.2 preinstalled on all applicable HW in the related shipment	\$	-
1063708471-01	HD shelf connection unit with 2 pluggable ports	\$	1,000.44
1063708392-01	Micro amplifier including pre- amplifier and OSC	\$	10,181.22
1063708391-01	Micro amplifier including pre-amplifier, booster amplifier and OSC	\$	16,846.55
1063708423-01	Shelf Control Unit for high availability set-up, 2.5 HU high for small slots	\$	1,049.94
1063708413-01	Network Element Control Unit for high availability set-up, full 5HU module size	\$	1,814.25
1013700004-01	Fiber Management for 40CSM/2HU	\$	36.88
1013700005-01	Adapter Set for SH1HU/PASSIVE/FT rear plane rack mounting	\$	50.70
1063709266-01	Managed DCM using Chirped Fiber Bragg Gratings (CFG), compensating 60km Standard Single Mode Fiber for 50GHz channel spacing in the C-band	\$	3,622.55
1063709268-01	Managed DCM using Chirped Fiber Bragg Gratings (CFG), compensating 80km Standard Single Mode Fiber for 50GHz channel spacing in the C-band	\$	3,943.22
1063709270-01	Managed DCM using Chirped Fiber Bragg Gratings (CFG), compensating 100km Standard Single Mode Fiber for 50GHz channel spacing in the C-band	\$	4,318.15
1063707670-01	4x 10G transponder and up to 9x GbE TDM Enterprise type card with AES256 encryption, pluggable client and network interface. Full technical compliance with BSI security Profile acc. to VS-NfD	\$	29,492.06
1091703062-01	SW for Release 16.2.1 preinstalled on all applicable HW in the related shipment	\$	-
1063708482-01	Optical Supervisory Channel Filter Module with integrated WDM Coupler for the ALM.	\$	1,805.31

1051002593	Passive Single Channel CWDM Splitter Y-Cable with upgrade port. ALM is supported on the upgrade port	\$	282.19
1051002596	Passive Single Channel CWDM Splitter Y-Cable with upgrade port. ALM is supported on the upgrade port	\$	282.19
1051002592	Passive Single Channel CWDM Splitter Y-Cable with upgrade port. ALM is supported on the upgrade port	\$	282.19
1051002594	Passive Single Channel CWDM Splitter Y-Cable with upgrade port. ALM is supported on the upgrade port	\$	282.19
1051002595	Passive Single Channel CWDM Splitter Y-Cable with upgrade port. ALM is supported on the upgrade port	\$	282.19
1051002591	Passive Single Channel CWDM Splitter Y-Cable with upgrade port. ALM is supported on the upgrade port	\$	282.19
1051002598	Passive Single Channel CWDM Splitter Y-Cable with upgrade port. ALM is supported on the upgrade port	\$	282.19
1051002597	Passive Single Channel CWDM Splitter Y-Cable with upgrade port. ALM is supported on the upgrade port	\$	282.19
1063709073-01	Optical amplifier, low variable gain EDFA with up to 20dBm output power, incl. OSFM add&drop filter (1528.77nm), dual monitor ports, VOA at the output, 96 channels in C-band, Fiber Map Detector	\$	8,160.46
1040700012-01	Power Supply Module (200W) DC for SH1HU-R/PF	\$	910.78
1040700042-01	Power Supply Module (1000W) AC for SH9HU	\$	751.39
1063708337-01	1 x 4 splitter / combiner module used for colorless terminal and add/drop of coherent signals, 2.5 HU high	\$	894.51
1063700025-02	100G Channel Card Core Type with AES256 encryption, pluggable client and network interface	\$	27,155.22
1063708905-01	2-port Protection Module Multimode OM3	\$	1,237.43
1091703032-02	SW for Release 13.2.2 preinstalled on all applicable HW in the related shipment	\$	-
1091701924	Low-Speed port license. Right to use for one client port for 4WCC, 5WCA, 6WCA, 9TCE	\$	93.89
BC00000640	9TCE-PCN-10GU+AES10G-G and one High-Speed port-license	\$	25,763.58
BC00000642	9TCE-PCN-10GU+AES10G-F and one High-Speed port-license. FIPS seals included.	\$	24,259.18
BC00000641	9TCE-PCN-10GU+AES10G-G and one Low-Speed port-license	\$	25,585.54
BC00000639	F7/5WCA-PCN-16GU and one Low-Speed port-license	\$	2,356.21
BC00000644	9TCE-PCN-10GU+AES10G and one High-Speed port-license	\$	14,706.51
BC00000643	9TCE-PCN-10GU+AES10G-F and one Low-Speed port-license. FIPS seals included.	\$	24,081.09
BC00000646	9TCE-PCN-10GU+10G and one High-Speed port-license	\$	2,288.84
BC00000647	9TCE-PCN-10GU+10G and one Low-Speed port-license	\$	2,165.12
BC00000645	9TCE-PCN-10GU+AES10G and one Low-Speed port-license	\$	14,528.46
1063708881-01	8ch passive DWDM MUX/DMX with upgrade port	\$	2,175.30
1091703091-01	SW for Release 19.1.1 preinstalled	\$	-
1063700028-01	100G Channel Card Core Type with AES256 encryption, pluggable client and network interface. Full technical compliance with BSI security Profile acc. to VS-NfD.	\$	47,536.32
1013700024-01	Optional fan air cleansing filter set (10 Pcs) for SH1HU-F/E+TEMP/PF.	\$	91.09
1091703111-01	SW for Release 21.1.1 preinstalled	\$	-
1040700013-01	Power Supply Module (230W) DC for SH1HU-F/E+TEMP/PF. Power cords must be ordered separately. Please refer to the Compatibility Matrix (PSU&Cables) for details.	\$	364.30
1051002627	Breakout Module - OM3 fiber, 2 x MPO12 fan out to 2 x 8 x LC, 1-slot module for SH1HU/LGX shelves	\$	1,440.02
1051002628	Breakout Module - SM fiber, 2 x MPO12 fan out to 2 x 8 x LC, 1-slot module for SH1HU/LGX shelves	\$	1,501.58
1042700021-01	Fan Module for SH1HU-F/E+TEMP/PF. 1 fan module per SH1HU-F/E-TEMP/PF shelf required.	\$	592.00

1078700063-01	1HU Slimline Shelf with exchangeable fan unit FAN (not included), front access power supply modules PSU (not included) and fan control unit FCU (included).	\$	910.78
1063008961-01	8ch passive DWDM MUX/DMX with Aux/ALM port and O-band upgrade port, Single Fiber Working, Interleaved channelgrid, I-temp, Location A	\$	4,022.44
1063008962-01	8ch passive DWDM MUX/DMX with Aux/ALM port and O-band upgrade port, Single Fiber Working, Interleaved channelgrid, I-temp, Location B	\$	4,022.44
1091703103-01	SW for Release 20.3.1 preinstalled	\$	-
1042700021-02	Fan Module for SH1HU-F/E+TEMP/PF. 1 fan module per SH1HU-F/E-TEMP/PF shelf required.	\$	615.68
1091703122-01	SW for Release 22.2.1 preinstalled	\$	-
1078700061-01	Kit to upgrade SH1HU-R/PF to NEBS compliance	\$	194.06
1091703081-02	SW for Release 18.1.2 preinstalled	\$	-
1063708430-01	Combined Network Element and Shelf Control Unit for single slimline shelf applications, 2.5 HU high, 2 x RJ45 Ethernet LAN ports and 1x RJ45 serial interface	\$	1,333.33
1063708423-02	Shelf Control Unit for high availability set-up, 2.5 HU high for small slots .	\$	924.23
1063709050-04	Optical Amplifier for Booster application,Single Stage 20dBm max. output power, gain controlled (C-Band) with Dual Monitor	\$	3,364.30
1063708416-03	Common Equipment Module for SH9HU	\$	1,040.50
1063708391-02	Micro amplifier including pre-amplifier, booster amplifier and OSC	\$	17,520.42
1040700014-02	Power Supply Module (230W) AC for SH1HU-F/E+TEMP/PF. Power cords must be ordered separately. Please refer to the Compatibility Matrix (PSU&Cables) for details.	\$	506.13
1063708414-03	Utility Module	\$	990.82
1078700060-02	1HU Slimline Shelf with exchangeable fan unit (not included) for rear access power supply modules	\$	1,914.06
1063709051-03	Optical Amplifier, Double Stage 20 dBm maximum output power, variable gain controlled (C-Band) with Dual Monitor	\$	5,540.55
1063708463-04	Optical Supervisory Channel Module with 2 pluggable network ports	\$	1,722.59
1063708380-02	Terminal module with pre-amplifier and add/drop splitter for 96ch DWDM to the MROADM	\$	10,501.31
1078708781-01	48-port MUX/DMX Channel Splitter, C-Band, integrated in separate shelf	\$	5,435.89
1063708736-01	8ch DWDM MUX/DMX wide band filter 200 GHz grid, with upgrade port, single slot	\$	3,259.75
1091703112-01	SW for Release 21.2.1 preinstalled	\$	-
1091703111-03	SW for Release 21.1.3 preinstalled	\$	-
1063708392-02	Micro amplifier including pre- amplifier and OSC	\$	10,588.46
1063709052-03	Optical Amplifier, Double Stage 20 dBm maximum output power, variable low gain controlled (C-Band), dual monitoring ports	\$	5,723.03
1091703082-01	SW for Release 18.2.1 preinstalled	\$	-
1063008907-01	Wall mount kit (WMK) for 1-slot LGX enclosure	\$	109.30
1063708415-02	Network Element Control Unit with ultra performance processor, 2.5 HU high, 3 x RJ45 Ethernet ports, 1x RJ45 serial interface and 1x USB 3.0 type C port	\$	1,533.33
1091703115-01	SW for Release 21.5.1 preinstalled	\$	-
1063008973-01	Wall mount kit (WMK) for 1-slot LGX enclosure	\$	266.67
1078700068-01	Kit to upgrade SH1HU-F/E+TEMP/PF for NEBS compliance	\$	91.09
1063708449-09	General Optical Path Protection switch Module	\$	2,792.30
1063008913-01	Passive Single Channel Add/Drop DWDM MUX/DMX. Single Fiber Working, I-temp, LGX form factor, EAST/WEST	\$	1,530.08
1063008981-01	8ch passive DWDM MUX/DMX with Upgrade/ALM port, I-temp	\$	2,666.67
1063008983-01	8ch passive DWDM MUX/DMX with Upgrade/ALM port, I-temp	\$	2,666.67
1063008984-01	8ch passive DWDM MUX/DMX with Upgrade/ALM port, I-temp	\$	2,666.67
1063008985-01	8ch passive DWDM MUX/DMX with Upgrade/ALM port, I-temp	\$	2,666.67

1063008986-01	8ch passive DWDM MUX/DMX with Upgrade/ALM port, I-temp	\$	2,666.67
1063708851-01	40-port MUX/DMX Channel Splitter, C-Band, integrated in separate passive shelf with dual monitoring point and ALM demarcation reflector	\$	4,113.71
1063008909-01	Passive unmanaged 1HU LGX Shelf, no power supplies and no SCU required.	\$	131.14
1063008910-01	Passive unmanaged 1HU LGX Shelf, no power supplies and no SCU required.	\$	124.04
1063008951-01	8ch passive DWDM MUX/DMX with Aux/ALM upgrade port. Single Fiber Working, I-temp, LGX form factor, Location A (WEST)	\$	3,245.20
1063008952-01	8ch passive DWDM MUX/DMX with Aux/ALM upgrade port. Single Fiber Working, I-temp, LGX form factor, Location B (EAST)	\$	3,245.58
1063008911-01	Passive Single Channel Add/Drop DWDM MUX/DMX. Single Fiber Working, I-temp, LGX form factor, EAST/WEST	\$	1,530.08
1063008912-01	Passive Single Channel Add/Drop DWDM MUX/DMX. Single Fiber Working, I-temp, LGX form factor, EAST/WEST	\$	1,530.08
1063008914-01	Passive Single Channel Add/Drop DWDM MUX/DMX. Single Fiber Working, I-temp, LGX form factor, EAST/WEST	\$	1,530.08
1063008915-01	Passive Single Channel Add/Drop DWDM MUX/DMX. Single Fiber Working, I-temp, LGX form factor, EAST/WEST	\$	2,064.55
1063008916-01	Passive Single Channel Add/Drop DWDM MUX/DMX. Single Fiber Working, I-temp, LGX form factor, EAST/WEST	\$	2,064.55
1063008917-01	Passive Single Channel Add/Drop DWDM MUX/DMX. Single Fiber Working, I-temp, LGX form factor, EAST/WEST	\$	2,064.55
1063008918-01	Passive Single Channel Add/Drop DWDM MUX/DMX. Single Fiber Working, I-temp, LGX form factor, EAST/WEST	\$	2,064.55
1063008931-01	4ch passive DWDM MUX/DMX with integrated ALM demarcation reflector, I-temp	\$	1,762.44
1063008932-01	4ch passive DWDM MUX/DMX with integrated ALM demarcation reflector, I-temp	\$	1,835.35
1063008933-01	4ch passive DWDM MUX/DMX with integrated ALM demarcation reflector, I-temp	\$	1,841.96
1063008934-01	4ch passive DWDM MUX/DMX with integrated ALM demarcation reflector, I-temp	\$	1,901.01
1063008935-01	4ch passive DWDM MUX/DMX with integrated ALM demarcation reflector, I-temp	\$	1,894.95
1063008936-01	4ch passive DWDM MUX/DMX with integrated ALM demarcation reflector, I-temp	\$	1,908.61
1063008938-01	4ch passive DWDM MUX/DMX with integrated ALM demarcation reflector, I-temp	\$	1,888.08
1063008953-01	24ch passive DWDM MUX/DMX with upgrade/ALM port – Single Fiber Working, C-temp, Location A.	\$	2,248.70
1063008954-01	24ch passive DWDM MUX/DMX with upgrade/ALM port – Single Fiber Working, C-temp, Location B.	\$	2,248.70
1091703093-01	SW for Release 19.3.1 preinstalled	\$	-
1063708327-02	ROADM 4 degree, 96 channels in C-Band, WSS based, with integrated optical performance monitor and 1x4 power splitter, directed/directionless, gridless, colored/colorless, for dual client applications from 1 to 3 degrees. Additional dual pass through	\$	13,149.18
1091703104-01	SW for Release 20.4.1 preinstalled	\$	-
1063008982-01	8ch passive DWDM MUX/DMX with Upgrade/ALM port, I-temp	\$	2,666.67
1040700014-01	Power Supply Module (230W) AC for SH1HU-F/E+TEMP/PF. Power cords must be ordered separately. Please refer to the Compatibility Matrix (PSU&Cables) for details.	\$	486.67
1063708343-01	1 x 8 splitter / combiner module used for colorless terminal and add/drop of coherent signals	\$	1,306.67
1063708737-01	9ch DWDM MUX/DMX wide band filter 200 GHz grid, with upgrade port, single slot	\$	3,640.00
1091703082-04	SW for Release 18.2.4 preinstalled	\$	-
1063700084-01	100G TDM Card Core Type (up to 4x client, up to 3x 32G FC) with AES256 encryption, pluggable client and network interface. Full technical compliance with BSI security Profile acc. to VS-NfD	\$	47,430.50
1091703093-02	SW for Release 19.3.2 preinstalled	\$	-



1063708759-01	24-port Passive Channel Filter 1HU Shelf- Single Fiber Working, interleaved channel grid, C-Band, Location A	\$	3,854.93
1063708760-01	24-port Passive Channel Filter 1HU Shelf- Single Fiber Working, interleaved channel grid, C-Band, Location B	\$	3,854.93
1051002629	Breakout splitter Module - SM fiber, 2 x MPO12 fan out and 3dB combiner to 8 x LC, 1-slot module for SH1HU/LGX shelves	\$	1,280.00
BC00001242	F7/6WCA-PCN-28GU and one High-Speed port-license	\$	3,139.07
1063708361-02	MicroROADM supporting 2-degree in one module, 40/80/96 channels in C-Band, LCoS based, with 2x optical performance monitor	\$	15,372.76
1063703211-01	28G Channel Card Access Type with 6 pluggable network and 6 pluggable client interfaces.	\$	4,266.67
BC00001243	F7/6WCA-PCN-28GU and one Low-Speed port-license	\$	2,954.69
1063708394-01	Micro amplifier including low gain pre-amplifier and OSC	\$	10,204.63
1078700102	SH7HU refurbish kit including cover, cover-clip, brackets (19", NEBS, ETSI), earthing and required screws	\$	181.18
1078700122	SH9HU refurbish kit including cover, cover-clip, brackets (19", NEBS, ETSI), earthing and required screws	\$	106.74
1063708342-01	32 splitter /combiner 1HU shelf as colorless multiplexer for coherent signals	\$	3,364.69
1063708339-01	16 x 8 splitter / combiner module used for colorless terminal and add/drop of coherent signals	\$	8,747.31
1063708341-01	8 x 8 splitter / combiner module used for colorless terminal and add/drop of coherent signals	\$	7,321.62
1091701201	System software license per active 1HU shelf. Access to Maintenance, Minor and Major Releases is subject to a valid Maintenance agreement covering this product.	\$	253.98
1063708393-01	Micro amplifier including low gain pre-amplifier, booster amplifier and OSC	\$	16,249.58
1091701202	System software license for 7HU or 9HU shelf. Access to Maintenance, Minor and Major Releases is subject to a valid Maintenance agreement covering this product.	\$	1,168.25
1091701203	System software license per SH12 shelf. Access to Maintenance, Minor and Major Releases is subject to a valid Maintenance agreement covering this product.	\$	7,608.88
1091701205	System software license per SH1R shelf. Access to Maintenance, Minor and Major Releases is subject to a valid Maintenance agreement covering this product.	\$	751.75
1091701204	System software license per SH4R shelf. Access to Maintenance, Minor and Major Releases is subject to a valid Maintenance agreement covering this product.	\$	2,529.52
1091703092-01	SW for Release 19.2.1 preinstalled	\$	-
1091701206	System software license per SH3 shelf. Access to Maintenance, Minor and Major Releases is subject to a valid Maintenance agreement covering this product.	\$	1,513.66
1091703091-02	SW for Release 19.1.2 preinstalled	\$	-
1091703101-01	SW for Release 20.1.1 preinstalled	\$	-
1063702201-01	SyncE timing compliant 2-port 2.5G Channel and TDM Card Core Type with pluggable client and network interfaces	\$	2,798.84
1063708415-01	Network Element Control Unit with ultra performance processor, 2.5 HU high, 3 x RJ45 Ethernet ports, 1x RJ45 serial interface and 1x USB 3.0 type C port	\$	2,218.10
1091703063-05	SW for Release 16.3.5 preinstalled on all applicable HW in the related shipment	\$	-
1063709903	Dummy card for SH1HU-R/PF rear PSU slot	\$	45.31
1091703072-03	SW for Release 17.2.3 preinstalled on all applicable HW in the related shipment	\$	-
1063008908-01	Passive unmanaged 1HU LGX Shelf, no power supplies and no SCU required.	\$	131.14
1091703111-02	SW for Release 21.1.2 preinstalled	\$	-
1063008937-01	4ch passive DWDM MUX/DMX with integrated ALM demarcation reflector, I-temp	\$	1,910.78
1091703072-04	SW for Release 17.2.4 preinstalled on all applicable HW in the related shipment	\$	-
1091701207	System software license per T-SH1R shelf. Access to Maintenance, Minor and Major Releases is subject to a valid Maintenance agreement covering this product.	\$	1,005.70
1091703082-03	SW for Release 18.2.3 preinstalled	\$	-

1063708899-01	1-slot ALM WDM Coupler card w/ 8x 1650nm upgrade ports, managed, LC/APC connector to ALM processor unit, LC/PC to network and upgrade ports.	\$	2,497.41
1091703115-02	SW for Release 21.5.2 preinstalled	\$	-
1091703102-01	SW for Release 20.2.1 preinstalled	\$	-
1063700083-01	100G TDM Card Core Type (up to 4x client, up to 3x 32G FC) with AES256 encryption, pluggable client and network interface	\$	25,927.39
1063701000-02	10G Channel Card Core Type with 2 pluggable network and 2 pluggable client interfaces	\$	6,230.32
1063702201-02	SyncE timing compliant 2-port 2.5G Channel and TDM Card Core Type with pluggable client and network interfaces	\$	2,798.84
1063707680-02	4x 10G transponder and up to 9x GbE TDM Enterprise type, pluggable client and network interface.	\$	3,311.83
BC00000646-02	9TCE-PCN-10GU+10G and one High-Speed port-license	\$	2,288.84
BC00000647-02	9TCE-PCN-10GU+10G and one Low-Speed port-license	\$	2,165.12
0063708430-03	Shelf Control Unit, 2.5 HU high for SH1HU only	\$	548.19
1091703111-04	SW for Release 21.1.4 preinstalled	\$	-
1091703121-01	SW for Release 22.1.1 preinstalled	\$	-
1063708391-03	Micro amplifier including pre-amplifier, booster amplifier and OSC	\$	17,520.42
1063708392-03	Micro amplifier including pre- amplifier and OSC	\$	10,588.46
1063708393-02	Micro amplifier including low gain pre-amplifier, booster amplifier and OSC	\$	16,249.58
1063708394-02	Micro amplifier including low gain pre-amplifier and OSC	\$	10,204.63
1040904043-01	100 Watt -48VDC/24VDC power supply-terminal block input	\$	424.65
1036000630	AC Power Cable, US, 2.5m length, left angled equipment end	\$	23.16
1036000600	AC Power Cable, Europe, 2.5m length, left angled equipment end	\$	24.13
1036000610	AC Power Cable, UK plug with 3A fuse, 2.5m length, left angled equipment end	\$	24.13
1058009003	Standard LC Duplex Adapter, Blue, Plastic with Shutter	\$	13.47
1058009005	Standard LC (APC) Duplex Adapter, Green, Plastic with Shutter	\$	14.63
1013903001	Mounting Kit for 19", ETSI and 23" Racks and Wall Mounting for devices with 436 mm width. Comes with 4 screws for rack mounting	\$	40.00
1036000601	AC Power Cable, Europe, 2.5m length, right angled equipment end	\$	24.72
1036000602	AC Power Cable, Europe, 2.5m length, straight equipment end	\$	18.63
1036000611	AC Power Cable, UK plug with 3A fuse, 2.5m length, right angled equipment end	\$	19.30
1036000615	AC Power Cable, UK plug with 5A fuse, 2.5m length, straight equipment end	\$	28.34
1036000617	AC Power Cable, UK plug with 10A fuse, 2.5m length, right angled equipment end	\$	51.49
1036000620	AC Power Cable, Switzerland, 2.5m length, left angled equipment end	\$	23.92
1036000621	AC Power Cable, Switzerland, 2.5m length, right angled equipment end	\$	140.25
1036000622	AC Power Cable, Switzerland, 2.5m length, straight equipment end	\$	31.45
1036000631	AC Power Cable, US, 2.5m length, right angled equipment end	\$	22.95
1036000687	AC Power Cable, Europe, 2.5m length, left angled C19 plug at equipment end	\$	100.95
1036000632	AC Power Cable, US, 2.5m length, straight equipment end	\$	21.31
1036000650	AC Power Cable, Australia/China, 2.5m length, left angled equipment end	\$	126.74
1036000651	AC Power Cable, Australia/China, 2.5m length, right angled equipment end	\$	29.16
1036000652	AC Power Cable, Australia/China, 2.5m length, straight equipment end	\$	21.31
1036000660	AC Power Cable, India, 2.5m length, left angled equipment end	\$	26.51
1036000661	AC Power Cable, India, 2.5m length, right angled equipment end	\$	40.69
1036000662	AC Power Cable, India, 2.5m length, straight equipment end	\$	83.54
1036000670	AC Power Cable, Japan, 2.5m length, left angled equipment end	\$	24.61
1036000671	AC Power Cable, Japan, 2.5m length, right angled equipment end	\$	146.91
1036000672	AC Power Cable, Japan, 2.5m length, straight equipment end	\$	36.65

1036700008	DC Power Cable, 3m length, 2 wires AWG16 red/black with overall jacket, ring terminal at equipment end	\$	41.16
1036700009	DC Power Cable, 3m length, 2 wires AWG16 grey/blue with overall jacket, ring terminal at equipment end	\$	40.25
1036700011	DC Power Cable, 3m length, 2 x 2 wires AWG16 grey/blue with overall jacket	\$	103.12
1036700013	DC Power Cable, 3m length, 2 wires AWG16 blue/black with overall jacket, ring terminal at equipment end	\$	36.97
1036700014	DC Power Cable, 3m length, 2 x 2 wires AWG16 blue/black with overall jacket	\$	116.29
1036700015	DC Power Cable, 3m length, 3 wires AWG14 blue/black/green-yellow with overall jacket, ring terminal at equipment end	\$	62.32
1051002511	8-fold cable bundle - Single Mode, LC, 800 cm	\$	589.43
1051002512	16-fold cable bundle - Single Mode, LC, 800 cm	\$	1,118.19
51002395	Jumper for internal cabling - Single Mode, LC, 4500 cm	\$	31.09
51002109	Jumper for internal cabling - Single Mode, LC, 2500 cm	\$	23.68
51002390	Jumper for internal cabling - Single Mode, LC, 500 cm	\$	23.12
1036000680	AC Power Cable, Extension, 2.5m length, C13 to C14	\$	20.00
1036000681	AC Power Cable, Extension, 2.5m length, C13 to C20	\$	113.33
1051002621	MPO multifibre Cable - Singlemode, MPO12, 300 cm, LSZH	\$	452.08
1058001000	Optical Loopback Connector for Duplex LC, Loss < 1DB	\$	186.48
1036000682	AC Power Cable, C14, 2.5m length, right angled equipment end	\$	68.51
1036000683	AC Power Cable, C14, 2.5m length, right angled C19 plug at equipment end	\$	43.30
1051002539	Breakout Cable - Single Mode with integrated CWDM filter, LC, 400 cm	\$	1,406.00
1051002505	Duplex Cable - Multimode 62.5, LC, 10m	\$	47.35
1013904026	DC power adapter for use with GE112Pro (m).	\$	100.00
51002049	Jumper for internal cabling - Single Mode, LC-MU, 100 cm	\$	23.68
51002092	Jumper for internal cabling - Single Mode, LC, 100 cm	\$	36.65
58001206	Optical Attenuator LC Connector	\$	36.25
58001207	Optical Attenuator LC Connector	\$	36.25
58001208	Optical Attenuator LC Connector	\$	36.25
58001209	Optical Attenuator LC Connector	\$	36.25
58001210	Optical Attenuator LC Connector	\$	31.09
58001211	Optical Attenuator LC Connector	\$	36.25
58001212	Optical Attenuator LC Connector	\$	31.09
58001213	Optical Attenuator LC Connector	\$	36.25
58001214	Optical Attenuator LC Connector	\$	31.09
58001215	Optical Attenuator LC Connector	\$	36.25
58001216	Optical Attenuator LC Connector	\$	36.25
58001217	Optical Attenuator LC Connector	\$	31.09
58001218	Optical Attenuator LC Connector	\$	31.09
58001219	Optical Attenuator LC Connector	\$	31.09
58001220	Optical Attenuator LC Connector	\$	31.09
58300000	Optical Attenuator unspecified	\$	31.09
1036006010	ADAPTER for serial Connection, Male RJ45, Female RJ45, CrossOver Pin 3 - Pin 5	\$	13.33
1051002498	Duplex Cable - Single Mode, LC, 1000 cm	\$	47.35
1051002506	Duplex Cable - Single Mode, LC to SC, 1000 cm	\$	47.35
1013904460	Mounting Kit for 19" Racks for devices with 445.4 mm width. Comes with 4 screws for rack mounting	\$	9.33

1036904065	Power supply cord for front DC power feeding. AWG16 cables for NA market, color red (-48VDC) / black (Return), 3 meter length.	\$	21.33
1058000800	Optical Adapter LC to LC DUPLEX	\$	11.85
51000000	Jumper for internal cabling - connector, length and mode not specified	\$	23.68
51002094	Jumper for internal cabling - Single Mode, LC, 300 cm	\$	23.68
51002389	Jumper for internal cabling - Single Mode, LC, 50 cm	\$	36.65
51002396	Jumper for internal cabling - Single Mode, LC, 25 cm	\$	23.03
51002398	Jumper for internal cabling - Single Mode, LC, 30 cm	\$	23.68
51002399	Jumper for internal cabling - Single Mode, LC, 35 cm	\$	36.65
51002401	Jumper for internal cabling - Single Mode, LC, 40 cm	\$	36.65
51002402	Jumper for internal cabling - Single Mode, LC, 45 cm	\$	36.65
51002403	Jumper for internal cabling - Single Mode, LC, 110 cm	\$	23.68
51002404	Jumper for internal cabling - Single Mode, LC, 120 cm	\$	36.65
51002405	Jumper for internal cabling - Single Mode, LC, 130 cm	\$	36.65
51002406	Jumper for internal cabling - Single Mode, LC, 140 cm	\$	23.68
51002407	Jumper for internal cabling - Single Mode, LC, 160 cm	\$	23.68
51002095	Cable - Multimode 62.5, LC, 100 cm	\$	23.68
51002096	Cable - Multimode 62.5, LC, 200 cm	\$	23.68
51002097	Cable - Multimode 62.5, LC, 300 cm	\$	23.68
51002123	Duplex Cable - Multimode 62.5, LC, 500 cm	\$	57.60
51002304	Adapter Cable - Single Mode, LC to SC, 1m	\$	23.68
51002310	Adapter Cable - Single Mode, LC to SC, 2m	\$	23.68
51002316	Adapter Cable - Single Mode, LC to SC, 3m	\$	23.68
51002317	Adapter Cable - Multimode 62.5, LC to SC, 3m	\$	23.68
51002318	Adapter Cable - Single Mode, LC to MU, 35 cm	\$	23.68
51002486	Jumper for internal cabling - Single Mode, LC-MU, 230 cm	\$	23.68
58000701	Optical Attenuator MU Connector	\$	133.22
58000702	Optical Attenuator MU Connector	\$	133.22
58000703	Optical Attenuator MU Connector	\$	133.22
58000704	Optical Attenuator MU Connector	\$	133.22
51002456	Jumper for internal cabling - Single Mode, LC, 55 cm	\$	36.65
58000705	Optical Attenuator MU Connector	\$	133.22
51002457	Jumper for internal cabling - Single Mode, LC, 60 cm	\$	36.65
58000706	Optical Attenuator MU Connector	\$	133.22
51002458	Jumper for internal cabling - Single Mode, LC, 65 cm	\$	36.65
58000707	Optical Attenuator MU Connector	\$	133.22
51002459	Jumper for internal cabling - Single Mode, LC, 70 cm	\$	36.65
58000708	Optical Attenuator MU Connector	\$	133.22
51002460	Jumper for internal cabling - Single Mode, LC, 75 cm	\$	23.05
51002461	Jumper for internal cabling - Single Mode, LC, 80 cm	\$	36.65
51002462	Jumper for internal cabling - Single Mode, LC, 85 cm	\$	23.68
51002463	Jumper for internal cabling - Single Mode, LC, 90 cm	\$	36.65
51002464	Jumper for internal cabling - Single Mode, LC, 95 cm	\$	36.65
51002465	Jumper for internal cabling - Single Mode, LC, 105 cm	\$	23.68
51002466	Jumper for internal cabling - Single Mode, LC, 115 cm	\$	36.65
51002467	Jumper for internal cabling - Single Mode, LC, 150 cm	\$	23.68
51002468	Jumper for internal cabling - Single Mode, LC, 170 cm	\$	33.31

51002469	Jumper for internal cabling - Single Mode, LC, 180 cm	\$	23.68
51002470	Jumper for internal cabling - Single Mode, LC, 190 cm	\$	23.68
51002471	Jumper for internal cabling - Single Mode, LC, 210 cm	\$	36.65
51002472	Jumper for internal cabling - Single Mode, LC, 230 cm	\$	23.68
51002473	Jumper for internal cabling - Single Mode, LC, 240 cm	\$	23.68
58001201	Optical Attenuator LC Connector	\$	36.25
51002474	Jumper for internal cabling - Single Mode, LC, 280 cm	\$	23.68
58001202	Optical Attenuator LC Connector	\$	36.25
51002476	Jumper for internal cabling - Single Mode, LC, 310 cm	\$	23.68
58001203	Optical Attenuator LC Connector	\$	36.25
58001204	Optical Attenuator LC Connector	\$	36.25
58001205	Optical Attenuator LC Connector	\$	36.25
36904014	CABLE, DC POWER, MINI-FIT JR-SPADE, 3 METERS	\$	53.33
51002409	Cable - Multimode 62.5, LC, 25 cm	\$	23.68
51002411	Cable - Multimode 62.5, LC, 30 cm	\$	23.68
51002412	Cable - Multimode 62.5, LC, 35 cm	\$	23.68
51002413	Cable - Multimode 62.5, LC, 40 cm	\$	23.68
51002414	Cable - Multimode 62.5, LC, 45 cm	\$	23.68
58000228	Attenuator Kit 10 x 3dB, 10 x 5dB, 10 x 10dB LC	\$	946.02
51002093	Jumper for internal cabling - Single Mode, LC, 200 cm	\$	23.68
1013904463	Mounting Kit for 23" Racks for devices with 445.4 mm width. Comes with 4 screws for rack mounting	\$	9.33
1013904462	Mounting Kit for ETSI Racks for devices with 445.4 mm width. Comes with 4 screws for rack mounting	\$	9.33
1036904068	DC Power Cable, 3m length, 3 wires AWG16 grey (-48VDC), blue (Ret) and yellow/green (ground), Spade connectors on both ends.	\$	26.67
1036904064	Power supply cord for front DC power feeding. AWG16 cables for ETSI market, color grey (-48VDC) / blue (Return), 3 meter length.	\$	21.33
1036904070	DC Power Cable, 3m length, 3 wires AWG16 red (-48VDC), black (return), and green-yellow (ground), Spade connectors on both ends.	\$	26.67
1036904035	ADAPTER, RS232, DB9(female) - RJ45 (female)	\$	20.00
1040904120	Power Supply Module I-Temp 40W AC	\$	186.67
1036000570	Interface Cable of IEEE1394 type	\$	21.31
1036000580	USB Cable 1.5m	\$	8.06
1036904031	CABLE, DC POWER, 3-POS, MINI-FIT JR-SPADE, 3 METERS, red, black and yellow/green color	\$	47.52
1051002622	MPO multifibre Cable - Singlemode, MPO12, 1000 cm, LSZH	\$	534.29
1036904066	CABLE, DC POWER, 3-POS, MINI-FIT JR-SPADE, 3 METERS, red (+), black (-) and yellow/green color	\$	31.45
1036904067	DC Power Cable for front DC -48VDC Powering , 2 wires AWG16, 3m length, blue (-48VDC), black (Return) for EU MKT. Spade Connectors	\$	26.67
1036904069	DC Power Cable, 3m length, 3 wires AWG16 blue (-48VDC), black (Ret) and yellow/green (ground), Spade connectors on both ends.	\$	26.67
1036000581	USB Cable 1.5m, USB2-Standard-A to USB2-Standard-A	\$	11.22
1036904071	Grounding cable LSZH, 3m length	\$	9.26
1051002634	Cable, Single Mode, LC to SC angled, 300 cm	\$	21.33
1051002626	Cable - Singlemode, MPO24, 1000 cm, LSZH	\$	787.35
1051002624	MPO multifibre Cable - Singlemode, MPO12, 33 cm	\$	354.02
51002477	Jumper for internal cabling - Single Mode, LC, 400 cm	\$	23.68

51002392	Jumper for internal cabling - Single Mode, LC, 10m	\$	22.95
1013902003	Mounting Kit for 19" and ETSI Racks for devices with 443 mm width. Comes with 4 screws for rack mounting. Sub-set of 1013902002	\$	95.05
1051002625	Cable - Singlemode, MPO24, 310 cm, LSZH	\$	724.61
1036700026	DC Power Cable, 3m length, 3 wires AWG14 (red(-48V)/black(return)/green-yellow) with overall jacket, Phoenix connector at equipment end	\$	102.86
1036700028	DC Power Cable, 3m length, 3 wires AWG14 (grey/blue/green-yellow) with overall jacket, Phoenix connector at equipment end	\$	82.97
1036700027	DC Power Cable, 3m length, 3 wires AWG14 (blue/black/green-yellow) with overall jacket, Phoenix connector at equipment end	\$	75.45
1051002525	Y cable for Channel card protection, 310 cm length, multimode 62.5 fiber, LC connector	\$	251.60
1051002523	Y cable for Channel card protection, 310 cm length, SM fiber, LC connector	\$	229.41
1051002522	MPO multifibre Cable - OM3 fiber, MPO24, 1000 cm, LSZH	\$	525.41
1051002526	Y cable for Channel card protection, 1000 cm length, multimode 62.5 fiber, LC connector	\$	273.79
1051002524	Y cable for Channel card protection, 1000 cm length, SM fiber, LC connector	\$	251.60
1036000609	AC Power Cable, Europe, 2.5m length, right angled C19 plug at equipment end	\$	57.58
1036000629	AC Power Cable, Switzerland, 2.5m length, right angled C19 plug at equipment end	\$	117.62
1036700029	DC Power Cable, 10m length, 3 wires AWG14 (red(-48V)/black(return)/green-yellow) with overall jacket, Phoenix connector at equipment end	\$	207.30
1036700033	DC Power Cable, 10m length, 2 single wires AWG10 grey (-48V)/blue (+return), SUB-D connector at equipment end	\$	294.29
1036700031	DC Power Cable, 10m length, 3 wires AWG14 (grey/blue/green-yellow) with overall jacket, Phoenix connector at equipment end	\$	207.30
1036700030	DC Power Cable, 10m length, 3 wires AWG14 (blue/black/green-yellow) with overall jacket, Phoenix connector at equipment end	\$	207.30
1036700032	DC Power Cable, 10m length, 2 single wires AWG10 red (-48V) / black (+return), SUB-D connector at equipment end	\$	283.07
1036700034	DC Power Cable, 10m length, 2 single wires AWG10 blue (-48V)/black (+return), SUB-D connector at equipment end	\$	283.16
1036000619	AC Power Cable, UK plug with 10A fuse, 2.5m length, right angled C19 plug at equipment end	\$	174.93
1036000659	AC Power Cable, Australia, 2.5m length, right angled C19 plug at equipment end	\$	150.23
1051002532	Duplex Cable - Multimode 62.5, LC, 1000 cm	\$	71.62
1036000639	AC Power Cable, US, 2.5m length, right angled C19 plug at equipment end	\$	65.79
1036904049	Grounding cable for the ALM, 2.5m length	\$	6.74
1013904032	Grounding cable for OSA 5405-O / OSA 5405-MB, 1m long, 6 gauge	\$	86.40
1051002533	Y cable for Channel card protection, 310 cm length, SM fiber, LC to SC	\$	229.41
1051002534	Y cable for Channel card protection, 1000 cm length, SM fiber, LC to SC	\$	251.60
1051002514	Duplex Cable - Multimode 62.5, LC, 2m	\$	47.35
51002421	Duplex Cable - Multimode 62.5, LC, 31 cm	\$	47.35
1051002497	Duplex Cable - Single Mode, LC, 300 cm	\$	47.35
1051002499	Duplex Cable - Single Mode, LC to SC angled, 100 cm	\$	47.35
1051002502	Duplex Cable - Single Mode, LC to SC angled, 1000 cm	\$	47.35
1051002503	Duplex Cable - Single Mode, LC, 100 cm	\$	47.35
51002118	Duplex Cable - Multimode 62.5, LC, 90 cm	\$	57.60
1051002513	Duplex Cable - Single Mode, LC, 200 cm	\$	47.35
1051002610	Breakout Cable - Single Mode, 1 x MPO24 fan out to 24 x LC, 300 cm, LSZH	\$	963.10
1013902002	Mounting Kit for 19", ETSI and 23" Racks and Wall Mounting for devices with 443 mm width. Comes with 4 screws for rack mounting	\$	40.00
1051002611	Breakout Cable - Single Mode, 1 x MPO24 fan out to 24 x LC, 1000 cm, LSZH	\$	1,047.47

1036904055	DC Power Cable, 10m length, 3 wires AWG16 red (-48V) / black (return)/green-yellow with overall jacket, Pluggable Terminal Block at equipment end	\$	66.67
1051002612	Breakout Cable - Single Mode, 1 x MPO24 fan out to 2 x MPO12, 300 cm, LSZH	\$	819.54
1051002613	Breakout Cable - Single Mode, 1 x MPO24 fan out to 2 x MPO12, 1000 cm, LSZH	\$	918.70
1051002560	Jumper cabling LC/APC to LC/PC for connection of a 1610nm "clear channel" to the OSFMA OSC filter	\$	23.12
1051002559	Jumper cabling between ALM Monitor Unit and ALM WDM Coupler - Single Mode, LC/APC, Duplex, 310 cm	\$	54.84
1051002550	Cable, OM3 fiber, LC connector, 25 cm, LSZH	\$	23.68
1051002556	Cable, OM3 fiber, LC connector, 310 cm, LSZH	\$	23.68
1051002555	Cable, OM3 fiber, LC connector, 100 cm, LSZH	\$	23.68
1013904027	AC power adapter for use with GE101Pro.	\$	53.33
1051002551	Cable, OM3 fiber, LC connector, 30 cm, LSZH	\$	23.68
1040904050	Power Supply Module I-Temp 24W AC	\$	120.00
1040904060	Power Supply Module I-Temp 24W DC 48V	\$	120.00
1040904048-01	PSU,-48VDC, I-Temp 90W for OSA 542x, for higher temperature than 45°C (high temp from ETSI EN 300 019-1-3 Class 3.1E/3.2)	\$	532.80
1040904039	XG2x0 200Watt AC power supply	\$	353.33
1036700021	DC Power Cable, 3m length, 3 wires AWG14 red (-48V) / black (return)/green-yellow with overall jacket, ring terminal at equipment end	\$	53.94
1036700020	DC Power Cable, 3m length, 2 single wires AWG10 red (-48V) / black (+return), SUB-D connector at equipment end	\$	102.93
1036000694	AC Power Cable, C20, 2.5m length, left angled C19 plug at equipment end	\$	82.21
1036700039	DC Power Cable, 3m length, 3 wires AWG14 blue (-48V) / black (return) / green-yellow with overall jacket, flag terminal and tab connectors at equipment end	\$	83.07
1036001622	AC Power Cable, Switzerland, 2.5m length, straight equipment end, LSZH	\$	133.33
1036001680	AC Power Cable, Extension, 2.5m length, C13 to C14, LSZH	\$	113.33
1036000669	AC Power Cable, India, 2.5m length, right angled C19 plug at equipment end	\$	134.53
1036000679	AC Power Cable, Japan, 2.5m length, right angled C19 plug at equipment end	\$	118.25
1036001600	AC Power Cable, Europe, 2.5m length, left angled equipment end, LSZH	\$	48.00
1036001615	AC Power Cable, UK plug with 5A fuse, 2.5m length, straight equipment end, LSZH	\$	58.67
1036001660	AC Power Cable, India, 2.5m length, left angled equipment end, LSZH	\$	21.33
1036904136	CABLE, DC POWER, 3-POS, MINI-FIT JR-SPADE, 3 METERS, blue, grey and yellow/green color	\$	32.00
1036001670	AC Power Cable, Japan, 2.5m length, left angled equipment end, LSZH	\$	21.33
1036001630	AC Power Cable, US, 2.5m length, left angled equipment end, LSZH	\$	21.33
1036001610	AC Power Cable, UK plug with 3A fuse, 2.5m length, left angled equipment end, LSZH	\$	58.67
1036904131	CABLE, DC POWER, 3-POS, MINI-FIT JR-SPADE, 3 METERS, red, black and yellow/green color	\$	32.00
1036001611	AC Power Cable, UK plug with 3A fuse, 2.5m length, right angled equipment end, LSZH	\$	53.33
1036001650	AC Power Cable, Australia/China, 2.5m length, left angled equipment end, LSZH	\$	42.67
1040904042	XG2x0 200 Watt -48v power supply	\$	353.33
1036700018	DC Power Cable, 3m length, 2 single wires AWG10 grey (-48V)/blue (+return), SUB-D connector at equipment end	\$	139.35
1036700019	DC Power Cable, 3m length, 2 single wires AWG10 blue (-48V)/black (+return), SUB-D connector at equipment end	\$	136.95
1036700040	DC Power Cable, 3m length, 3 wires AWG14 grey (-48V) / blue (return) / green-yellow with overall jacket, flag terminal and tab connectors at equipment end	\$	83.07
1036700022	DC Power Cable, 3m length, 2 x 2 wires AWG16 red (-48V) / black (return) with overall jacket	\$	103.12

1040904033	PSU, AC, 90W	\$	233.33
1040904034	PSU,-48VDC, 90W	\$	200.00
1013904010	Rack Mounting Kit 19" for devices with 220 mm width. Used to mount a single device on 1HU into a 19" rack. Comes with 4 screws for rack mounting	\$	20.00
1013904011	Rack Mounting Kit 19" Dual Unit for devices with 220 mm width. Used to mount two devices next to each other on 1HU into a 19" rack. Comes with 4 screws for rack mounting	\$	40.00
1013904012	Mounting Kit ETSI and 23" extension adapters for devices with 220 mm width. Must be ordered additionally to 1013904010 or 1013904011. Comes with 4 screws to fasten to extender adaptor.	\$	20.00
1013904013	Wall Mounting Kit for devices with 220 mm width. Comes with 2 brackets and 4 screws	\$	13.33
1036904052	DC Power Cable, 3m length, 3 wires AWG16 red (-48V) / black (return)/green-yellow with overall jacket, Pluggable Terminal Block at equipment end	\$	41.35
1036904053	DC Power Cable, 3m length, 3 wires AWG16 grey, blue and yellow/green, Pluggable Terminal Block at equipment end	\$	42.67
1036904054	DC Power Cable, 3m length, 3 wires AWG16 blue black and yellow/green with overall jacket, Pluggable Terminal Block at equipment end	\$	42.67
1036000690	AC Power Cable, US, 2.5m length, left angled C19 plug at equipment end	\$	140.02
1051002130	Duplex Cable - Multimode 62.5, LC, 300 cm	\$	47.35
1051002131	Duplex Cable - Multimode 62.5, LC, 700 cm	\$	47.35
1051002606	Outdoor LC SMF Duplex Fibre Cable with pre-fitted Screw-in IP-67 Cable gland, 2m length	\$	600.29
1051002607	Outdoor LC MMF Duplex Fibre Cable with pre-fitted Screw-in IP-67 Cable gland, 2m length	\$	600.29
1036016007	Outdoor RJ-45 Copper Cable with pre-fitted Screw-in IP-67 Cable gland, 2m length	\$	69.03
1036904063	LSZH CABLE, -48VDC POWER, 3-POS, MINI-FIT JR-SPADE, 2,60 METERS, blue, black and yellow/green color	\$	42.19
1036000693	AC Power Cable, Japan, 2.5m length, left angled C19 plug at equipment end	\$	133.35
1040904057-01	XG120Pro 150 Watt AC power supply	\$	574.67
1040904058-01	XG120Pro 120 Watt DC power supply	\$	305.33
1036002600	Outdoor AC Power Cable, 2.5m length, Straight IP-67 equipment end. Unterminated at supply end. Live =Brown, Neutral = Blue, Earth = Green/Yellow.	\$	113.05
1036002630	Outdoor AC Power Cable, 2.5m length, Straight IP-67 equipment end. Unterminated at supply end. Live =Black, Neutral = White, Earth = Green/Yellow	\$	114.51
1036904058	Outdoor CABLE, DC POWER, 3-POS, MINI-FIT JR-SPADE/IP-67 Equipment end, 3 METERS, blue, grey and yellow/green color	\$	164.72
1036904057	Outdoor CABLE, DC POWER, 3-POS, MINI-FIT JR-SPADE/IP-67 Equipment end, 3 METERS, red, black and yellow/green color	\$	164.72
1036904060	Outdoor CABLE, DC POWER, 3-POS, MINI-FIT JR-SPADE/IP-67 Equipment end, 10 METERS, red, black and yellow/green color	\$	256.25
1036904059	Outdoor CABLE,DC POWER, 3-POS, MINI-FIT JR-SPADE/IP-67 equipment end, 3 METERS, blue, black and yellow/green color	\$	164.72
1036904036	CABLE, DC POWER, 3-POS, MINI-FIT JR-SPADE, 3 METERS, blue, grey and yellow/green color	\$	53.33
1036904037	CABLE, 24VDC EU POWER, 3-POS, SPADE, 3 METERS, blue, grey and yellow/green color	\$	47.52
1036904038	CABLE, 24VDC NA POWER, 3-POS, SPADE, 3 METERS, red, black and yellow/green color	\$	56.88
1040904123	Power Supply Module I-Temp 40W DC 48V	\$	220.00
1036904061	Outdoor CABLE, DC POWER, 3-POS, MINI-FIT JR-SPADE/IP-67 Equipment end, 10 METERS, blue, grey and yellow/green color	\$	256.25
1036904062	Outdoor CABLE,DC POWER, 3-POS, MINI-FIT JR-SPADE/IP-67 equipment end, 10 METERS, blue, black and yellow/green color	\$	256.25
1036000703	AC Power Cable, C13, Brazil, 2.5m length, straight equipment end	\$	20.00



1036000700	AC Power Cable, C13, Chile, 2.5m length, straight equipment end	\$	33.33
1036000684	AC Power Cable, C20, 2.5m length, right angled C19 plug at equipment end	\$	41.30
1051002495	Duplex Cable - Single Mode, LC, 500 cm	\$	47.35
1051002501	Duplex Cable - Single Mode, LC to SC angled, 500 cm	\$	47.35
1036700041	DC Power Cable, 3m length, 3 single wires AWG10 red (-48V)/black (+return)/green-yellow, SUB-D connector at equipment end	\$	180.36
1036700043	DC Power Cable, 3m length, 3 single wires AWG10 grey (-48V)/blue (+return)/green-yellow, SUB-D connector at equipment end	\$	186.29
1036700042	DC Power Cable, 10m length, 3 single wires AWG10 red (-48V)/black (+return)/green-yellow, SUB-D connector at equipment end	\$	364.46
1036700044	DC Power Cable, 10m length, 3 single wires AWG10 grey (-48v)/blue (+return)/green-yellow, SUB-D connector at equipment end	\$	429.37
1036700046	DC Power Cable, 10m length, 3 single wires AWG10 blue (-48V)/black (+return)/green-yellow, SUB-D connector at equipment end	\$	429.37
1036700045	DC Power Cable, 3m length, 3 single wires AWG10 blue (-48V)/black (+return)/green-yellow, SUB-D connector at equipment end	\$	174.08
1013904025	AC/DC power adapter for use with GE112Pro (m).	\$	146.67
1036000590	Video Adapter Cable, HBNC-Plug Connector to BNC-Jack Connector, 100cm	\$	157.77
1051002517	Breakout Cable - OM3 fiber, 1 x MPO24 fan out to 20 x LC, 300 cm, LSZH	\$	628.99
1040904070-01	PSU,-48VDC, 90W for OSA 5430 / 5440, high power -48v power supply (no fan or filter)	\$	436.80
1013904033	SFP threaded cover 40mm	\$	30.40
1036016008	Outdoor RJ-45 Copper Cable with pre-fitted Screw-in IP-67 Cable Seals, 10m length	\$	121.60
1051002609	Outdoor LC SMF Dual Fibre Cable with pre-fitted Screw-in IP-67 Cable Seals, 10m length	\$	448.00
1051002608	Outdoor LC MMF Dual Fibre Cable with pre-fitted Screw-in IP-67 Cable Seals, 10m length	\$	408.00
1013902004	Mounting Kit ETSI Standard Racks for devices with 443 mm width. Comes with 4 screws for rack mounting. Sub-set of 1013902002	\$	15.85
1036000712	AC Power Cable, C19, 2.5m length, straight C19 plug at equipment end, ONLY Allowed for 220V (NOT for 110V)	\$	116.50
1036800048	Power supply cord for front DC power feeding. AWG8 cables for NA market, color red (-48VDC) / black (+Return), 3 meter length, SUB-D2W2, LSZH	\$	133.94
1036800051	Power supply cord for DC power feeding. AWG8 cables for NA market, color red (-48VDC) / black (+Return), 10 meter length, SUB-D2W2, LSZH	\$	341.22
1036800050	Power supply cord for front DC power feeding. AWG8 cables for ETSI market, color grey (-48VDC) / blue (+Return), 10 meter length, SUB-D2W2, LSZH	\$	344.69
1036800047	Power supply cord for front DC power feeding. AWG8 cables for ETSI market, color grey (-48VDC) / blue (+Return), 3 meter length, SUB-D2W2, LSZH	\$	133.94
1036800046	Power supply cord for front DC power feeding. AWG8 cables for ETSI market, color blue (-48VDC) / black (+Return), 3 meter length, SUB-D2W2, LSZH	\$	110.67
1036800049	Power supply cord for front DC power feeding. AWG8 cables for ETSI market, color blue (-48VDC) / black (+Return), 10 meter length, SUB-D2W2, LSZH	\$	344.69
1036000706	AC Power Cable, Switzerland, 2.5m length, straight C19 plug at equipment end	\$	228.36
1036000705	AC Power Cable, UK plug with 10A fuse, 2.5m length, straight C19 plug at equipment end	\$	116.91
1036000704	AC Power Cable, Europe, 2.5m length, straight C19 plug at equipment end	\$	147.85
1036000708	AC Power Cable, Australia, 2.5m length, straight C19 plug at equipment end	\$	130.25
1036000710	AC Power Cable, Japan, 2.5m length, straight C19 plug at equipment end	\$	122.86
1036000711	AC Power Cable, C20, 2.5m length, straight C19 plug at equipment end	\$	169.16
1036000707	AC Power Cable, US, 2.5m length, straight C19 plug at equipment end	\$	116.50
1036800053	Power supply cord for DC power feeding. AWG14 cables for ETSI market, color grey (-48VDC) / blue (+Return), includes AWG12 grounding cable green/yellow, 3 meter length, wrapped with overall jacket, LSZH	\$	46.48

1036800052	DC-Power-Cable with 2x AWG14(2.5qmm) double isolated Solarwire PV1-F blue (-48V) black (+0V) and 1x AWG12 (4qmm) H07Z-K GN/YE, 3 meter length, LSZH. Customer side open, ADVA side pre-assembled with Spade tongue terminal M3.5.	\$	102.95
1036800056	Power supply cord for DC power feeding. AWG14 cables for ETSI market, color grey (-48VDC) / blue (+Return), includes AWG12 grounding cable green/yellow, 10 meter length, wrapped with overall jacket, LSZH	\$	126.91
1036800054	Power supply cord for DC power feeding. AWG12 cables for NA market, color red (-48VDC) / black (+Return), includes AWG12 grounding cable green/yellow, 3 meter length, wrapped with overall jacket	\$	60.40
1036800057	Power supply cord for DC power feeding. AWG12 cables for NA market, color red (-48VDC) / black (+Return), includes AWG12 grounding cable green/yellow, 10 meter length, wrapped with overall jacket	\$	161.09
1036800055	Power supply cord for DC power feeding. AWG14 cables for ETSI market, color blue (-48VDC) / black (+Return), includes AWG12 grounding cable green/yellow, 10 meter length, wrapped with overall jacket, LSZH	\$	126.91
1036000688	AC Power Cable, UK plug with 10A fuse, 2.5m length, left angled C19 plug at equipment end	\$	116.50
1036000689	AC Power Cable, Switzerland, 2.5m length, left angled C19 plug at equipment end	\$	116.50
1036000691	AC Power Cable, Australia, 2.5m length, left angled C19 plug at equipment end	\$	114.32
1013700030-01	FIPS security seals for general use	\$	35.01
1013700031-01	FIPS security seals for CFP	\$	23.62
1013700032-01	FIPS security wire seals for each module	\$	296.30
1051002515	Breakout Cable - OM3 fiber, 1 x MPO12 fan out to 8 x LC, 300 cm, LSZH	\$	436.61
1051002516	Breakout Cable - OM3 fiber, 1 x MPO12 fan out to 8 x LC, 1000 cm, LSZH	\$	562.40
1051002518	Breakout Cable - OM3 fiber, 1 x MPO24 fan out to 20 x LC, 1000 cm, LSZH	\$	843.60
1036700006	DC Power Cable, 3m length, 3 wires AWG14 grey/blue/green-yellow with overall jacket, ring terminal at equipment end	\$	53.30
1051002618	Breakout Cable - Single Mode, 1 x MPO24 fan out to 10 x LC duplex (20 x LC), 300 cm, LSZH	\$	904.06
1051002619	Breakout Cable - Single Mode, 1 x MPO24 fan out to 10 x LC duplex (20 x LC), 1000 cm, LSZH	\$	953.49
1051002617	Cable - OM3 fiber, MPO12, 1000 cm, LSZH	\$	362.59
1051002616	Cable - OM3 fiber, MPO12, 300 cm, LSZH	\$	362.59
1051002614	Breakout Cable - Single Mode, 1 x MPO12 fan out to 8 x LC, 300 cm, LSZH	\$	429.20
1051002615	Breakout Cable - Single Mode, 1 x MPO12 fan out to 8 x LC, 1000 cm, LSZH	\$	478.04
1036006013	Ethernet cable CAT6 RJ45, 3m, black	\$	14.13
1036006015	Ethernet cable CAT6 RJ45, 5m, black	\$	21.16
1036006011	Ethernet cable CAT6 RJ45, 1m, black	\$	7.45
1036904047	CABLE, DC POWER, 3-POS, MINI-FIT JR-SPADE, 2A INLINE FUSE, 3 METERS, blue, grey and yellow/green color	\$	26.67
1051002519	Duplex Cable - Single Mode, LC, 210 cm	\$	47.35
1051002520	Duplex Cable - Single Mode, LC, 310 cm	\$	47.35
1058480001-01	Tunable attenuator 1.5-35dB UPC SC/SC connectors	\$	329.77
1036000582	Serial Cable 3-WIRE DB9-F/RJ45-M, 150 cm length	\$	6.93
1058009004	Standard SC Duplex Adapter	\$	11.16
1051002521	MPO multifibre Cable - OM3 fiber, MPO24, 310 cm, LSZH	\$	710.40
1036000713	AC Power Cable, Israel 2.5m length, straight equipment end	\$	50.02
1051002544	Breakout Cable - Single Mode 1 x MPO12 fan out to 10 x LC, 110 cm	\$	478.04
1051002543	Y cable for Channel card protection, 310 cm length, OM3 fiber, LC connector	\$	273.79
1013904034	OSA GNSS Antenna L-Mounting bracket (delivered without accessories)	\$	59.20

1051002566	Breakout Cable - OM4 fiber, 1 x MPO12 fan out to 8 x LC, 300 cm, LSZH	\$	742.15
1013904468	Enhanced Mounting Bracket for 19" Racks for devices with 445.4 mm width. Comes with 4 screws for rack mounting	\$	37.35
1013904469	Enhanced Mounting Bracket for ETSI Racks for devices with 445.4 mm width. Comes with 4 screws for rack mounting	\$	37.35
1013904470	Enhanced Mounting Bracket for 23" Racks for devices with 445.4 mm width. Comes with 4 screws for rack mounting	\$	40.00
1051002564	Breakout Cable - OM4 fiber, 1 x MPO24 fan out to 20 x LC, 300 cm, LSZH	\$	1,128.06
1051002565	Breakout Cable - OM4 fiber, 1 x MPO24 fan out to 20 x LC, 1000 cm, LSZH	\$	1,341.85
1051002567	Breakout Cable - OM4 fiber, 1 x MPO12 fan out to 8 x LC, 1000 cm, LSZH	\$	879.41
1051002568	Cable - OM3 fiber, MPO16, 100 cm, LSZH	\$	330.11
1051002569	Cable - OM3 fiber, MPO16, 300 cm, LSZH	\$	374.15
1051002570	Cable - OM3 fiber, MPO16, 500 cm, LSZH	\$	418.17
1036002634	AC Power Cable, C5, US, 2.5m length, right angled equipment end	\$	46.67
1036700058	DC Power Cable, 3m length, overall jacket (PVC-cable LivYY UL/CSA), 2 tinned wires AWG16 red (-48V) / black (+return), 2W2 SUB-D 2-pole straight connector at equipment end	\$	59.39
1036800068	DC power cable according BauPVO B2ca s1 d1 a1 cable double isolated 2x AWG14 (2.5qmm) white (-48V) red (+0V), separate wire 1x AWG12 (4qmm) green/yellow, 10 meter length, Customer side open, ADVA side pre-assembled with Spade tongue terminal M3.5	\$	131.98
1036904094	DC Power Cable, 3m length, 3 wires AWG16 grey, blue and yellow/green, Pluggable Terminal Block at equipment end, LSZH	\$	33.31
1036000695	AC Power Cable, India, 2.5m length, left angled C19 plug at equipment end, 16A-Connector (IS1293) for wall-socket	\$	105.60
1036700063	DC power cable according BauPVO B2ca s1 d1 a1 3m length, double isolated cable AWG16 (1.5qmm) white (-48V)/red (+return), SUB-D 2W2 connector at equipment end	\$	115.09
1036800067	DC power cable according BauPVO B2ca s1 d1 a1 cable double isolated 2x AWG14 (2.5qmm) white (-48V) red (+0V), separate wire 1x AWG12 (4qmm) green/yellow, 3 meter length, Customer side open, ADVA side pre-assembled with Spade tongue terminal M3.5	\$	115.09
1036800071	DC power cable according BauPVO B2ca s1 d1 a1 Power supply cord for DC power feeding. AWG8 (10qmm) cables for ETSI market, color white (-48VDC) / red (+Return), 10 meter length, SUB-D2W2, LSZH, double insulated single wire.	\$	820.86
1036800069	DC power cable according BauPVO B2ca s1 d1 a1 Power supply cord for DC power feeding. AWG8 (10qmm) cables for ETSI market, color white (-48VDC) / red (+Return), 3 meter length, SUB-D2W2, LSZH, double insulated single wire.	\$	330.00
1036904095	DC power cable according BauPVO B2ca s1 d1 a1 3m length, double isolated cable AWG14 (2.5qmm) white (-48V)/red (+return), Pluggable Terminal Block at equipment end Widened (-20C to +85C)	\$	117.87
1036000613-01	AC Power Cable, C15, UK plug with 10A fuse, 2.5m length, straight equipment end	\$	60.00
1058009002	Optical Adapter LC to LC	\$	37.54
1036000633-01	AC Power Cable, C15, US, 2.5m length, straight equipment end	\$	113.33
1036007011	Ethernet cable CAT6 RJ45 grey 1m length according BauPVO B2ca s1 d1 a1	\$	32.00
1040904104-01	Pluggable PoE PSU, AC, I-Temp 200 watts	\$	1,153.33
1040904103-01	Optional XO126 Pluggable Surge Protection for outdoor devices, AC, I-Temp, Spare Part Only	\$	300.00
1036002635	AC Power Cable, C5, C14, 1m length, right angled equipment end	\$	26.67
1036002633	AC Power Cable, C5, UK plug with 5A fuse, 2.5m length, right angled equipment end	\$	46.67
1051002750	MPO Multifibre Cable, conform to B2ca - Single Mode, MPO12, 33cm	\$	933.33
1036700067	DC Power Cable, 3m length, 2 single wires AWG10 white (-48V)/blue (+return), SUB-D connector at equipment end	\$	160.00

1051002757	SN to SN duplex connector cable - Single Mode 1 x duplex SN to 1 x duplex SN, 1000 cm, LSZH	\$	160.00
1036904097	DC Power Cable, 3m length, 3 wires AWG16 white (-48V)/blue(+0V return) and yellow/green, Pluggable Terminal Block at equipment end	\$	117.87
1036700066	DC Power Cable, 3m length, 2 x 2 wires AWG16 white (-48V)/blue(+0V return) with overall jacket	\$	160.00
1051002744	Breakout Cable - Single Mode, 1 x MPO12 fan out to 12 x LC, 300 cm, LSZH	\$	448.51
1040904113-01	Optional XO126 Pluggable Surge Protection for outdoor devices, DC -48V, I-Temp, Spare Part Only	\$	240.00
1036000571	Interface Cable 3m length of IEEE1394 type according BauPVO B2ca s1 d1 a1	\$	74.67
1051002751	MPO Multifibre Cable, conform to B2ca - Single Mode, MPO12, 300cm	\$	1,000.00
1051002756	SN to SN duplex connector cable - Single Mode 1 x duplex SN to 1 x duplex SN, 300 cm, LSZH	\$	133.33
1036800065	DC Power Cable, 10m length, 3 single wires AWG10 red (-48V)/black (+return)/green-yellow, straight SUB-D connector at equipment end	\$	391.90
1051002752	MPO Multifibre Cable, conform to B2ca - Single Mode, MPO12, 1000cm	\$	1,133.33
1036700068	DC Power Cable with Molex connector, 0.45m length, 2 x 2 wires AWG16 white (-48V)/blue(+0V return)	\$	160.00
1036007013	Ethernet cable CAT6 RJ45 grey 3m length according BauPVO B2ca s1 d1 a1	\$	40.00
1036800075	DC Power Cable, 3m length, 3 single wires AWG10 white (-48V)/blue (+return)/green-yellow, straight SUB-D connector at equipment end	\$	208.34
1036904096	LSZH Earthing Kit with 3m cable, 4 mm2, yellow/green according BauPVO B2ca s1 a1 d1, ring terminal, nuts and washers	\$	55.47
1036800083	Power supply cord for front DC power feeding. AWG8 cables for ETSI market, color white (-48V)/blue(+0V return), 3 meter length, SUB-D2W2, LSZH	\$	160.00
1051002754	MPO Breakout Cable - OM3 fiber, 1 x MPO12 fan out to 8 x LC, conform to B2ca - 300 cm	\$	1,266.67
1058009006	MPO adapter up-down, reduced flange, black	\$	13.33
1040904114-01	Pluggable PoE PSU DC -48V, I-Temp 200 watts	\$	1,153.33
1051002758	SN to LC duplex connector cable - Single Mode 1 x duplex SN to 1 x uniboot duplex LC, 300 cm, LSZH	\$	80.00
1036002632	AC Power Cable, C5, Europe, 2.5m length, right angled equipment end	\$	46.67
1051002755	MPO Multifiber Cable - OM3 fiber, conform to B2ca - 300cm	\$	973.33
1051002746	Jumper for cabling between ALM unit and WDM coupler / AUX port, conform to B2ca - Single Mode, LC/APC, 150 cm	\$	60.00
1040904101-01	Pluggable PSU, AC, I-Temp 100 Watts	\$	613.33
1051002749	Duplex Cable, conform to B2ca - Multimode OM4, LC, 500cm	\$	80.00
1051002747	Jumper APC/PC adapter for connection of 1610nm "clear channel" to AUX port, conform to B2ca - Single Mode, LC/APC, 310 cm	\$	53.33
1051002759	SN to LC duplex connector cable - Single Mode 1 x duplex SN to 1 x uniboot duplex LC, 1000 cm, LSZH	\$	133.33
1051002748	Duplex Cable, conform to B2ca - Multimode OM4, LC, 90cm	\$	73.33
1036002636	AC Power Cable, C5, Europe, conform to B2ca, 2.5m length, right angled equipment end	\$	100.00
1036904098	Power supply cord for front DC power feeding. AWG16 cables for ETSI market, color white (-48V)/blue(+0V return), 3 meter length.	\$	117.87
1040904111-01	Pluggable PSU, DC -48V, I-Temp 100 watts	\$	613.33
1036700073	DC Power Cable, 3m length, 3 single wires AWG10 white (-48V)/blue(+0V return)/green-yellow, SUB-D connector at equipment end	\$	160.00
1036800076	DC Power Cable, 10m length, 3 single wires AWG10 white (-48V)/blue (+return)/green-yellow, straight SUB-D connector at equipment end	\$	480.15
1013002995	1HU Fiber Management bracket (2 pcs.)	\$	21.33
1051002745	Breakout Cable - Single Mode, 1 x MPO12 fan out to 12 x LC, 1000 cm, LSZH	\$	478.04

1051002753	MPO Breakout Cable - Single Mode, 1 x MPO12 fan out to 8 x LC, conform to B2ca - 300 cm	\$	1,266.67
1013902007	XG490 Shelf Front cover	\$	835.12
1036800081	Power supply cord for DC power feeding. AWG14 cables for ETSI market, color white (-48V)/blue(+0V return), includes AWG12 grounding cable green/yellow, 3 meter length, wrapped with overall jacket, LSZH	\$	160.00
1036700057	DC Power Cable, 3m length, overall jacket (PVC-cable LivYY UL/CSA), 2 tinned wires AWG16 blue (-48V) / black (+return), 2W2 SUB-D 2-pole straight connector at equipment end	\$	59.39
1036006020	Ethernet cable CAT6 RJ45, 10m, black	\$	65.26
1036800064	DC Power Cable, 3m length, 3 single wires AWG10 red (-48V)/black (+return)/green-yellow, straight SUB-D connector at equipment end	\$	193.96
1051002578	Jumper for internal cabling - Single Mode, LC, 800 cm	\$	30.44
1036700059	DC Power Cable, 3m length, overall jacket (PVC-cable LivYY UL/CSA), 2 tinned wires AWG16 grey (-48V) / blue (+return), 2W2 SUB-D 2-pole straight connector at equipment end	\$	59.39
1013902005	Mounting Kit for 23" Racks for 1RU devices. Comes with 4 screws for rack mounting	\$	83.20
1013904038	Mounting Kit for 23" Racks for 2RU devices. Comes with 4 screws for rack mounting	\$	83.20
1036000653-01	AC Power Cable, C15, Australia/China, 2.5m length, straight equipment end	\$	113.33
1040904082-01	XGPRO 250 Watt AC power supply	\$	909.33
1036000603-01	AC Power Cable, C15, Europe, 2.5m length, straight equipment end	\$	106.67
1013904045	Connector straight for high AC/DC voltage PSU 1040904032-01	\$	35.20
1040904032-01	PSU, 100-240 VAC & 100-250 VDC, 90W for OSA 5422 and OSA5412.	\$	400.00
1013904046	Connector 90deg angled for 542x high AC/DC voltage PSU 1040904032-01	\$	35.20
1036000714	AC Power Cable, India, 2.5m length, straight C19 plug at equipment end, 16A-Connector (IS1293) for wall-socket	\$	105.60
1036700047	DC Power Cable, 3m length, double insulated Cable LivYY UL/CSA 3x AWG14 red (-48V)/black (+return)/green-yellow, SUB-D connector at equipment end. Left routed	\$	175.22
1040904091-01	Pluggable PSU with 72watts, DC -48V, I-Temp	\$	300.00
1051002705	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 25 cm	\$	44.38
1051002706	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 30 cm	\$	44.38
1051002707	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 35 cm	\$	44.38
1051002708	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 40 cm	\$	44.38
1051002709	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 45 cm	\$	44.38
1051002710	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 50 cm	\$	44.38
1051002711	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 55 cm	\$	44.38
1051002712	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 60 cm	\$	44.38
1051002713	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 65 cm	\$	44.38
1051002714	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 70 cm	\$	44.38
1051002715	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 75 cm	\$	44.38
1051002716	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 80 cm	\$	44.38
1051002717	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 85 cm	\$	44.38
1051002734	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 240 cm	\$	44.38
1036000663-01	AC Power Cable, C15, India, 2.5m length, straight equipment end	\$	113.33
1036000623-01	AC Power Cable, C15, Switzerland, 2.5m length, straight equipment end	\$	106.67
1036000673-01	AC Power Cable, C15, Japan, 2.5m length, straight equipment end	\$	113.33
1036800070	Power supply cord for DC power feeding. AWG14 cable, color grey (-48VDC) / blue (+Return), grounding cable green/yellow, 5 meter length, wrapped with overall jacket, LSZH	\$	48.00
1051002718	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 90 cm	\$	44.38

1051002719	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 95 cm	\$	44.38
1051002720	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 100 cm	\$	44.38
1051002721	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 105 cm	\$	44.38
1051002722	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 110 cm	\$	44.38
1051002723	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 115 cm	\$	44.38
1051002724	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 120 cm	\$	44.38
1051002725	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 130 cm	\$	44.38
1051002726	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 140 cm	\$	44.38
1051002727	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 150 cm	\$	44.38
1051002728	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 160 cm	\$	44.38
1051002729	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 170 cm	\$	44.38
1051002730	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 180 cm	\$	44.38
1051002731	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 190 cm	\$	44.38
1051002732	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 210 cm	\$	44.38
1051002733	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 230 cm	\$	44.38
1051002735	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 280 cm	\$	44.38
1051002736	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 300 cm	\$	44.38
1040800069-01	Power Supply Module AC, 400W, AC 110V/240V and DC 240V, front power feeding, for F8/SH2R, F8/SH2, XG404 and XG418	\$	526.88
1036700060	DC power cable according BauPVO B2ca s1 d1 a1 3m length, 2 single double isolated wires AWG10 white (-48V)/red (+return), SUB-D connector at equipment end	\$	153.16
1036700061	DC power cable according BauPVO B2ca s1 d1 a1 10m length, 2 single double isolated wires AWG10 white (-48V)/red (+return), SUB-D connector at equipment end	\$	371.71
1036800072	DC power cable according BauPVO B2ca s1 d1 a1 3m length, 2 single double isolated wire AWG10 (6qmm), color white (-48VDC) / red (+Return) and 1 single isolated wire green/yellow, 3 meter length, SUB-D 5W5 connector at equipment end	\$	194.63
1036800073	DC power cable according BauPVO B2ca s1 d1 a1 10m length, 2 single double isolated wire AWG10 (6qmm), color white (-48VDC) / red (+Return) and 1 single isolated wire green/yellow, 3 meter length, SUB-D 5W5 connector at equipment end	\$	480.15
1036700064	DC Power Cable, 3m length, 2 x 2 wires AWG16 white (-48V)/red (+return) with overall jacket	\$	160.00
1036000591	USB-A to RJ45-CISCO Pinning serial adapter cable , 180 cm	\$	72.11
1036000592	USB cable 1m, with screw lock USB-C to USB-C	\$	123.41
1051002737	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 310 cm	\$	44.38
1051002738	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 500 cm	\$	83.20
1051002742	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 800 cm	\$	80.00
1051002739	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 1000 cm	\$	83.20
1051002740	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 2500 cm	\$	104.00
1051002741	Jumper for internal cabling, conform to B2ca - Single Mode, LC, 4500 cm	\$	124.80
1036000588	USB Cable 1.5m Micro USB to USB-A	\$	13.33
1040904059-01	XGPro 100 Watt AC power supply	\$	598.65
1040904085-01	XGPRO 240 Watt -48v power supply	\$	498.67
1040904086-01	XGPRO 200 Watt AC power supply	\$	845.33
1036016009	Outdoor RJ-45 Copper Cable with Male RJ-45 to waterproof female RJ-45 connector	\$	119.30
1051002577	Outdoor Cable - Single Mode, LC-OptiTap, 80 cm	\$	366.08
1036700050	DC Power Cable, 3m length, 3 wires AWG14 red (-48V) / black (return)/green-yellow with overall jacket, M3 ring terminals at equipment end	\$	60.42
BC47015906-01	Rack mounting accessories including 4x M6x20mm screws + 4x M6 cage nuts, for equipment rack integration	\$	160.00

1040904090-01	Pluggable PSU 68 watts, AC, I-Temp	\$	113.33
1013904036	OSA GNSS Pipe Mounting Adaptor	\$	76.80
1036700053	DC Power Cable, 3m length, 2 single wires AWG10 blue (-48V) / red (+return), SUB-D connector at equipment end	\$	143.37
1036700054	DC Power Cable, 10m length, 2 single wires AWG10 blue (-48V) / red (+return), SUB-D connector at equipment end	\$	250.61
1040904100-01	Pluggable PSU 48 watts, AC, I-Temp, for Outdoor Devices, Spare Part only	\$	173.33
1040904112-01	Surge Protection Module DC Type 1 for outdoor Devices, Spare Part only	\$	173.33
1040904110-01	Pluggable PSU 48 watts, DC -48V, I-Temp, for Outdoor Devices, Spare Part only	\$	180.00
1040904102-01	Surge Protection Module AC Type 1 for outdoor Devices, Spare Part only	\$	180.00
1013904057	XO106 and XO126 Strand Mounting Kit	\$	360.00
1013904056	XO106 and XO126 Pole Mounting Kit	\$	300.00
1013904055	XO106 and XO126 Wall Mounting Kit	\$	173.33
1013900010	FSP 150-XG404 Fan Tray Module-filter replacement	\$	16.00
1036700055	DC Power Cable, LSZH, 3m length, 2 single wires AWG10 blue/black, blue and black solar PV1-F wire, SUB-D 3W3 connector over-molded at equipment end	\$	174.57
1036700056	DC Power Cable, LSZH, 3m length, 2 single wires AWG14 blue/black+ 1 wire 2.5mm2 green-yellow wrapped in black spiral hose, blue and black solar PV1-F wire, Phoenix connector with strain relief at equipment end	\$	148.65
1058009001	Optical Adapter SC to SC	\$	13.33
1036904092	LSZH DC Power Cable, 3m length, 2 wires AWG14 blue black with overall jacket, Pluggable Terminal Block at equipment end	\$	80.88
1036904093	LSZH Earthing Kit with 3m cable, 4 mm2, yellow/green, ring terminal, nuts and washers	\$	55.47
1051002491	Jumper for internal cabling - Single Mode, LC, 20 cm	\$	47.35
1040800056-01	Power Supply Module DC, 400W, DC 48V, front power feeding, for F8/SH2R, F8/SH2, XG404 and XG418	\$	507.45
1036000593	USB cable 2m, with screw lock USB-C to USB-C	\$	165.33
1036000594	USB Cable 1m, USB2-Standard-A to USB2-Standard-B	\$	26.67
1091904563-01	OSA 5405/INPUT 1588-PTP	\$	660.00
1078904679-01	OSA 54xx 16xBITS Output Card	\$	1,650.00
1078904673-01	OSA 5421 with very high Quartz HQ++ (Stratum 2E G.812 Type II), ageing/Day +/-1e-11 with holdover algorithm, +/-5e-11 without it, Temperature stability +/-1e-11, GNSS receiver for GPS L1, GLONASS G1, BeiDou B1, Galileo E1, pluggable PSUs, 1x Exp Slot	\$	6,824.40
1078904674-01	OSA 5421 with Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, Temperature stability +/-2e-10, GNSS receiver for GPS L1, GLONASS G1, BeiDou B1, Galileo E1, pluggable PSUs, 1x Exp Slot	\$	8,690.88
1036005403-01	High Density Cable 220 cm, LSZH	\$	236.28
1078904660-02	OSA 5411 with one Quartz ( Stratum 3E G.812 Type III), ageing/Day +/-5e-10, Temperature stability +/-50e-10, integrated GNSS receiver for GPS L1, GLONASS G1, BeiDou B1, Galileo E1, pluggable PSUs	\$	4,864.20
1091904912-01	OSA 542X/3X/4X/SYNC 1588-PTP /UPG-KEY-128-1024	\$	2,399.77
1091904913-01	OSA 542X/3X/4X/SYNC 1588-PTP /UPG-KEY-256-1024	\$	1,599.83
1078904661-02	OSA 5411 with Rubidium ( Stratum 3E G.812 Type III), ageing/Day +/-5e-12, Temperature stability +/-2e-10, integrated GNSS receiver for GPS L1, GLONASS G1, BeiDou B1, Galileo E1, pluggable PSUs	\$	7,623.00
1078904650-02	OSA 5410 with one Quartz (Stratum 3E G.812 Type III), ageing/Day +/-5e-10, Temperature stability +/-50e-10, with integrated AC PSU and GNSS receiver for GPS L1, GLONASS G1, BeiDou B1, Galileo E1	\$	3,557.40
1091904671-01	SYNCJACK OS, OSA 541X, Extended Probes License Key	\$	942.48
1091904673-01	OSA 541X/SYNC 1588-PTP /KEY-8	\$	942.48
1091904675-01	OSA 541X/SYNC 1588-PTP /UPG-KEY-8-32	\$	471.23

1091904677-01	OSA 541X/SYNC 1588-PTP /UPG-KEY-8-64	\$	1,169.52
1091904676-01	OSA 541X/SYNC 1588-PTP /KEY-64	\$	2,112.00
1091904674-01	OSA 541X/SYNC 1588-PTP /KEY-32	\$	1,413.72
1091904679-01	OSA 541X/SYNC 1588-PTP /G8275-1-L2	\$	1,452.00
1091904678-01	OSA 541X/SYNC 1588-PTP /UPG-KEY-32-64	\$	698.28
1091904681-01	OSA 541X/SYNC 1588-PTP /PTP-ENTERPRISE/PTP-IP-MULTI	\$	2,006.40
1091904907-01	OSA 5412/2X/3X/4X/SYNC 1588-PTP /UPG-KEY-256-512	\$	799.92
1091904906-01	OSA 5412/2X/3X/4X/SYNC 1588-PTP /UPG-KEY-128-512	\$	1,599.83
1091904905-01	OSA 5412/2X/3X/4X/SYNC 1588-PTP /UPG-KEY-128-256	\$	799.92
1036005404-01	High Density Cable 30 cm, LSZH	\$	163.68
BC47020179-01	OSA 5405-I Kit, including OSA 5405-I Smart L1 GNSS antenna (GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS) /PRTC /PTP GM with Stratum 3E OCXO, windows mounting (1063904610-01) + wall mounitng kit (1047026090-01)	\$	2,824.80
BC47020180-01	OSA 5405-O Kit, including OSA 5405 Smart L1 GNSS antenna (GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS) /PRTC /PTP GM with Stratum 3E OCXO (1063904620-01) + Outdoor mounting kit for wall/pole mounting (1047026091-01)	\$	2,905.32
1091904557-01	OSA 5405/SYNC 1588-PTP /UPG-KEY-8-64	\$	1,584.00
1078904664-01	OSA 5411 with very high quality Quartz-HQ ++(Stratum 2E G.812 Type II),ageing/Day +/-1e-11 with holdover algorithm,+/-5e-11 without it,Temperature stability +/-1e-11,integrated GNSS receiver for GPS L1, GLONASS G1,BeiDou B1,Galileo E1,pluggable PSUs.	\$	6,388.80
1091904911-01	OSA 5412/2X/3X/4X/SYNC 1588-PTP /UPG-KEY-512-1024	\$	799.92
1078904651-02	OSA 5410 with one Quartz (Stratum 3E G.812 Type III), ageing/Day +/-5e-10, Temperature stability +/-50e-10, with integrated -48VDC PSU and GNSS receiver for GPS L1, GLONASS G1, BeiDou B1, Galileo E1	\$	3,557.40
1063904601-02	OSA 5401 SYNCPLUG SFP , including Stratum 3E OCXO	\$	2,032.80
1091904689-03	SYNCJACK OS, OSA 542X, PRE-INSTALLED SW, R8.5.3	\$	159.72
1047026090-01	OSA 5405-I / OSA 5405-P wall mounting bracket	\$	66.00
1063904620-01	OSA 5405 Smart L1 GNSS antenna (GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS) /PRTC /PTP GM with Stratum 3E OCXO	\$	2,781.23
1063904610-01	OSA 5405-I Smart L1 GNSS antenna (GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS) /PRTC /PTP GM with Stratum 3E OCXO	\$	2,758.80
1047026091-01	OSA 5405-O / OSA 5405-MB Outdoor mounting kit for wall/pole mounting. For pole diameter 38~89mm	\$	124.08
1091904694-01	SYNCJACK OS, OSA 541X, PRE-INSTALLED SW, R9.5.1	\$	159.72
1091904556-01	OSA 5405/SYNC 1588-PTP /UPG-KEY-8-32	\$	1,056.00
1091904555-01	OSA 5405/SYNC 1588-PTP /UPG-KEY-8-16	\$	528.00
1091904560-01	OSA 5405/SYNC 1588-PTP /UPG-KEY-32-64	\$	528.00
1091904559-01	OSA 5405/SYNC 1588-PTP /UPG-KEY-16-64	\$	1,056.00
1091904558-01	OSA 5405/SYNC 1588-PTP /UPG-KEY-16-32	\$	528.00
1091904561-01	SYNCJACK OS, OSA 540x, Probes License Key to extend to 2x Clock probe + 2x PTP clock probe	\$	660.00
1091904688-03	SYNCJACK OS, OSA 542X, PRE-INSTALLED SW, R9.1.3	\$	159.72
1047026081-01	OSA 542x 16 x BNC output panel for BITS, 75 ohm	\$	396.00
1091904562-01	OSA 5401/SYNC 1588-PTP /UPG-KEY-32-64	\$	792.02
1091904695-02	SYNCJACK OS, OSA 542X, PRE-INSTALLED SW, R9.5.2	\$	159.72
1047026089-01	OSA 542x 16 x BNC output panel for CLK, 50 ohm	\$	435.58
1047026082-01	OSA 542x 16 x RJ-45/48 output panel for BITS, 120 ohm	\$	435.58
1047026083-01	OSA 542x 16 x RJ-45/48 output panel for ToD+1PPS, 100/120 ohm	\$	396.00
1047026084-01	OSA 542x 16 x BNC output panel for 1PPS, 50 ohm	\$	435.58



1047026087-01	OSA 54xx 16x ToD and 1PPS Output Card	\$	653.40
1047026085-01	OSA 542X, 4-port GE fiber expansion module, SFP optics	\$	726.00
1047026086-01	OSA 542x 16x Clock and 1PPS Output Card	\$	653.40
1078904671-01	OSA 5420 with High Quality Quartz - HQ+ (G.812 Type I), ageing/Day +/-1e-10 with holdover algorithm +/-2e-10 without it, Temperature stability +/-2e-10, GNSS receiver for GPS L1, GLONASS G1, BeiDou B1, Galileo E1, pluggable PSUs, 2x Exp Slot	\$	5,500.43
1078904670-01	OSA 5420 with OCXO (Stratum 3E G.812 Type III), ageing/Day +/-5e-10, Temperature stability +/-50e-10, GNSS receiver for GPS L1, GLONASS G1, BeiDou B1, Galileo E1, pluggable PSUs, 2x Exp Slot	\$	4,501.20
1091904698-01	SYNCJACK OS, OSA 542X, PRE-INSTALLED SW, R10.2.1	\$	159.72
1091904727-01	SYNCJACK OS, OSA 5405, Pre-installed SW, R11.5.1	\$	-
1047026094-01	OSA 5405-P spare DIN Rail Aluminium Mounting Bracket + ETSI/19" mounting bracket	\$	58.08
1063904611-01	OSA 5405-P Kit, GNSS/PRTC/PTP Grand Master. Stratum 3E OCXO, configurable IRIG outputs (Optical / AM / DCLS), relay contacts, with DIN/ETSI/19" mounting bracket included	\$	2,904.00
1063904621-01	OSA 5405-MB Smart Multiband L1+L2 GNSS antenna (GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS) /PRTC /PTP GM with Stratum 3E enhanced OCXO	\$	4,567.20
1091904577-01	OSA 5405 NTP profile basic system software license, including: NTP basic key license, up to 4000 TPS	\$	792.02
1091904572-01	OSA 5405/SYNC NTP/RESPONDER	\$	1,980.00
1091904573-01	OSA 5401/SYNC NTP/RESPONDER	\$	1,980.00
1091904575-01	OSA 5405 Power profile basic system software license, including: PTP power profiles, 1x Clock Probe, 1x PTP Probe	\$	1,188.00
1091904576-01	OSA 5405 Broadcast/Enterprise profile basic system software license, including: PTP Broadcast profiles, 1x Clock Probe, 1x PTP Probe , default L3 multicast	\$	1,188.00
1091904579-01	OSA 5401 Power profile basic system software license, including: PTP power profiles, 1x Clock Probe, 1x PTP Probe	\$	1,188.00
1091904580-01	OSA 5401 Broadcast/Enterprise profile basic system software license, including: PTP Broadcast profiles, 1x Clock Probe, 1x PTP Probe , default L3 multicast	\$	1,188.00
1091904581-01	OSA 5401 NTP profile basic system software license, including: NTP basic key license, up to 4000 TPS	\$	792.02
1091904582-01	OSA 5405/TELECOM PROFILE 1588-PTP	\$	660.00
1091904583-01	OSA 5401/TELECOM PROFILE 1588-PTP	\$	660.00
1091904728-01	SYNCJACK OS, OSA 5401, Pre-installed SW, R11.5.1	\$	-
1091904961-02	SYNCJACK OS, OSA 5412 and OSA 5422, Pre-installed SW, R11.1.2	\$	-
1063904707-02	OSA 5422 Time Code Module, with 1x IRIG-B Input AM/DCLS (BNC), 1x optical out (ST), 1x RS422 (RJ11), 1x alarm/pulse relay, 10x IRIG outputs on high density connector	\$	3,136.32
1091905933-01	OSA 540X/A-GNSS-INTF-DET/KEY	\$	660.00
1063904507-01	OSA 5400 SyncModule MB L1+L5, Multiband band L1+L5 GNSS receiver, NGFF M.2 Type 2280 Key B	\$	2,831.40
1091904735-01	OSA 5401 SYNCJACK OS, PRE-INSTALLED SW, R12.1.1	\$	-
1063904714-01	OSA 5422 Broadcast card for Audio and Video legacy Sync signals, 4x OUT + 1x IN, SMA connectors	\$	3,136.32
1047026095-01	OSA 5422 10 x Wire-wrap output panel for CC outputs	\$	435.58
1078904667-01	OSA 5412 with very high Quartz HQ++ (Stratum 2E G.812 Type II), ageing/Day +/-1e-11 with holdover algorithm,+/-5e-11 without it, Temperature stability +/-50e-10, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	6,534.00
1063904715-01	10 x 64kbits/s CC Line Card for OSA 5422, providing 10 x 64kbits/s CC Output + 1x CC sync input	\$	2,468.40
1091904697-01	OSA 5405 SYNCJACK OS, PRE-INSTALLED SW, R9.5.1	\$	159.72
1063904622-01	OSA 5405-MB Smart Multiband L1+L5 GNSS antenna (GPS, GLONASS, BEIDOU, GALILEO, IRNSS NavIC, QZSS, SBAS) /PRTC /PTP GM with Stratum 3E enhanced OCXO	\$	4,567.20

BC47020605-01	SoftSync + ENC License., 12 months subscription client license, including Service + ENC connection license for Qty 2000+	\$	58.63
1091904988-01	OSA 5410XG system software, including PTP Slave, Probes Count: 1x Clock Probe, 1x PTP Clock Probe, 1x PTP Network Probe, 32x PTP slaves G.8265.1/75.2, 2x copper 1GB ports, 2x SFP/SFP+ ports.	\$	489.72
1078904695-01	OSA 5410XG with OCXO (Stratum 3E G.812 Type III), ageing/Day +/-5e-10, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 48VDC PSU Input, 2x copper 1GB ports + 2x SFP/SFP+ 1/10GB ports (expandable to 4x ports)	\$	3,300.00
BC47020692-01	SoftSync + ENC License., 9 months subscription client license, including Service + ENC connection license for Qty 100-499	\$	66.67
1078904698-01	OSA 5410XG with OCXO (Stratum 3E G.812 Type III), ageing/Day +/-5e-10, Multiband GNSS receiver for L1+L5 (GPS, GLONASS, BeiDou, Galileo), 230VAC PSU Input, 2x copper 1GB ports + 2x SFP/SFP+ 1/10GB ports (expandable to 4x ports)	\$	4,755.30
BC47020601-01	SoftSync + ENC License., 12 months subscription client license, including Service + ENC connection license for Qty 1-99	\$	119.63
BC47020602-01	SoftSync + ENC License., 12 months subscription client license, including Service + ENC connection license for Qty 100-499	\$	88.43
BC47020662-01	SoftSync + ENC License., 6 months subscription client license, including Service + ENC connection license for Qty 100-499	\$	43.67
BC47020691-01	SoftSync + ENC License., 9 months subscription client license, including Service + ENC connection license for Qty 1-99	\$	89.83
BC47020561-01	SoftSync 6 months subscription client expansion license, including Service for Qty 1-99	\$	50.58
BC47020661-01	SoftSync + ENC License., 6 months subscription client license, including Service + ENC connection license for Qty 1-99	\$	60.37
1091904990-01	OSA 5410XG - License for 2x additional SFP/SFP+ ports (total 4 ports)	\$	264.00
BC47020562-01	SoftSync 6 months subscription client expansion license, including Service for Qty 100-499	\$	36.52
1091904987-01	SYNCJACK OS, OSA 541X, Pre-installed SW, R12.1.1	\$	-
BC47020532-01	SoftSync 3 months subscription client expansion license, including Service for Qty 100-499	\$	18.27
1091904728-02	SYNCJACK OS, OSA 5401, Pre-installed SW, R11.5.2	\$	-
BC47020603-01	SoftSync + ENC License., 12 months subscription client license, including Service + ENC connection license for Qty 500-999	\$	78.05
1091904989-01	IRIG-B I/O license to enable 4x IRIG-B (3x AM or DCLS + 1x DCLS configurable either Input or Output)	\$	880.00
BC47020632-01	SoftSync + ENC License., 3 months subscription client license, including Service + ENC connection license for Qty 100-499	\$	21.88
BC47020592-01	SoftSync 9 months subscription client expansion license, including Service for Qty 100-499	\$	55.88
1091904955-02	SYNCJACK OS, OSA 542X, Pre-installed SW, R11.1.2	\$	-
1078904697-01	OSA 5410XG with OCXO (Stratum 3E G.812 Type III), ageing/Day +/-5e-10, Multiband GNSS receiver for L1+L5 (GPS, GLONASS, BeiDou, Galileo), 48VDC PSU Input, 2x copper 1GB ports + 2x SFP/SFP+ 1/10GB ports (expandable to 4x ports)	\$	4,755.30
BC47020604-01	SoftSync + ENC License., 12 months subscription client license, including Service + ENC connection license for Qty 1000-1999	\$	63.27
1091905936-01	OSA 5412-2X/MS-COMB/KEY	\$	6,600.00
BC47020631-01	SoftSync + ENC License., 3 months subscription client license, including Service + ENC connection license for Qty 1-99	\$	29.47
1078904696-01	OSA 5410XG with OCXO (Stratum 3E G.812 Type III), ageing/Day +/-5e-10, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 230VAC PSU Input, 2x copper 1GB ports + 2x SFP/SFP+ 1/10GB ports (expandable to 4x ports)	\$	3,300.00
BC47020531-01	SoftSync 3 months subscription client expansion license, including Service for Qty 1-99	\$	24.73
BC47020505-01	SoftSync 12 months subscription client license, including Service for Qty 2000+	\$	49.17

1063904601-05	OSA 5401 SYNCPLUG GNSS and PTP Grand Master SFP , including Stratum 3E OCXO	\$	2,032.80
1078904677-91	OSA 5422 with very high Quartz HQ++ (Stratum 2E G.812 Type II), ageing/Day +/-1e-11 with holdover algorithm,+/-5e-11 without it, Temperature stability +/-1e-11, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	6,824.40
1078904675-91	OSA 5422 with OCXO (Stratum 3E G.812 Type III), ageing/Day +/-5e-10, Temp. stability +/-50e-10, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	4,501.20
1078904684-91	OSA 5422 with Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	10,497.97
1078904665-91	OSA 5412 with OCXO (Stratum 3E G.812 Type III), ageing/Day +/-5e-10, Temperature stability +/-50e-10, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	3,049.20
BC47020591-01	SoftSync 9 months subscription client expansion license, including Service for Qty 1-99	\$	75.30
1091905935-01	OSA 543X-4X/MS-COMB/KEY	\$	6,600.00
1091904694-04	SYNCJACK OS, OSA 541X, PRE-INSTALLED SW, R9.5.4	\$	159.72
1078904676-91	OSA 5422 with High Quality Quartz - HQ+ (G.812 Type I), ageing/Day +/-1e-10 with holdover algorithm +/-2e-10 without it, Temperature stability +/-2e-10, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp Slot	\$	5,500.43
BC47020179-92	OSA 5405-I Kit, including OSA 5405-I Smart L1 GNSS antenna (GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS) /PRTC /PTP GM with Stratum 3E enhanced OCXO, windows mounting (1063904610-92) + wall mounitng kit (1047026090-01)	\$	2,614.92
1091904593-01	OSA 5400 Telecom profile basic system software license, including: 1x Clock Probe, 1x PTP Probe, layer 2 default profiles, G.8275.1 profile, enterprise profile, 32x IP unicast PTP Slaves G.8265.1 / G.8275.2, Sync-E	\$	554.40
1091904731-01	SYNCJACK OS, OSA 5400, Pre-installed SW, R11.6.1	\$	-
1078904666-91	OSA 5412 with High Quality Quartz - HQ+ (G.812 Type I), ageing/Day +/-1e-10 with holdover algorithm +/-2e-10 without it, Temperature stability +/-50e-10, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	4,301.88
1091904955-01	SYNCJACK OS, OSA 542X, Pre-installed SW, R11.1.1	\$	-
1078904678-01	OSA 5422 with Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	9,481.57
1091904672-01	OSA 5412/22 expansion license to 8x 1GE/10GE ports	\$	528.00
1091905931-01	OSA 5412-22/A-GNSS-INTF-DET/KEY	\$	660.00
1078904682-91	OSA 5422 with High Quality Quartz - HQ+ (G.812 Type I), ageing/Day +/-1e-10 with holdover algorithm +/-2e-10 without it, Temp. stab. +/-2e-10, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp Slot	\$	7,289.03
1047026080-02	OSA 54xx blank patch panel	\$	217.80
BC47020306-01	Latest release pre-installed SW for OSA5420/21 release 11.x.x and above, applicable on 5420 HW 1078904670-01, 1078904671-01 and 5421 HW 1078904673-01, 1078904674-01	\$	-
1091904961-01	SYNCJACK OS, OSA 5412 and OSA 5422, Pre-installed SW, R11.1.1	\$	-
1091904584-01	OSA 5405 Sync Probing profile software license, including: 1x Clock Probe, 1x PTP Probe, L2 + L3 input PTP Slave, G.8275.1 + Enterprise profile, Sync-E	\$	330.00
1091904585-01	OSA 5401 Sync Probing profile software license, including: 1x Clock Probe, 1x PTP Probe, L2 + L3 input PTP Slave, G.8275.1 + Enterprise profile, Sync-E	\$	330.00
1091905927-01	OSA 5412-2X/BROADCAST-PTP/KEY	\$	2,006.40
1078904669-01	OSA 5412 with enhanced Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, enhanced Temperature stability, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	9,837.97
1078904658-01	OSA 5412 with Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	10,062.37
1078904659-01	OSA 5412 with enhanced Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, enhanced Temperature stability, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	11,993.52
1063904505-01	OSA 5400 M.2 Timing module, including OCXO (10PPB), single band GNSS receiver, NGFF M.2 Type 3042 Key B	\$	1,422.97

1063904501-01	OSA 5400 TimeCard (TMC), with Quartz OCXO	\$	2,570.03
1063904502-01	OSA 5400 TimeCard (TMC), with HQ+	\$	3,310.57
1063904503-01	OSA 5400 TimeCard (TMC), with HQ++	\$	5,125.57
1063904504-01	OSA 5400 TimeCard (TMC), with Rubidium	\$	10,294.68
BC47020182-01	OSA 5405-MB L1+L2 Kit, including 1x OSA 5405-MB Smart Multiband L1+L2 GNSS antenna (GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS) /PRTC /PTP GM with Stratum 3E enhanced OCXO (1063904621-01) + Outdoor mounting kit for wall/pole (1047026091-01)	\$	4,691.28
1091904694-05	SYNCJACK OS, OSA 541X, PRE-INSTALLED SW, R9.5.5	\$	159.72
BC47020179-02	OSA 5405-I Kit, including OSA 5405-I Smart L1 GNSS antenna (GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS) /PRTC /PTP GM with Stratum 3E enhanced OCXO, windows mounting (1063904610-02) + wall mounitng kit (1047026090-01)	\$	2,824.80
BC47020180-02	OSA 5405-O Kit, including OSA 5405 Smart L1 GNSS antenna (GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS) /PRTC /PTP GM with Stratum 3E enhanced OCXO (1063904620-02) + Outdoor mounting kit for wall/pole mounting (1047026091-01)	\$	2,905.32
1078904656-01	OSA 5412 with High Quality Quartz - HQ+ (G.812 Type I), ageing/Day +/-1e-10 with holdover algorithm +/-2e-10 without it, Temperature stability +/-50e-10, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	7,245.48
1078904657-01	OSA 5412 with very high Quartz HQ++ (Stratum 2E G.812 Type II), ageing/Day +/-1e-11 with holdover algorithm,+/-5e-11 without it, Temperature stability +/-50e-10, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	8,537.77
1078904683-51	OSA 5422 with very high Quartz HQ++ (Strat. 2E G.812 Type II), Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots. TAA compliant.	\$	10,556.03
1078904685-01	OSA 5422 with enhanced Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, enhanced Temperature stability, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	11,412.72
1078904686-01	OSA 5422 with enhanced Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, enhanced Temperature stability, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	13,547.17
1091903021-04	SYNCJACK OS, OSA 542X, PRE-INSTALLED SW, R10.5.4	\$	159.72
1091905924-01	OSA 5412-2X/S1588-PTP/HABC	\$	920.70
1078904668-91	OSA 5412 with Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	7,405.20
1078904683-91	OSA 5422 with very high Quartz HQ++ (Strat. 2E G.812 Type II), ageing/Day +/-1e-11 with holdover algorithm,+/-5e-11 without it, Temp. stab. +/-1e-11, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	8,618.28
1078904678-91	OSA 5422 with Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	8,690.88
1091904586-01	SYNCJACK OS, OSA 5400, Probes License Key to extend to 2x Clock probe + 2x PTP clock probe	\$	462.00
1078904683-61	OSA 5422 with very high Quartz HQ++ (Strat. 2E G.812 Type II), Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots. TAA compliant.	\$	9,278.28
1091904588-01	OSA 5400/INPUT 1588-PTP	\$	462.00
1091904599-01	OSA 5400/IEEE 802.1AS - PTP GM	\$	462.00
1091904591-01	OSA 5400/SYNC NTP/KEY	\$	462.00
1063904508-01	External AC/DC power converter for OSA5400 TMC. Input 90-264VAC - IEC320-C14 AC inlet / Output 12VDCm max 3.3A - Order AC cable separately	\$	138.60
1091905929-01	OSA 5412/5422/SYNC NTP/RESPONDER	\$	1,980.00
1091903021-05	SYNCJACK OS, OSA 542X, PRE-INSTALLED SW, R10.5.5	\$	159.72
1091904953-05	SYNCJACK OS, OSA 542X, Pre-installed SW, R10.5.5	\$	-
1091904718-01	OSA 5401 SYNCJACK OS, PRE-INSTALLED SW, R10.5.1	\$	132.00
1063904610-02	OSA 5405-I Smart L1 GNSS antenna (GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS) /PRTC /PTP GM with Stratum 3E enhanced OCXO	\$	2,758.80

1063904620-02	OSA 5405 Smart L1 GNSS antenna (GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS) /PRTC /PTP GM with Stratum 3E enhanced OCXO	\$	2,781.23
1078904665-01	OSA 5412 with OCXO (Stratum 3E G.812 Type III), ageing/Day +/-5e-10, Temperature stability +/-50e-10, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	3,775.20
1078904666-01	OSA 5412 with High Quality Quartz - HQ+ (G.812 Type I), ageing/Day +/-1e-10 with holdover algorithm +/-2e-10 without it, Temperature stability +/-50e-10, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	5,212.68
1078904676-01	OSA 5422 with High Quality Quartz - HQ+ (G.812 Type I), ageing/Day +/-1e-10 with holdover algorithm +/-2e-10 without it, Temperature stability +/-2e-10, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	6,534.00
1078904677-01	OSA 5422 with very high Quartz HQ++ (Stratum 2E G.812 Type II), ageing/Day +/-1e-11 with holdover algorithm,+/-5e-11 without it, Temperature stability +/-1e-11, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	7,869.83
1078904681-01	OSA 5422 with OCXO (Stratum 3E G.812 Type III), ageing/Day +/-5e-10, Temp. stability +/-50e-10, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	6,287.17
1078904682-01	OSA 5422 with High Quality Quartz - HQ+ (G.812 Type I), ageing/Day +/-1e-10 with holdover algorithm +/-2e-10 without it, Temp. stab. +/-2e-10, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp Slot	\$	8,531.17
1078904683-01	OSA 5422 with very high Quartz HQ++ (Strat. 2E G.812 Type II), ageing/Day +/-1e-11 with holdover algorithm,+/-5e-11 without it, Temp. stab. +/-1e-11, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	9,844.57
1078904684-01	OSA 5422 with Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	11,412.72
1078904676-51	OSA 5422 with High Quality Quartz - HQ+ (G.812 Type I), GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp Slot. TAA compliant.	\$	7,260.02
1078904668-01	OSA 5412 with Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	8,203.80
1091904594-01	OSA 5400 Power profile basic system software license, including: PTP power profiles, 1x Clock Probe, 1x PTP Probe	\$	831.60
1078904685-91	OSA 5422 with enhanced Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, enhanced Temperature stability, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	10,429.32
1091904590-01	OSA 5400/BROADCAST PROFILE 1588-PTP	\$	739.20
1091904587-01	OSA 5400/SYNC 1588-PTP /UPG-KEY-32-64	\$	554.40
1078904660-92	OSA 5411 with one Quartz ( Stratum 3E G.812 Type III), ageing/Day +/-5e-10, Temperature stability +/-50e-10, integrated GNSS receiver for GPS L1, GLONASS G1, BeiDou B1, Galileo E1, pluggable PSUs	\$	2,526.48
1091904595-01	OSA 5400 Broadcast/Enterprise profile basic system software license, including: PTP Broadcast profiles, 1x Clock Probe, 1x PTP Probe, default L3 multicast	\$	831.60
1091904596-01	OSA 5400 NTP profile basic system software license, including: NTP basic key license, up to 4000 TPS	\$	554.40
1078904669-91	OSA 5412 with enhanced Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, enhanced Temperature stability, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	8,886.23
1078904667-91	OSA 5412 with very high Quartz HQ++ (Stratum 2E G.812 Type II), ageing/Day +/-1e-11 with holdover algorithm,+/-5e-11 without it, Temperature stability +/-50e-10, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	5,590.20
1078904687-01	SGPS receiver card for OSA 5422	\$	5,808.00
1063904610-92	OSA 5405-I Smart L1 GNSS antenna (GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS) /PRTC /PTP GM with Stratum 3E enhanced OCXO	\$	2,548.92
1078904686-91	OSA 5422 with enhanced Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, enhanced Temperature stability, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	12,598.08

1091904597-01	OSA 5400/TELECOM PROFILE 1588-PTP	\$	462.00
	OSA 5412 with enhanced Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, enhanced Temperature stability, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	11,056.32
1078904659-91	OSA 5400 Sync Probing profile software license, including: 1x Clock Probe, 1x PTP Probe, L2 + L3 input PTP Slave, G.8275.1 + Enterprise profile, Sync-E	\$	231.00
1091904598-01	OSA 5400/SYNC NTP/RESPONDER	\$	1,386.00
1091904592-01	SYNCJACK OS, OSA 541X, Pre-installed SW, R9.5.6	\$	-
1091904973-06	OSA 5422 with High Quality Quartz - HQ+ (G.812 Type I), GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp Slot. TAA compliant.	\$	6,160.43
1078904676-61	OSA 5400/POWER PROFILE 1588-PTP	\$	739.20
1091904589-01	OSA 5412 with Rubidium (Stratum 2E G.812 Type II), ageing/Day +/-5e-12, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	9,213.60
1078904658-91	SYNCJACK OS, OSA 5412 and OSA 5422, Pre-installed SW, R11.5.1	\$	-
1091904963-01	OSA 5412/542X/SYNC 1588-PTP /KEY-256	\$	1,999.80
1091905905-01	OSA 5412/542X/SYNC 1588-PTP /KEY-128	\$	1,199.88
1091905903-01	OSA 5412/542X/SYNC 1588-PTP /G8275-1-L2	\$	1,499.52
1091905909-01	OSA 5412/542X/SYNC 1588-PTP /KEY-512	\$	2,799.72
1091905907-01	OSA 5412/542X/SYNC 1588-PTP /PTP-ENTERPRISE/PTP-IP-MULTI	\$	2,006.40
1091905911-01	OSA 5412/542X/SYNC NTP/KEY	\$	660.00
1091905915-01	OSA 5412/542X/SYNC 1588-PTP /KEY-1024	\$	3,599.63
1091905913-01	OSA 5412/542X/ePRTC/KEY	\$	6,600.00
1091905917-01	SYNCJACK OS, OSA 5412/542X, Extended Probes License Key	\$	942.48
1091905901-01	OSA 5401 SYNCJACK OS, PRE-INSTALLED SW, R9.5.1A2	\$	132.00
1091904696-02	OSA 5405-I rack mounting kit (for single unit), for installation of OSA 5405-I in 19" or ETSI rack (must use external antenna)	\$	72.60
1013904466	OSA 5422 with OCXO (Stratum 3E G.812 Type III), ageing/Day +/-5e-10, Temp. stability +/-50e-10, GNSS receiver for L1 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots, 2x Exp. slots	\$	5,430.48
1078904675-01	Latest release pre-installed SW for OSA5412/5421, applicable on 5412/5422 HW	\$	-
BC47020305-01	OSA5412/5422/OLED Display + keypad option	\$	660.00
1078904680-01	OSA 5422 system software, including PTP Slave, Probes Count: 1x Clock Probe, 1x PTP Clock Probe, 1x PTP Network Probe.	\$	159.72
1091904899-01	SYNCJACK OS, OSA 542X, PRE-INSTALLED SW, R10.2.2	\$	159.72
1091904698-02	OSA 5405 SYNCJACK OS, PRE-INSTALLED SW, R10.5.1	\$	159.72
1091904717-01	OSA 5401 SYNCJACK OS, PRE-INSTALLED SW, R11.1.1	\$	-
1091904723-01	OSA 5405 SYNCJACK OS, PRE-INSTALLED SW, R11.1.1	\$	-
1091904724-01	OSA 5412/2X/3X/4X/SYNC 1588-PTP /UPG-KEY-64-128	\$	533.28
1091904893-01	OSA 5412/2X/3X/4X/SYNC 1588-PTP /UPG-KEY-64-256	\$	1,333.20
1091904894-01	OSA 5412/2X/3X/4X/SYNC 1588-PTP /UPG-KEY-64-512	\$	2,133.12
1091904895-01	OSA 5412/2X/3X/4X/SYNC 1588-PTP /UPG-KEY-64-1024	\$	2,933.03
1091904896-01	OSA 5412 system software, including PTP Slave, Probes Count: 1x Clock Probe, 1x PTP Clock Probe, 1x PTP Network Probe.	\$	159.72
1091904918-01	OSA 541x system software including PTP Slave, Probes Count: 1x Clock Probe, 1x PTP Clock Probe, 1x PTP Network Probe.	\$	159.72
1091904921-01	SYNCJACK OS, OSA 5412 and OSA 5422, Pre-installed SW, R10.6.1	\$	-
1091904954-01	RTU to use one Port of module OSA 5412/5422 with 10GB support with SFP+	\$	660.00
1091904956-01	OSA 5401/IEEE 802.1AS - PTP GM	\$	660.00
1091904958-01	OSA 5405/IEEE 802.1AS - PTP GM	\$	660.00
1091904959-01	OSA 542x Low Phase Noise output, providing 4x 10MHz low phase noise output, SMA, 50 ohms	\$	5,517.60
1063904708-01			

1063904709-01	OSA 542x Ultra Low Phase Noise output, providing 4x 10MHz low phase noise output, SMA, 50 ohms	\$	11,035.20
1091904565-01	OSA 5401/POWER PROFILE 1588-PTP	\$	1,056.00
1091904566-01	OSA 5405/POWER PROFILE 1588-PTP	\$	1,056.00
1091904567-01	OSA 5412/542x/POWER PROFILE 1588-PTP	\$	1,452.00
1091904564-01	OSA 5401/INPUT 1588-PTP	\$	660.00
1091904568-01	OSA 5401/BROADCAST PROFILE 1588-PTP	\$	1,056.00
1063904707-01	OSA 542x Time Code Module, with 1x IRIG-B Input AM/DCLS (BNC), 1x optical out (ST), 1x RS422 (RJ11), 1x alarm/pulse relay, 10x IRIG outputs on high density connector	\$	3,136.32
1047026092-01	Time Code Outputs panel for TCM module, including 6x BNC for 5V DCLS / AM outputs, 2x BNC for 5V / 10V DCLS outputs, 2x optical ST outputs.	\$	493.68
1091904569-01	OSA 5405/BROADCAST PROFILE 1588-PTP	\$	1,056.00
1091903022-01	OSA 5401 SYNCJACK OS, PRE-INSTALLED SW, R10.1.1	\$	132.00
1091903023-01	OSA 5405 SYNCJACK OS, PRE-INSTALLED SW, R10.1.1	\$	159.72
1091904570-01	OSA 5405/SYNC NTP/KEY	\$	660.00
1078904651-92	OSA 5410 with one Quartz (Stratum 3E G.812 Type III), ageing/Day +/-5e-10, Temperature stability +/-50e-10, with integrated -48VDC PSU and GNSS receiver for GPS L1, GLONASS G1, BeiDou B1, Galileo E1	\$	1,742.40
1091904730-01	SYNCJACK OS, OSA 5405, Pre-installed SW, R11.7.1	\$	-
1091904734-01	OSA 5405 SYNCJACK OS, PRE-INSTALLED SW, R12.1.1	\$	-
1091903021-02	SYNCJACK OS, OSA 542X, PRE-INSTALLED SW, R10.5.2	\$	159.72
BC47020501-01	SoftSync 12 months subscription client license, including Service for Qty 1-99	\$	100.05
BC47020502-01	SoftSync 12 months subscription client license, including Service for Qty 100-499	\$	74.13
BC47020503-01	SoftSync 12 months subscription client license, including Service for Qty 500-999	\$	65.38
BC47020504-01	SoftSync 12 months subscription client license, including Service for Qty 1000-1999	\$	52.92
1091903021-03	SYNCJACK OS, OSA 542X, PRE-INSTALLED SW, R10.5.3	\$	159.72
1091904574-01	OSA 5405 Telecom profile basic system software license, including: 1x Clock Probe, 1x PTP Probe, layer 2 default profiles, G.8275.1 profile, enterprise profile, 8x IP unicast PTP Slaves G.8265.1 / G.8275.2, Sync-E	\$	792.02
1091904571-01	OSA 5401/SYNC NTP/KEY	\$	660.00
1078904656-91	OSA 5412 with High Quality Quartz - HQ+ (G.812 Type I), ageing/Day +/-1e-10 with holdover algorithm +/-2e-10 without it, Temperature stability +/-50e-10, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	6,090.48
BC47020301-01	Latest release pre-installed SW for OSA5405, applicable on 5405 Indoor HW BC47020179-01 (1063904610-01) and 5405 Outdoor BC47020180-01 (1063904620-01)	\$	159.72
BC47020302-01	Latest release pre-installed SW + Base license for OSA541x, applicable on 5410 HW 1078904650-02, 1078904651-02, 1078904651-92, 1078904652-02 and 5411 HW 1078904660-02, 1078904660-92, 1078904664-01, 1078904661-02	\$	159.72
BC47020300-01	Latest release pre-installed SW for OSA5401, applicable on 5401 HW 1063904601-02	\$	132.00
1078904657-91	OSA 5412 with very high Quartz HQ++ (Stratum 2E G.812 Type II), ageing/Day +/-1e-11 with holdover algorithm, +/-5e-11 without it, Temperature stability +/-50e-10, Multiband GNSS receiver for L1+L2 (GPS, GLONASS, BeiDou, Galileo), 2x PSU slots	\$	7,384.08
1091904897-01	OSA 5412/542X/SYNC 1588-PTP /KEY-64	\$	666.60
1091904578-01	OSA 5401 Telecom profile basic system software license, including: 1x Clock Probe, 1x PTP Probe, layer 2 default profiles, G.8275.1 profile, enterprise profile, 32x IP unicast PTP Slaves G.8265.1 / G.8275.2, Sync-E	\$	792.02
BC47020193-01	OSA 5420, GNSS/PRTC/PTP: Equipped with Quartz HQ+ and dual pluggable DC PSUs, Pre-installed Software 10.2.1, 2x PWR CBL, NMCL, SYSCL	\$	6,343.68
1047024010-01	OSA 3350 Telecom Module, for ENC management and Telecom frequency outputs	\$	2,566.20

BC47020155-01	OSA 3350, Optical Cesium Bundle, ePRC+, Cesium Tube 10 years. Must order 2 PSU's, power cables and rack mounting hardware kit if required.. MGMT SW download from customer portal.	\$ 221,788.30
1047017212-02	OSA 3030B EUDICS format Cesium clock/ 5-10 MHz low noise output/ European Long life cesium tube/ PSU input 20-60VDC / 3x Relay alarms contacts / RS232 local mgnt port/ Status alarm LED, Stability 5xE-11xTau-1/2 / Accuracy 1 x E-12	\$ 126,336.00
1047020033-02	OSA 3030B EUDICS format Cesium clock/ 5-10 MHz low noise output / European Long life cesium tube/ PSU input 20-60VDC / 3x Relay alarms contacts / RS232 local mgnt port/ Status alarm LED, Stability 2.7xE-11xTau-1/2 / Accuracy 1 x E-12	\$ 126,336.00
1047020054-01	OSA 3230B Cesium Clock - G.811 / 19" 3U subrack, Dual DC power incl. / G.811 long life Cesium module (1x10-12), equipped as follows:	\$ 114,492.00
1047020063-01	OSA 3235B Cesium Clock / 19" 3U subrack, 110-240VAC + 24-60VDC power input / Cesium module (1x10-12) with Allan deviation: 2.7x10-11 T-1/2 / 4x Telecom BNC outputs, equipped as follows:	\$ 126,336.00
1047020059-01	OSA 3230B Cesium Clock - G.811 / ETSI 4U subrack, Dual DC power incl. / G.811 long life Cesium module (1x10-12) / 4x Telecom BNC outputs, equipped as follows:	\$ 114,492.00
1047020051-01	OSA 3230B Cesium Clock - G.811 / 19" 3U subrack, Dual DC power incl. / G.811 long life Cesium module (1x10-12) / 4x Telecom BNC outputs, equipped as follows:	\$ 114,492.00
BC47020151-01	OSA 3300 HP, Optical Cesium Bundle High Performance, including Cesium Tube HP 10 years. Must order 2 PSU's, power cables and Battery option separately. MGMT SW download from customer portal.	\$ 344,034.70
1047024002-01	Power Supply Unit -48VDC, 90W	\$ 1,362.06
1047020201-01	OSA 33xx Battery filler plate	\$ 407.96
1047024001-01	PSU Power Supply Unit AC , 90W	\$ 1,559.46
1047020200-01	OSA 3300 Battery	\$ 4,935.00
1047024003-01	Power Supply Unit 24VDC , 90W	\$ 1,362.06
1047020167-01	OSA 3230B Cesium Clock - G.811 / 19" 3U subrack, Dual DC power incl. / G.811 long life Cesium module (1x10-12), OEM version equipped as follows:	\$ 93,733.75
1047020051-11	OSA 3230B ePRC Cesium Clock - G.811.1 / 19" 3U subrack, Dual DC power incl. / long life Cesium module (1x10-12) / 4x Telecom BNC outputs, equipped as follows:	\$ 126,015.23
1047020052-11	OSA 3230B ePRC Cesium Clock - G.811.1 / 19" 3U subrack, Dual DC power incl. / long life Cesium module (1x10-12) / 4x Telecom DB9 outputs, equipped as follows:	\$ 126,015.23
1047020056-11	OSA 3230B ePRC Cesium Clock - G.811.1 / 19" 3U subrack, 110-240VAC + 24-60VDC power input / long life Cesium module (1x10-12) / 4x Telecom DB9 outputs, equipped as follows:	\$ 126,791.67
1047020055-11	OSA 3230B ePRC Cesium Clock - G.811.1 / 19" 3U subrack, 110-240VAC + 24-60VDC power input / long life Cesium module (1x10-12) / 4x Telecom BNC outputs, equipped as follows:	\$ 126,791.67
1047020057-11	OSA 3230B ePRC Cesium Clock - G.811.1 / 19" 3U subrack, 110-240VAC + 24-60VDC power input / long life Cesium module (1x10-12) / 4x Telecom mixed BNC/DB9 outputs, equipped as follows:	\$ 126,791.67
1047020053-11	OSA 3230B ePRC Cesium Clock - G.811.1 / 19" 3U subrack, Dual DC power incl. / long life Cesium module (1x10-12) / 4x Telecom mixed BNC/DB9 outputs, equipped as follows:	\$ 126,015.23
1047020054-11	OSA 3230B ePRC Cesium Clock - G.811.1 / 19" 3U subrack, Dual DC power incl. / long life Cesium module (1x10-12), equipped as follows:	\$ 123,343.75
1047020058-11	OSA 3230B ePRC Cesium Clock - G.811.1 / 19" 3U subrack, 110-240VAC + 24-60VDC power input / long life Cesium module (1x10-12) , equipped as follows:	\$ 123,343.75
1047020059-11	OSA 3230B ePRC Cesium Clock - G.811.1 / ETSI 4U subrack, Dual DC power incl. / long life Cesium module (1x10-12) / 4x Telecom BNC outputs, equipped as follows:	\$ 125,378.61
1047020060-11	OSA 3230B ePRC Cesium Clock - G.811.1 / ETSI 4U subrack, Dual DC power incl. / long life Cesium module (1x10-12) / 4x Telecom DB9 outputs, equipped as follows:	\$ 125,378.61
1047020061-11	OSA 3230B ePRC Cesium Clock - G.811.1 / ETSI 4U subrack, Dual DC power incl. / long life Cesium module (1x10-12) / 4x Telecom mixed BNC/DB9 outputs, equipped as follows:	\$ 125,378.61



1047020062-11	OSA 3230B ePRC Cesium Clock - G.811.1 / ETSI 4U subrack, Dual DC power incl. / long life Cesium module (1x10-12), equipped as follows:	\$ 122,708.78
1047020052-01	OSA 3230B Cesium Clock - G.811 / 19" 3U subrack, Dual DC power incl. / G.811 long life Cesium module (1x10-12) / 4x Telecom DB9 outputs, equipped as follows:	\$ 114,492.00
1047020053-01	OSA 3230B Cesium Clock - G.811 / 19" 3U subrack, Dual DC power incl. / G.811 long life Cesium module (1x10-12) / 4x Telecom mixed BNC/DB9 outputs, equipped as follows:	\$ 114,492.00
1047020056-01	OSA 3230B Cesium Clock - G.811 / 19" 3U subrack, 110-240VAC + 24-60VDC power input / G.811 long life Cesium module (1x10-12) / 4x Telecom DB9 outputs, equipped as follows:	\$ 114,492.00
1047020058-01	OSA 3230B Cesium Clock - G.811 / 19" 3U subrack, 110-240VAC + 24-60VDC power input / G.811 long life Cesium module (1x10-12) , equipped as follows:	\$ 114,492.00
1047020055-01	OSA 3230B Cesium Clock - G.811 / 19" 3U subrack, 110-240VAC + 24-60VDC power input / G.811 long life Cesium module (1x10-12) / 4x Telecom BNC outputs, equipped as follows:	\$ 114,492.00
1047020057-01	OSA 3230B Cesium Clock - G.811 / 19" 3U subrack, 110-240VAC + 24-60VDC power input / G.811 long life Cesium module (1x10-12) / 4x Telecom mixed BNC/DB9 outputs, equipped as follows:	\$ 114,492.00
1047020061-01	OSA 3230B Cesium Clock - G.811 / ETSI 4U subrack, Dual DC power incl. / G.811 long life Cesium module (1x10-12) / 4x Telecom mixed BNC/DB9 outputs, equipped as follows:	\$ 114,492.00
1047020060-01	OSA 3230B Cesium Clock - G.811 / ETSI 4U subrack, Dual DC power incl. / G.811 long life Cesium module (1x10-12) / 4x Telecom DB9 outputs, equipped as follows:	\$ 114,492.00
1047020062-01	OSA 3230B Cesium Clock - G.811 / ETSI 4U subrack, Dual DC power incl. / G.811 long life Cesium module (1x10-12), equipped as follows:	\$ 114,492.00
1047020064-01	OSA 3235B Cesium Clock / 19" 3U subrack, 110-240VAC + 24-60VDC power input / Cesium module (1x10-12) with Allan deviation: 2.7x10-11 T-1/2 / 4x Telecom DB9 outputs, equipped as follows:	\$ 126,336.00
1047020066-01	OSA 3235B Cesium Clock / 19" 3U subrack, 110-240VAC + 24-60VDC power input / Cesium module (1x10-12) with Allan deviation: 2.7x10-11 T-1/2, equipped as follows:	\$ 126,336.00
1047020065-01	OSA 3235B Cesium Clock / 19" 3U subrack, 110-240VAC + 24-60VDC power input / Cesium module (1x10-12) with Allan deviation: 2.7x10-11 T-1/2 / 4x Telecom BNC/DB9 mixed outputs, as follows:	\$ 126,336.00
1047020067-01	OSA 3235B Cesium Clock / 19" 3U subrack, 110-240VAC + 24-60VDC power input / Internal battery / Cesium module (1x10-12) with Allan deviation: 2.7x10-11 T-1/2 / 4x Telecom BNC outputs, equipped as follows:	\$ 126,336.00
1047020068-01	OSA 3235B Cesium Clock / 19" 3U subrack, 110-240VAC + 24-60VDC power input / Internal battery / Cesium module (1x10-12) with Allan deviation: 2.7x10-11 T-1/2 / 4x Telecom DB9 outputs, equipped as follows:	\$ 126,336.00
1047020070-01	OSA 3235B Cesium Clock / 19" 3U subrack, 110-240VAC + 24-60VDC power input / Internal battery / Cesium module (1x10-12) with Allan deviation: 2.7x10-11 T-1/2, equipped as follows:	\$ 126,336.00
1047020069-01	OSA 3235B Cesium Clock / 19" 3U subrack, 110-240VAC + 24-60VDC power input / Internal battery / Cesium module (1x10-12) with Allan deviation: 2.7x10-11 T-1/2 / 4x Telecom BNC/DB9 mixed outputs, equipped as follows:	\$ 126,336.00
1047020159-01	OSA 3350 Software Release 4.5.1 preinstalled, has to be ordered once per purchase order	\$ -
1047020219-01	19" to 21" mounting extension kit for OSA33XX / 3U height	\$ 329.00
1047020202-01	OSA 3350 Battery filler plate	\$ 1,974.00
1091904974-01	OSA 3300 system software license	\$ 296.10
BC47020210-01	OSA 3230B ePRC Cesium clock G.811.1 - ANSI 19" 3U subrack, long life 8 years cesium module (1x10-12), dual 48VDC power supply, equipped with 4x telecom BNC outputs, including OSA543x/4x ePRTC license	\$ 135,415.23
BC47020211-01	OSA 3230B ePRC Cesium clock G.811.1 - ETSI 4U subrack, long life 8 years cesium module (1x10-12), dual 48VDC power supply, equipped with 4x telecom BNC outputs, including OSA543x/4x ePRTC license	\$ 134,778.61

1047020127-01	OSA 3300 Software Release 3.2.1 preinstalled, has to be ordered once per purchase order	\$	-
1047020217-01	Guide Rail kit for 4-post racks 570 to 800mm post distance - To be used for installing OSA33XX in a rack	\$	493.50
1091904975-01	OSA 3350 system software license	\$	296.10
BC47020212-01	OSA 3350 ePRTC+ Cesium clock G.811.1 - ANSI 19" 3U subrack, long life 10 years cesium module, dual 48VDC power supply with power cords, including OSA543x/4x ePRTC license	\$	234,802.29
1047020178-01	OSA 3300 Software Release 4.6.1 preinstalled, has to be ordered once per shelf	\$	-
1047020179-01	OSA 3350 Software Release 4.6.1 preinstalled, has to be ordered once per shelf	\$	-
BC47020104-01	Slim Line EMP arrestor (GDT technology 350uJ) 1047020133-01 with mounting bracket, including TNC-M/TNC-M adapter 1047014321-01	\$	225.72
1047020214-01	Power Over Ethernet injector, 48-57VDC input on terminal block, 2x 10/100/1000 BaseT RJ45, max 30W output power (as per IEEE 802.3af / IEEE 802.3at)	\$	167.63
BC47020097-02	GNSS Roof Antenna Kit for OSA 54xx including: GLONASS + GPS + GALILEO + BEIDOU 40dB cost effective antenna, 10m of antenna cable, Slim line EMP Protection Kit with, 2m TNC-f to SMA-m interconnecting cable	\$	460.68
1047027423-01	Interconnecting cable 2m long, with TNC-f / SMA-m angled connectors (LSZH)	\$	56.77
1047024187-01	Lightning arrestor and fine protector (hybrid technology), with TNC-f connector (without cable)	\$	356.40
1047027425-01	SMA-m to BNC-f adapter cable with light weight BNC connector. RG316 (ZH), 15cm	\$	58.08
1047027424-01	TNC-Male connector 50 ohms, crimp, for cable LMR/HPC-400 or equivalent	\$	26.40
1047020210-01	Power Over Ethernet injector 33.6W as per IEEE 802.3af / IEEE 802.3at. 90-264VAC input (IEC 320 C14), 56VDC up to 600mA on 10/100/1000 BaseT RJ45	\$	129.37
1047020133-01	Slim Line EMP arrestor type GDT, with TNC-f connector (without cables)	\$	174.23
1047020135-01	20cm RP-MMCX Male to BNC Male Adaptor cable for 540x output	\$	36.97
1047020134-01	GNSS L1 (GPS+GLONASS+GALILEO+BeiDou) cone antenna 40dB, including: antenna TNC-f with pipe mounting adaptor (without cable)	\$	363.00
1047020211-01	10/100/1000 Mbps Indoor lightning arrestor for RJ45, 8kA / 16kV	\$	129.37
1047016718-01	19" mounting kit (to build ETSI 4Usubrack into 19" cabinet)	\$	170.48
1047013396-01	Mounting brackets 19" to 23", 3U high	\$	172.92
1047014157-01	Adapter straight BNC-m / TNC-f	\$	51.48
1047005318-01	120 ohms/75 ohms Balun with Krone Connector for 120 ohms end, BNC Conn. for 75 ohms end	\$	51.48
1047014187-01	Lightning Protection Kit for GNSS including Lightning Protector, capsule, 10 m of LMR/HPC-400 interconnecting cable	\$	555.72
1047014324-01	10m High Performance Coaxial antenna cable - LMR/HPC-400, TNC-m connectors, zero-halogen	\$	100.32
1047014321-01	Adapter TNC-m/TNC-m straight	\$	51.48
1047014325-01	20m High Performance Coaxial antenna cable - LMR/HPC-400, TNC-m connectors, zero-halogen	\$	142.57
1047014335-01	GNSS Line Amplifier TNC (with adapter) Includes 1x TNC-m/TNC-m adapter	\$	1,009.80
1047014327-01	120m High Performance Coaxial antenna cable - LMR/HPC-400, TNC-m connectors, zero-halogen	\$	545.17
1047014768-01	19" 6U to ETSI adapter (pair)	\$	203.28
1047014875-01	Cable RS-232, 2 meters, LapLink type	\$	27.72
1047015112-01	Interconnecting cable - 25 conn., 3m long, for OSA 5548C Expansion shelf (2 cables per expansion shelf required for redundancy)	\$	415.80
1047015367-01	Adapter TNC-f/TNC-f straight	\$	51.48
1047015494-01	Interconnecting cable - RG58 2m with 2x BNC-m connector	\$	71.28
1047012328-01	Adapter BNC-f/TNC-m	\$	51.48

1047012326-01	GNSS Line Amplifier (without adapters) TNC female connectors on both ends	\$	958.32
1047015901-01	150m High Performance Coaxial antenna cable - LMR/HPC-400, TNC-m connectors, zero-halogen	\$	696.97
1047016266-01	Adapter N-m/TNC-f straight	\$	51.48
1047016746-01	Technical doc OSA3230B on CD-ROM // DWG 990.500.084	\$	239.78
1047016713-01	Gigabit Ethernet Electrical SFP Transceiver. , Up to 1.25 GB/s bi-directional data links, 10/100/1000Base-T operation, Compact RJ-45 connector, Applications: 1.25 Gigabit Ethernet over Cat-5 cable	\$	157.08
1047017097-01	23" mounting extension kit for 5548C 3U including pair of 3U bracket and accessories // A013397 // CLEI: D0MYABRJRA	\$	244.20
BC47014188-01	GNSS cable kit LMR/HPC-400 120m Composed by: 1x 1047014327 120m of LMR/HPC-400 cable, 1x 1047014335 20dB GNSS Line Amplifier, with 1x TNC/TNC adapter	\$	1,554.97
1047014326-01	60m High Performance Coaxial antenna cable - LMR/HPC-400, TNC-m connectors, zero-halogen	\$	289.08
1047020002-01	Cables and connectors Accessories kit for OSA 54XX CLK/1PPS/GPS/BITS I/F	\$	246.83
1047017421-01	Interconnecting cable 2m long, with TNC-f / SMA-m connectors	\$	56.77
1047020097-01	GNSS antenna splitter 1:2, TNC-F in, 2x GNSS TNC-F out	\$	798.60
1047010083-01	Antenna Mast Mounting Support	\$	72.60
1047012876-01	Antenna Mast Mounting Clamp	\$	10.57
1047023806-01	GNSS (GPS+GLONASS) Antenna 26dB magnetic support / 2.6-6VDC / 5m of cable / SMA-m connector	\$	283.80
BC47020098-01	GNSS Roof Antenna Kit for OSA 54xx including: 1047020134 40dB GPS + GLONASS + GALILEO cone antenna, with mounting kit, EMP Protection Kit with 10m connection cable, 2m TNC-f to SMA-m interconnecting cable	\$	788.03
BC47020103-01	Lightning arrestor and fine protector (hybrid technology - 6uJ) 1047024187-01 with mounting bracket, including 10m of LMR/HPC-400 cable 1047014324-01	\$	456.72
BC47020102-01	GNSS (GPS+GLONASS+GALILEO+BEIDOU) 40dB Antenna, including mounting kit (without cable)	\$	456.72
1047020098-01	GNSS antenna splitter 1:4, TNC-F in, 4x GNSS TNC-F out	\$	1,234.20
1047020213-01	GNSS (GPS + Glonass + Galileo + Beidou / L1 + L2 + L5) 2-ports Smart splitter 1:2, TNC-F connectors	\$	972.83
1047023807-01	30m High Performance Coaxial antenna cable - LMR/HPC-400, TNC-m connectors, zero-halogen	\$	174.23
1047023808-01	90m High Performance Coaxial antenna cable - LMR/HPC-400, TNC-m connectors, zero-halogen	\$	414.48
BC47015905-01	GNSS cable kit - LMR/HPC-400 150m Composed by: 1x 1047015901 150m of LMR/HPC-400 cable, 1x 1047014335 20dB GNSS Line Amplifier with 1x TNC/TNC adapter	\$	1,706.77
1047020140-02	GNSS (GPS+GLONASS+Galileo+Beidou) 40dB cost effective antenna kit, including: 40dB antenna, 10m cable with TNC-m connector, L-mounting bracket (do not include mounting screws or clamps)	\$	174.23
1047020171-02	GNSS (GPS+GLONASS+Galileo+Beidou) 40dB cost effective antenna, with TNC-f connector.	\$	80.52
1047010083-02	Antenna Mast Mounting Support	\$	72.60
1047020101-01	Shipping Box for OSA 33xx family cesium products, used for RMA shipments	\$	900.23
BC47020220-01	Multiband L1/L2/L5 37dB GNSS antenna kit, including : Multiband high precision GNSS antenna 37dB (1047020173-01), pipe mounting adaptor (1013904036), 25cm POM mast (1047010083-02), 2x clamps (1047012876-01)	\$	1,500.83
1047020218-01	GNSS (GPS + Glonass + Galileo + Beidou / L1 + L2 + L5) 4-ports Smart splitter 1:4, TNC-F connectors	\$	1,408.43
1036005408	Octopus CC fanout cable, 90 cm, for 10x CC outputs (RJ-45)	\$	327.37
1047020177-01	GNSS MB Antenna L1/L2/L5 (GPS+GLONASS+Galileo+Beidou) 38dB - for Access and Edge Sync, with TNC-f connector.	\$	649.00

BC47020224-01	Multiband L1/L2/L5 38dB GNSS Access and Edge Sync antenna kit, including : Multiband GNSS antenna 38dB (1047020177-01), pipe mounting adaptor (1013904036), 25cm POM mast (1047010083-02), 2x clamps (1047012876-01)	\$	806.08
BC47020225-01	Multiband L1/L2/L5 38dB GNSS Access and Edge Sync antenna kit, including : Multiband GNSS antenna 38dB (1047020177-01), L-mounting bracket (do not include mounting screws or clamps)	\$	697.83
1036005405	High Density Cable 100 cm, LSZH	\$	188.77
1047020212-02	10/100/1000 Mbps Outdoor lightning arrestor for RJ45, 8kA / 16kV, IP67	\$	170.28
1047025914-01	1U Universal Management Interface (UMI), allows remote monitoring of OSA 3230B 3x electrical alarms with SNMP traps over TCP/IP.	\$	2,904.00
1047026017-01	Alarm management cable for OSA3030 / OSA323x, 2m long	\$	72.60
1047020099-01	GNSS antenna splitter 1:8, TNC-F in, 8x GNSS TNC-F out	\$	1,960.20
BC47020223-01	Anti-jamming L1 GNSS antenna kit, including: Anti-jamming antenna (1047027431-01) with L-mounting bracket	\$	868.57
1047027431-01	GNSS AJ (Anti-Jamming) L1 antenna (GPS+GLONASS+GALILEO+BeiDou), 40dB, including: AJ antenna with TNC-f connector (without cable)	\$	819.72
BC47020222-01	Anti-jamming L1 GNSS antenna kit, including: Anti-jamming antenna (1047027431-01), pipe mounting adaptor (1013904036), 25cm POM mast (1047010083-02), 2x clamps (1047012876-01)	\$	976.80
1047014968-02	Interconnecting cable - LMR240 - LSZH - 2m with 2x TNC-m connectors	\$	109.57
1047020300-01	90cm / 3 feet Composite Clock cable, for 10 outputs CC.	\$	260.03
BC47020125-01	250m LMR/HPC-400 cable kit, antenna & EMP for OSA54xx	\$	2,982.10
1047020001-01	E1/T1 CAT6 Crossover Cable LSZH, 3m long - 2x RJ48C connector	\$	51.48
1047027427-02	Multiband GNSS 40dB Line Amplifier, TNC female connectors on both ends.	\$	797.50
1047020186-01	Adapter straight N-f / TNC-m	\$	51.48
1047020303-01	300cm / 10 feet Composite Clock cable, for 10 outputs CC.	\$	312.83
1047027422-01	2m LMR240 high performances low reflection 50 ohms interconnecting cable, SMA-M (angled) to BNC-M	\$	114.83
1047027423-02	Interconnecting cable 2m long, LMR240, with TNC-f / SMA-m angled connectors (LSZH)	\$	77.88
1047027429-01	Multiband GNSS 20dB Line Amplifier, TNC male / TNC female connectors	\$	1,024.32
BC47020105-01	Slim Line EMP arrestor (GDT technology 350uJ) 1047020133-01 with mounting bracket, including 10m of LMR/HPC-400 cable 1047014324-01	\$	274.57
BC47020106-01	GNSS (GPS+GLONASS+Galileo+Beidou) 40dB cost effective antenna kit, including: 40dB antenna, L-mounting bracket (do not include mounting screws or clamps)	\$	129.37
BC47020107-01	GNSS (GPS+GLONASS+GALILEO+BEIDOU) 40dB cost effective antenna kit, including: 40dB antenna (1047020171-02) with pipe mounting kit (without cable)	\$	237.60
BC47020221-01	Multiband L1/L2/L5 37dB GNSS antenna kit, including : Multiband high precision GNSS antenna 37dB (1047020173-01), L-mounting bracket (do not include mounting screws or clamps)	\$	1,392.60
1047017421-02	Interconnecting cable 2m long, LMR240, with TNC-f / SMA-m connectors (LSZH)	\$	77.88
1047020170-02	GNSS L1 (GPS+GLONASS+GALILEO+BeiDou) cone antenna 26dB, including: antenna TNC-f with pipe mounting adaptor (without cable).	\$	304.92
1036005407	IRIG Fanout cable, 50 cm, for 10x IRIG outputs (BNC)	\$	327.37
1036005406	Time Code High Density Cable, 100 cm	\$	327.37
1047020173-01	Multiband high precision GNSS antenna (GPS L1/L2/L5 + GLONASS L1/L2 + Galileo E1/E5 + Beidou B1/B2 ) 37dB, TNC-f connector	\$	1,343.77
1047027430-01	RJ48 TOD+BITS splitter/combiner cable, used to split signals TOD+PPS into two separate RJ45 connectors, TOD+PPS and BITS IN+OUT	\$	22.45
1047020187-01	Adapter TNC-m/TNC-f 90-degree angled	\$	51.48
BC47020186-01	Multiband GNSS 18dB Line Amplifier, with TNC-M / TNC-M adaptor	\$	704.88
BC47020187-01	Multiband GNSS 40dB Line Amplifier, with TNC-M / TNC-M adaptor	\$	848.98

1047021001-01	SyncView Plus Class 1 connection fee	\$	3,376.57
1047021005-01	SyncView Plus Class 5 connection fee	\$	1,818.97
1047021003-01	SyncView Plus Class 3 connection fee	\$	2,455.20
1047021002-01	SyncView Plus Class 2 connection fee	\$	3,116.52
1047021004-01	SyncView Plus Class 4 connection fee	\$	1,325.28
1047021006-01	SyncView Plus Class 6 connection fee	\$	455.40
1047021016-01	SyncView Plus License file delivered via Customer-portal (only electronically)	\$	-
1091904941-01	RTU to duplicate licenses on second OSA 54CR CSM.	\$	3,599.63
1091904951-01	SYNCJACK OS, OSA 543X and OSA 544X, Pre-installed SW, R10.2.1	\$	-
1063904706-01	4x 1GB/10GB LC card (Line card) for OSA 543x / 544x, providing 4-ports 1GE/10GE fiber for SFP/SFP+ optics	\$	2,032.80
1091904940-01	RTU to use one Port of module OSA 54CR with 10GB support with SFP+	\$	660.00
1078904693-01	OSA 5430 1U 19" shelf, including grounding kit and blank plates.	\$	1,306.80
1063904704-01	AUX card (Auxiliary card) for OSA 543x / 544x, providing 1x BITS in/out, 2x Clk in/out, 1x PPS in/out, 1x ToD+PPS out, 1x DCN RJ-45 (management)	\$	871.20
1063904705-01	16x BITS LC card (Line card) for OSA 543x / 544x, providing 16xBITS Output	\$	2,178.00
1091904920-01	OSA 543x / 544x system software, including PTP Slave, Probes Count: 1x Clock Probe, 1x PTP Clock Probe, 1x PTP Network Probe.	\$	198.00
1091904952-02	SYNCJACK OS, OSA 543X and OSA 544X, Pre-installed SW, R10.5.2	\$	-
1091904952-03	SYNCJACK OS, OSA 543X and OSA 544X, Pre-installed SW, R10.5.3	\$	-
1091904962-02	SYNCJACK OS, OSA 543X and OSA 544X, Pre-installed SW, R11.1.2	\$	-
1091904952-06	SYNCJACK OS, OSA 543X and OSA 544X, Pre-installed SW, R10.5.6	\$	-
1091905930-01	OSA 543X/4X/SYNC NTP/RESPONDER	\$	1,980.00
1063904701-02	CSM card with Quartz HQ++, Ageing/Day +/-5e-11 , Temperature stability +/-1e-11, with 1x GNSS input, 4x NTP/PTP Ethernet I/F , 1x RS-232 on RJ48 connector.	\$	6,243.60
1091905932-01	OSA 543X/4X/A-GNSS-INTF-DET/KEY	\$	990.00
1063904700-02	CSM card with Rubidium, Ageing/Day +/-5e-12, with 1x GNSS input, 4x NTP/PTP Ethernet I/F , 1x RS-232 on RJ48 connector.	\$	7,986.00
1063904702-02	CSM card with Quartz HQ+, Ageing/Day +/-1e-10 with holdover algorithm +/-3e-10 without it, Temperature stability +/-2e-10, with 1x GNSS input, 4x NTP/PTP Ethernet I/F , 1x RS-232 on RJ48 connector.	\$	4,646.40
1091904919-01	OSA 543X/4X/SYNC 1588-PTP /UPG-KEY-1024-1536	\$	799.92
1091905934-01	OSA 543X/4X/SYNC 1588-PTP /KEY-1536	\$	4,399.57
1063904703-02	CSM card with Quartz, Ageing/Day +/-5e-10, Temperature stability +/-50e-10, with 1x GNSS input, 4x NTP/PTP Ethernet I/F , 1x RS-232 on RJ48 connector.	\$	3,775.20
1078904694-02	OSA 5440 3U 19" shelf, including 19" mounting kit, grounding kit, Mylar top cover (to be used with fan tray) and blank plates.	\$	4,065.60
1063904705-02	16x BITS LC card (Line card) for OSA 543x / 544x, providing 16xBITS Output with enhanced protection	\$	2,395.80
1091904952-05	SYNCJACK OS, OSA 543X and OSA 544X, Pre-installed SW, R10.5.5	\$	-
1091905926-01	Feature key license to use high accuracy G.8275.1/G.8273.2 PTP BC type C/D feature on 543x/544x	\$	920.70
1091905928-01	OSA 543X-4X/BROADCAST-PTP/KEY	\$	2,006.40
1047020180-04	OSA 5335 Software Release 2.5.4 preinstalled, has to be ordered once per purchase order	\$	-
1047020181-04	CD/DVD with OSA 5335 firmware and user documentation for Rel. 2.5.4	\$	116.17
1063904713-01	CSM card with enhanced Rubidium, Ageing/Day +/-5e-12 with enhanced Temperature stability, with 1x GNSS input, 4x NTP/PTP Ethernet I/F , 1x RS-232 on RJ48 connector.	\$	9,583.20
1091904952-04	SYNCJACK OS, OSA 543X and OSA 544X, Pre-installed SW, R10.5.4	\$	-
1063904711-02	10 x 64kb/s CC card (Line card) for OSA 543x / 544x, providing 10 x 64kb/s CC-JCC Output + 1x CC sync input/output	\$	2,468.40

1091905908-01	OSA 543X/4X/SYNC 1588-PTP /KEY-512	\$	2,799.72
1091905912-01	OSA 543X/4X/SYNC 1588-PTP /PTP-ENTERPRISE/PTP-IP-MULTI	\$	2,006.40
1091905916-01	OSA 543X/4X/SYNC NTP/KEY	\$	660.00
1063904710-01	Multi-band GNSS receiver card for OSA 543x / 544x	\$	2,904.00
1047026093-01	1U 19"/23" output patch panel, for up to 40x CC outputs protected or unprotected.	\$	545.17
1063904711-01	10 x 64kb/s CC card (Line card) for OSA 543x / 544x, providing 10 x 64kb/s CC Output + 1x CC sync input/output	\$	2,468.40
1091904951-03	SYNCJACK OS, OSA 543X and OSA 544X, Pre-installed SW, R10.2.3	\$	-
1013904458	Set of mounting kits for 3RU and 1RU shelves, including ETSI and 23" mounting, standard and extended mounting	\$	166.32
1091905904-01	OSA 543X/4X/SYNC 1588-PTP /KEY-128	\$	1,199.88
1091905906-01	OSA 543X/4X/SYNC 1588-PTP /KEY-256	\$	1,999.80
1091905902-01	SYNCJACK OS, OSA 543X / 544x, Extended Probes License Key.	\$	942.48
1091905910-01	OSA 543X/4X/SYNC 1588-PTP /G8275-1-L2	\$	1,499.52
1091905914-01	OSA 543X/4X/SYNC 1588-PTP /KEY-1024	\$	3,599.63
1091905918-01	OSA 543X/4X/ePRTC/KEY	\$	6,600.00
1013904464	1RU 19" Panel for air filter and cable management tray	\$	217.80
1013904465	Mylar top cover plate	\$	22.45
1042900001-01	OSA 5440 Fan Tray Module	\$	327.37
1091904951-04	SYNCJACK OS, OSA 543X and OSA 544X, Pre-installed SW, R10.2.4	\$	-
1091904951-05	SYNCJACK OS, OSA 543X and OSA 544X, Pre-installed SW, R10.2.5	\$	-
1091904962-01	SYNCJACK OS, OSA 543X and OSA 544X, Pre-installed SW, R11.1.1	\$	-
1013904467	External AC/DC power converter for OSA543x / 544x. Input 85-264VAC - IEC320-C14 AC inlet / Output 48VDCm max 3.3A - 1.5m cable with 543x / 544x power supply connector and grounding - Order AC cable separately	\$	421.08
1091905922-01	OSA 543x/4x POWER PROFILE 1588-PTP	\$	1,452.00
1091904964-01	SYNCJACK OS, OSA 543X and OSA 544X, Pre-installed SW, R11.5.1	\$	-
1091904898-01	OSA 543X/4X/SYNC 1588-PTP /KEY-64	\$	666.60
BC47020304-01	Latest release pre-installed SW for OSA543x and OSA5440, applicable on 5430 HW 1078904693-01 and 5440 HW 1078904694-02	\$	-
3000-167	SFP, 1000BASE-LX, 1310NM, 10KM SMF, I-temp	\$	144.76
3000-079	SFP, 100FX, 1310, SM, IR, iTemp	\$	108.57
3000-166	SFP, 1000BASE-SX, 850nm, 500m MMF, I-temp	\$	208.10
3000-053	SFP, OC-12, 1310, SM, IR, DDM, I-temp	\$	108.57
3000-055	SFP, OC-3, 1310, SM, IR, I-temp	\$	108.57
3000-221	SFP+, 10GBASE-LR, 1310nm, 10km, SMF, I-Temp	\$	309.43
3000-220	SFP+, 10GBASE-SR, 850nm, 200m, MMF, I-temp	\$	821.52
0061705844-03	pluggable client I/F for 850nm, intra office reach	\$	90.53
0061705805-02	pluggable client I/F for 1310nm, short reach	\$	88.17
1061003028	GBE 1490 Bi-directional pluggable transceiver C-Temp 80KM	\$	406.86
1061003029	GBE 1570 Bi-directional pluggable transceiver C-Temp 80KM	\$	428.19
1061701833-02	4G/8G Pluggable I/F for 1310nm, short reach	\$	356.42
1061701837-02	4G/8G Pluggable I/F for 850nm, intra office reach	\$	440.32
1061480691-01	SFP+, 614Mbps to 11.3Gbps, CWDM 1471NM, 40KM, SM, DLC, DD, Industrial Temperature - 40C to +85C	\$	1,066.67
1061480698-01	SFP+, 614Mbps TO 11.3Gbps, CWDM 1611NM, 40KM, SM, DLC, DD, Industrial Temperature - 40C to +85C	\$	1,066.67
1061480694-01	SFP+, 614Mbps to 11.3Gbps, CWDM 1531NM, 40KM, SM, DLC, DD, Industrial Temperature - 40C to +85C	\$	1,066.67

1061480697-01	SFP+, 614Mbps to 11.3Gbps, CWDM 1591NM, 40KM, SM, DLC, DD, Industrial Temperature - 40C to +85C	\$	1,066.67
1061480696-01	SFP+, 614Mbps TO 11.3Gbps, CWDM 1571NM, 40KM, SM, DLC, DD, Industrial Temperature - 40C to +85C	\$	1,066.67
1061480695-01	SFP+, 614Mbps to 11.3Gbps, CWDM 1551NM, 40KM, SM, DLC, DD, Industrial Temperature - 40C to +85C	\$	1,066.67
1061480692-01	SFP+, 614Mbps to 11.3Gbps, CWDM 1491NM, 40KM, SM, DLC, DD, Industrial Temperature - 40C to +85C	\$	1,066.67
1061480693-01	SFP+, 614Mbps to 11.3Gbps, CWDM 1511NM, 40KM, SM, DLC, DD, Industrial Temperature - 40C to +85C	\$	1,066.67
1061702393-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery	\$	1,449.37
1061702394-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery	\$	1,449.37
1061702395-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery	\$	1,374.21
1061702397-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery	\$	1,449.37
1061702396-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery	\$	1,449.37
1061702391-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery	\$	1,449.37
1061702392-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery	\$	1,449.37
1061702398-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery	\$	1,449.37
1061701884-01	11G Pluggable CWDM I/F, short reach, SFP+ form factor with clock recovery	\$	449.56
1061701883-01	11G Pluggable CWDM I/F, short reach, SFP+ form factor with clock recovery	\$	449.56
1061701885-01	11G Pluggable CWDM I/F, short reach, SFP+ form factor with clock recovery	\$	449.56
1061701886-01	11G Pluggable CWDM I/F, short reach, SFP+ form factor with clock recovery	\$	449.56
1061705854-02	pluggable client I/F for 850nm, intra office reach, industrial temperature range	\$	71.92
1061700656-01	Client CFP for 100GbE and OTU4, SR10 type	\$	4,818.88
1061705851-02	pluggable client I/F for 1310nm, long reach, industrial temperature range	\$	173.22
61702470	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702471	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702472	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702481	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
1061701593-01	11G Pluggable CWDM I/F, very long reach, SFP+ form factor with clock recovery	\$	3,781.22
1061701596-01	11G Pluggable CWDM I/F, very long reach, SFP+ form factor with clock recovery	\$	3,781.22
1061700632-01	224G Pluggable, coherent, C-Band tunable DWDM network IF center frequency from 191.23 to 196.1 THz on a 12.5GHz grid, improved performance and suitable for colorless add/drop	\$	40,469.73
61704491	up to 2.7G Pluggable CWDM I/F, very long reach	\$	324.23
61704492	up to 2.7G Pluggable CWDM I/F, very long reach	\$	324.23
61704493	up to 2.7G Pluggable CWDM I/F, very long reach	\$	324.23
61704494	up to 2.7G Pluggable CWDM I/F, very long reach	\$	324.23
61704495	up to 2.7G Pluggable CWDM I/F, very long reach	\$	324.23
61704496	up to 2.7G Pluggable CWDM I/F, very long reach	\$	324.23
61704497	up to 2.7G Pluggable CWDM I/F, very long reach	\$	324.23
61704498	up to 2.7G Pluggable CWDM I/F, very long reach	\$	324.23
61702401	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702402	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702403	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61705807	pluggable client I/F for 1310nm, long reach, up to 2.7G	\$	460.00
61705824	pluggable client I/F for 1310nm, short reach	\$	56.36
61705890	pluggable client I/F for GbE copper interface	\$	166.65

61702404	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702405	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702406	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702407	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702408	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702409	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702410	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702411	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702412	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702413	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702414	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702415	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702416	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702417	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702418	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702419	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702420	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702421	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702422	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702423	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702424	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702425	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702426	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702427	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702428	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702429	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702430	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702431	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702432	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702465	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702466	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702467	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702468	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
61702469	up to 4G Pluggable DWDM I/F, very long reach	\$	1,073.49
0061701811-03	11G Pluggable I/F for 1310nm, short reach	\$	220.08
1061704483	up to 2.7G Pluggable CWDM I/F, very long reach	\$	336.80
1061704484	up to 2.7G Pluggable CWDM I/F, very long reach	\$	336.80
1061704485	up to 2.7G Pluggable CWDM I/F, very long reach	\$	336.80
1061704486	up to 2.7G Pluggable CWDM I/F, very long reach	\$	336.80
1061704487	up to 2.7G Pluggable CWDM I/F, very long reach	\$	336.80
1061704488	up to 2.7G Pluggable CWDM I/F, very long reach	\$	336.80
1061704489	up to 2.7G Pluggable CWDM I/F, very long reach	\$	336.80
1061704490	up to 2.7G Pluggable CWDM I/F, very long reach	\$	336.80
1061706083	pluggable client I/F for 1528.77nm, extended reach, 125Mbit/s only	\$	1,270.61
1061706192	pluggable client I/F for 1490nm, very long reach, 125Mbit/s only	\$	324.69
1061706193	pluggable client I/F for 1510nm, very long reach, 125Mbit/s only	\$	159.89
61003002	SFP - 100Mbps (1310nm) Optic, Singlemode LC (10km)	\$	88.59



61003004	SFP - 100Mbps (1550nm) Optic, Singlemode LC (80km)	\$	408.04
61003006	SFP - Multimode (850nm) LC Gigabit Ethernet LED (220m)	\$	77.68
61003008	SFP - GigE (1310nm) Optic, Singlemode LC (10km)	\$	73.10
61003009	SFP - GigE (1310nm) Optic, Singlemode LC (40km)	\$	187.09
61003010	SFP - GigE (1550nm) Optic, Singlemode LC (80km)	\$	590.99
61003011	SFP - GigE (1550nm + APD) Optic, Singlemode LC (120km)	\$	949.83
61003014	SFP - GigE (1000BaseBX10) Optic, BiDi 1310nm Singlemode (10km)	\$	68.57
61003015	SFP - GigE (1000BaseBX10) Optic, BiDi 1490nm Singlemode (10km)	\$	89.90
61003018	SFP - GigE (1000BaseBX40) Optic, BiDi 1310nm Singlemode (40km)	\$	185.90
61003019	SFP - GigE (1000BaseBX40) Optic, BiDi 1490nm Singlemode (40km)	\$	185.90
61701812	11G Pluggable I/F for 1550nm, long reach	\$	966.86
61705993	pluggable client I/F for 1510nm, ultra long reach, 125Mbit/s only	\$	372.99
1061701491	11G Pluggable CWDM I/F, very long reach	\$	1,713.26
1061701492	11G Pluggable CWDM I/F, very long reach	\$	1,713.26
1061701493	11G Pluggable CWDM I/F, very long reach	\$	1,713.26
1061701494	11G Pluggable CWDM I/F, very long reach	\$	1,376.29
1061701495	11G Pluggable CWDM I/F, very long reach	\$	1,376.29
1061701496	11G Pluggable CWDM I/F, very long reach	\$	1,713.26
1061701497	11G Pluggable CWDM I/F, very long reach	\$	2,352.25
1061701498	11G Pluggable CWDM I/F, very long reach	\$	2,352.25
1061701691	11G Pluggable CWDM I/F, long reach	\$	1,487.73
1061701692	11G Pluggable CWDM I/F, long reach	\$	1,487.73
1061701693	11G Pluggable CWDM I/F, long reach	\$	1,487.73
1061701694	11G Pluggable CWDM I/F, long reach	\$	999.10
1061701695	11G Pluggable CWDM I/F, long reach	\$	999.10
1061701696	11G Pluggable CWDM I/F, long reach	\$	1,487.73
1061701697	11G Pluggable CWDM I/F, long reach	\$	1,487.73
1061701698	11G Pluggable CWDM I/F, long reach	\$	1,487.73
1061702192-02	11G Pluggable CWDM I/F, long reach, SFP+ form factor	\$	1,411.77
1061702191-02	11G Pluggable CWDM I/F, long reach, SFP+ form factor	\$	1,411.77
1061702193-02	11G Pluggable CWDM I/F, long reach, SFP+ form factor	\$	1,411.77
1061705855-01	SFP, GPON ONU, Single-Fiber SC/APC-Connector, -40C to +85C	\$	480.00
1061701889-01	Bi-Directional SFP+ for Single Fiber Working, Tx:1270nm / Rx:1330nm, long reach	\$	518.10
1061701890-01	Bi-Directional SFP+ for Single Fiber Working, Tx:1330nm / Rx:1270nm, long reach	\$	518.10
1061701887-01	Bi-Directional SFP+ for Single Fiber Working, Tx:1270nm / Rx:1330nm, short reach	\$	275.81
1061701888-01	Bi-Directional SFP+ for Single Fiber Working, Tx:1330nm / Rx:1270nm, short reach	\$	275.81
1061702194-02	11G Pluggable CWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702196-02	11G Pluggable CWDM I/F, long reach, SFP+ form factor	\$	998.32
1061702195-02	11G Pluggable CWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702197-02	11G Pluggable CWDM I/F, long reach, SFP+ form factor	\$	1,411.77
1061702198-02	11G Pluggable CWDM I/F, long reach, SFP+ form factor	\$	1,411.77
1061700618-02	112G Pluggable, coherent, C-Band tunable DWDM network IF center frequency from 191.23 to 196.1 THz on a 12.5GHz grid	\$	30,490.57
1061700619-02	112G Pluggable, coherent, C-Band tunable DWDM network IF	\$	29,682.69
1061705876-01	Bi-Directional SFP for Single Fiber Working, Tx:1310nm / Rx:1490nm, short reach	\$	269.14
1061705874-01	Bi-Directional SFP for Single Fiber Working, Tx:1310nm / Rx:1490nm, long reach	\$	450.97
1061705875-01	Bi-Directional SFP for Single Fiber Working, Tx:1490nm / Rx:1310nm, long reach	\$	450.97

1061705877-01	Bi-Directional SFP for Single Fiber Working, Tx:1490nm / Rx:1310nm, short reach	\$ 358.90
1061701891-01	Bi-Directional XFP for Single Fiber Working, Tx:1270nm / Rx:1330nm, short reach	\$ 281.90
1061701892-01	Bi-Directional XFP for Single Fiber Working, Tx:1330nm / Rx:1270nm, short reach	\$ 281.90
1061701851-02	10G Pluggable I/F for 1310nm, short reach, SFP+ form factor	\$ 127.96
1061701855-02	10G Pluggable I/F for 850nm, intra office reach, SFP+ form factor	\$ 113.87
1061701121-01	16G Pluggable I/F for 1310nm, short reach, SFP+ form factor with clock recovery	\$ 1,399.26
1061701125-01	16G Pluggable I/F for 850nm, intra office reach, SFP+ form factor with clock recovery	\$ 733.24
1061701850-03	10G Pluggable I/F for 1310nm, short reach, SFP+ form factor	\$ 127.96
1061701854-03	11G Pluggable I/F for 850nm, intra office reach, SFP+ form factor	\$ 125.18
0061703825-02	4G pluggable client I/F for 850nm, intra office reach	\$ 108.93
1061702000-02	11G Pluggable, very long reach C-Band tunable DWDM network IF, SFP+ form factor	\$ 3,047.85
1061702591-02	11G Pluggable CWDM I/F, very long reach, SFP+ form factor	\$ 2,414.08
1061702593-02	11G Pluggable CWDM I/F, very long reach, SFP+ form factor	\$ 2,414.08
1061702595-02	11G Pluggable CWDM I/F, very long reach, SFP+ form factor	\$ 2,414.08
1061702592-02	11G Pluggable CWDM I/F, very long reach, SFP+ form factor	\$ 2,414.08
1061702594-02	11G Pluggable CWDM I/F, very long reach, SFP+ form factor	\$ 2,414.08
1061702596-02	11G Pluggable CWDM I/F, very long reach, SFP+ form factor	\$ 2,414.08
1061702598-02	11G Pluggable CWDM I/F, very long reach, SFP+ form factor	\$ 2,414.08
1061702597-02	11G Pluggable CWDM I/F, very long reach, SFP+ form factor	\$ 2,414.08
1061700654-01	Client CFP for 100GbE and OTU4, ER4 type	\$ 18,899.45
1061702097-01	Bi-Directional SFP+ for Single Fiber Working, Tx:1490nm / Rx:1550nm, very long reach	\$ 3,405.33
1061702098-01	Bi-Directional SFP+ for Single Fiber Working, Tx:1550nm / Rx:1490nm, very long reach	\$ 3,405.33
1061702100-01	11G Pluggable, long reach, OSNR optimized C-Band tunable DWDM network IF, SFP+ form factor	\$ 3,166.25
1061702091-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$ 998.32
1061702093-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$ 998.32
1061800801-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$ 15,108.51
1061800790-01	QSFP14-SR4, LC, 100m, 4x10G, 850nm, grey, 8G FC, 16G FC	\$ 923.70
1061800803-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$ 15,108.51
1061800804-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$ 15,108.51
1061800805-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$ 15,108.51
1061701200-02	11G Pluggable, long reach, OSNR optimized C-Band tunable DWDM network IF, XFP form factor	\$ 3,042.27
1061003030	GBE 1510 Bi-directional pluggable transceiver C-Temp 120KM	\$ 1,110.86
1061003031	GBE 1590 Bi-directional pluggable transceiver C-Temp 120KM	\$ 1,152.00
1061701401-05	11G Pluggable DWDM I/F, very long reach	\$ 1,376.29
1061701402-05	11G Pluggable DWDM I/F, very long reach	\$ 1,376.29
1061701403-05	11G Pluggable DWDM I/F, very long reach	\$ 1,376.29
1061701404-05	11G Pluggable DWDM I/F, very long reach	\$ 1,376.29
1061701405-05	11G Pluggable DWDM I/F, very long reach	\$ 1,376.29
1061701406-05	11G Pluggable DWDM I/F, very long reach	\$ 1,376.29
1061701407-05	11G Pluggable DWDM I/F, very long reach	\$ 1,376.29
1061701408-05	11G Pluggable DWDM I/F, very long reach	\$ 1,376.29
1061701409-05	11G Pluggable DWDM I/F, very long reach	\$ 1,376.29
1061701410-05	11G Pluggable DWDM I/F, very long reach	\$ 1,376.29
1061701411-05	11G Pluggable DWDM I/F, very long reach	\$ 1,376.29
1061701412-05	11G Pluggable DWDM I/F, very long reach	\$ 1,376.29

1061701413-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701414-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701415-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701416-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701417-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701418-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701419-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701420-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701421-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701422-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701423-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701424-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701425-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701426-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701427-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701428-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701429-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701430-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701431-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701432-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701465-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701466-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701467-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701468-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701469-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701470-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701471-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701472-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061701481-05	11G Pluggable DWDM I/F, very long reach	\$	1,376.29
1061800770-01	QSFP10-LR4, LC, 10km, 4x10G, CWDM, grey, 40GBE and OTU3, OTU3e2	\$	1,483.20
1051002601-01	QSFP28 Active Optical Cable (AOC), 4x28G, 100 cm, 850nm, grey, 100GBE (requires 802.3bj FEC) and OTU4 (requires GFEC)	\$	820.11
1061800780-01	QSFP10-4LR, MPO, 10km, 4x10G, grey, 10GBE and OTU2	\$	1,226.17
1061800744-01	QSFP28-SR4, MPO, 4x28G, 100m, 850nm, grey, 100GBE (requires 802.3bj FEC)	\$	556.38
1061800720-01	QSFP28-LR4, LC, 4x28G, 10km, LAN-WDM around 1310nm, grey, 100GBE (no FEC) and OTN	\$	2,885.87
1051002603-01	QSFP28 Active Optical Cable (AOC), 4x28G, 300 cm, 850nm, grey, 100GBE (requires 802.3bj FEC) and OTU4 (requires GFEC)	\$	820.11
1051002605-01	QSFP28 Active Optical Cable (AOC), 4x28G, 500 cm, 850nm, grey, 100GBE (requires 802.3bj FEC) and OTU4 (requires GFEC)	\$	820.11
1061800740-01	QSFP28-LR4, LC, 4x28G, 10km, LAN-WDM around 1310nm, grey, 100GBE (no FEC)	\$	2,850.95
1061800756-01	QSFP28-CWDM4, LC, 4x28G, 2km, CWDM around 1310nm, grey, 100GBE (no FEC)	\$	1,050.34
1061800774-01	QSFP10-SR4, MPO, 100m, 4x10G, 850nm, grey, 40GBE and OTU3, OTU3e2	\$	306.04
1061702019-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702059-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702011-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702043-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702021-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16

1061702017-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702015-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702023-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702025-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702039-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702027-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702029-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702033-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702035-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702031-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702037-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702045-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702047-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702049-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702051-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702053-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702057-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702055-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702061-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702073-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702063-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702067-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702065-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702069-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702071-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702077-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702075-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702079-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702089-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	998.32
0061702491-03	up to 4G Pluggable CWDM I/F, very long reach	\$	336.80
1061702001-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702081-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702007-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702009-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702005-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702041-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702013-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061702003-01	11G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	923.16
1061707498-01	Bi-Directional SFP for Single Fiber Working 1615nm, H channel	\$	1,676.30
1061701893-02	Bi-Directional XFP for Single Fiber Working, Tx:1270nm / Rx:1330nm, long reach	\$	712.08
1061701895-02	Bi-Directional XFP for Single Fiber Working, Tx:1270nm / Rx:1330nm, short reach	\$	336.80
1061701894-02	Bi-Directional XFP for Single Fiber Working, Tx:1330nm / Rx:1270nm, long reach	\$	712.08
1061701896-02	Bi-Directional XFP for Single Fiber Working, Tx:1330nm / Rx:1270nm, short reach	\$	336.80
0061704505-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704501-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
1061700655-02	Client CFP for 100GbE and OTU4, LR4 type	\$	5,388.38
1061702301-01	11G Pluggable DWDM I/F, very long reach, SFP+ form factor with clock recovery	\$	4,908.84



0061704581-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704515-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704516-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704569-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704568-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704503-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704512-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704508-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704513-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704522-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
1061701400-01	11G Pluggable, very long reach C-Band tunable DWDM network IF	\$	3,059.60
0061702492-03	up to 4G Pluggable CWDM I/F, very long reach	\$	336.80
0061702493-03	up to 4G Pluggable CWDM I/F, very long reach	\$	336.80
0061702494-03	up to 4G Pluggable CWDM I/F, very long reach	\$	336.80
0061702495-03	up to 4G Pluggable CWDM I/F, very long reach	\$	336.80
0061702496-03	up to 4G Pluggable CWDM I/F, very long reach	\$	336.80
0061702497-03	up to 4G Pluggable CWDM I/F, very long reach	\$	336.80
0061702498-03	up to 4G Pluggable CWDM I/F, very long reach	\$	336.80
0061704510-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704519-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704520-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704521-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704523-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704524-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704526-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704527-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704528-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704529-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704530-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704531-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704532-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704565-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704566-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704567-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704570-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704571-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704572-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061703805-02	4G pluggable client I/F for 1310nm, short reach	\$	221.92
1061707598-01	Bi-Directional SFP for Single Fiber Working 1605nm, L channel	\$	1,676.30
0061704507-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704525-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704511-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
0061704509-03	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,073.49
1061705911-01	Bi-Directional SFP for Single Fiber Working 1471nm, H channel 20km	\$	1,322.78
1061705912-01	Bi-Directional SFP for Single Fiber Working 1491nm, L channel 20km	\$	1,322.78
1061705910-01	Bi-Directional SFP for Single Fiber Working 1471nm, L channel 20km	\$	1,322.78
1061705913-01	Bi-Directional SFP for Single Fiber Working 1491nm, H channel 20km	\$	1,322.78

1061705916-01	Bi-Directional SFP for Single Fiber Working 1531nm, L channel 20km	\$	1,322.78
1061705914-01	Bi-Directional SFP for Single Fiber Working 1511nm, L channel 20km	\$	1,322.78
1061705917-01	Bi-Directional SFP for Single Fiber Working 1531nm, H channel 20km	\$	1,322.78
1061705918-01	Bi-Directional SFP for Single Fiber Working 1551nm, L channel 20km	\$	1,322.78
1061705919-01	Bi-Directional SFP for Single Fiber Working 1551nm, H channel 20km	\$	1,322.78
1061705920-01	Bi-Directional SFP for Single Fiber Working 1571nm, L channel 20km	\$	1,322.78
1061705922-01	Bi-Directional SFP for Single Fiber Working 1591nm, L channel 20km	\$	1,322.78
1061705921-01	Bi-Directional SFP for Single Fiber Working 1571nm, H channel 20km	\$	1,322.78
1061705923-01	Bi-Directional SFP for Single Fiber Working 1591nm, H channel 20km	\$	1,322.78
1061705915-01	Bi-Directional SFP for Single Fiber Working 1511nm, H channel 20km	\$	1,322.78
1061705850-02	pluggable client I/F for 1310nm, short reach, industrial temperature range	\$	56.36
1061701943-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701947-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701951-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701949-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701957-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701955-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701945-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701953-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701969-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701961-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701965-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701959-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701971-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701973-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701975-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701967-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701963-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701977-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701983-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	5,284.69
1061701989-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	5,284.69
1061701985-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	5,284.69
1061701979-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701981-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701927-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701931-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701933-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701935-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701937-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701939-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701941-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701991-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	5,284.69
1061701987-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	5,284.69
1061701995-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	5,284.69
1061701993-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	5,284.69
1061701901-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701903-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34

1061701907-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701905-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701909-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701911-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701915-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701917-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701913-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701921-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701919-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701923-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701925-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701929-01	8G/16G Pluggable 50GHz DWDM I/F, long reach, SFP+ form factor	\$	4,456.34
1061701853-01	8G Pluggable I/F for 1310nm, short reach, SFP+ form factor	\$	657.22
0061701825-02	10G Pluggable I/F for 850nm, intra office reach	\$	311.68
1061702291-01	4G/8G Pluggable CWDM I/F, long reach	\$	2,654.27
1061702292-01	4G/8G Pluggable CWDM I/F, long reach	\$	2,654.27
1061702293-01	4G/8G Pluggable CWDM I/F, long reach	\$	2,654.27
1061702294-01	4G/8G Pluggable CWDM I/F, long reach	\$	2,654.27
1061702295-01	4G/8G Pluggable CWDM I/F, long reach	\$	2,654.27
1061702296-01	4G/8G Pluggable CWDM I/F, long reach	\$	2,654.27
1061702297-01	4G/8G Pluggable CWDM I/F, long reach	\$	2,654.27
1061702298-01	4G/8G Pluggable CWDM I/F, long reach	\$	2,654.27
1061800838-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800839-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800834-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800791-01	QSFP10-4LR, LC, 10km, 4x10G, grey, 8G FC, 16G FC	\$	1,532.72
1061800821-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800820-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800822-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800826-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800823-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800827-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800825-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800824-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800830-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800829-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800835-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800837-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800836-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800833-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800840-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800832-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800730-01	QSFP28-ER4F, LC, 4x28G, 40km with FEC, 25km without FEC, LAN-WDM around 1310nm, grey, 100GBE and OTN	\$	11,902.40
1051002636-01	QSFP28 Digital Active Cable length 3m, max AWG30 or AWG32, with R CDR, with EPROM	\$	1,273.64



1051002635-01	QSFP28 Digital Active Cable length 1m, max AWG30 or AWG32, with R CDR, with EPROM	\$	1,029.85
1061800802-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800808-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800807-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800806-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800828-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800810-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800813-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800812-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800809-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800811-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800815-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800814-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800817-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800816-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800819-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800818-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061800831-01	QSFP28, LC, PAM4, 2x56G, colored 100GBE, FEC,	\$	15,108.51
1061701131-01	16G Pluggable I/F for 1310nm, short reach, SFP+ form factor	\$	1,029.20
1061705852-02	pluggable client I/F for 1550nm, very long reach, industrial temperature range	\$	526.38
1061800724-01	QSFP28-SR4, MPO, 4x28G, 100m, 850nm, grey, 100GBE (requires 802.3bj FEC) and OTN (requires GFEC)	\$	651.09
1061700631-01	CFP2 DWDM C-Band tunable coherent with up to 224Gbit/s, supporting QPSK 100G, 8QAM 200G and 16QAM 200G mode	\$	36,410.30
1061701871-01	Bi-Directional SFP+ for Single Fiber Working, Tx:1270nm / Rx:1330nm, short reach, with clock recovery	\$	548.69
1061701872-01	Bi-Directional SFP+ for Single Fiber Working, Tx:1330nm / Rx:1270nm, short reach, with clock recovery	\$	548.69
1061701873-01	Bi-Directional SFP+ for Single Fiber Working, Tx:1270nm / Rx:1330nm, long reach, with clock recovery	\$	699.05
1061701863-01	8G/10G Pluggable I/F for 1310nm, short reach, SFP+ form factor with clock recovery	\$	148.00
1061705883-01	Bi-Directional SFP for Single Fiber Working 1611nm, H channel 20km	\$	1,272.38
1061705882-01	Bi-Directional SFP for Single Fiber Working 1611nm, L channel 20km	\$	1,272.38
1061705885-01	Bi-Directional SFP for Single Fiber Working 1611nm, H channel 40km	\$	1,409.52
1061705884-01	Bi-Directional SFP for Single Fiber Working 1611nm, L channel 40km	\$	1,409.52
1061482114-01	SFP 1000Base-LX, SM, 1310 nm. 10km, with Digital Diagnostics	\$	191.09
1061481005-01	SFP+, 8 to 10.52 Gbps bit Rate. MM, 850 nm, 300m with Digital Diagnostics.	\$	512.51
1061482189-01	SFP supporting 1000Base-T for Layer 2 and higher devices	\$	392.23
1061482128-01	SFP Dual Rate 1/2.1 Gbps SX, or 1000Base-SX GigE, MM, 850 nm, 550m, with Digital Diagnostics	\$	188.27
1061480213-01	QSFP+ 40GBase-SR4 MM 100m	\$	2,050.04
1061480210-01	QSFP28 100G Ethernet 100GBase-SR4 MM, 100m	\$	668.46
1061480300-01	SFP+, 8.5 to 11.3 Gbps bit Rate, DWDM 50GHz Tunable, C-Band, Ch13C - Ch60H, 80km, SM.	\$	14,601.35
1061482169-01	SFP 1000Base-BX, SM Single Fiber LC, TX: 1310 nm, RX: 1490 nm. 40km, with Digital Diagnostics	\$	533.03
1061482161-01	SFP 1000Base-BX, SM Single Fiber LC, TX: 1310 nm, RX: 1490 nm. 20km, with Digital Diagnostics	\$	324.23

1061482163-01	SFP 1000Base-BX, SM Single Fiber LC, TX: 1490 nm, RX: 1310 nm. 20km, with Digital Diagnostics	\$	533.45
1061482146-01	SFP 100Base-BX and OC3, SM Single Fiber LC, TX: 1310 nm, RX: 1550 nm. 20km, with Digital Diagnostics	\$	282.40
1061482148-01	SFP 100Base-BX and OC3, SM Single Fiber LC, TX: 1550 nm, RX: 1310 nm. 20km, with Digital Diagnostics	\$	282.40
1061701874-01	Bi-Directional SFP+ for Single Fiber Working, Tx:1330nm / Rx:1270nm, long reach, with clock recovery	\$	699.05
1061481007-01	SFP+, 8 to 11.3 Gbps bit Rate. SM, 1310 nm, 10km.	\$	1,035.49
1061480214-01	QSFP+ 40GBase-LR SM 10km	\$	10,417.58
1061701135-01	16G Pluggable I/F for 850nm, intra office reach, SFP+ form factor	\$	530.27
1061480301-01	Tunable SFP+, multi-rate 622M to 11.3 Gbps bit Rate, DWDM 50GHz, C-Band, Ch13C - Ch60H, 80km, SM. Extended temperature -5C to +85C	\$	18,785.12
1061482171-01	SFP 1000Base-BX, SM Single Fiber LC, TX: 1490 nm, RX: 1310 nm. 40km, with Digital Diagnostics	\$	533.03
1061480105-01	CFP 100G SM DWDM Metro 4 wavelength tunable @ 100GHZ. For OD-TXP100G transparent transponders only	\$	146,390.15
1061480211-01	QSFP28 100G Ethernet 100GBase-LR4 SM 10km	\$	2,814.53
1061480161-01	CFP 100GBase-LR4 multirate 100GE/OTU4, SM, 10KM	\$	89,909.24
1061482100-01	SFP Multi-rate SR1, 100-2700Mbps, SM, 1310 nm, 2km with Digital Diagnostics	\$	593.37
1061482118-01	SFP 1000BASE-LX SM, 1310 nm. 0-20KM, Industrial Temperature -40C to +85C	\$	261.49
1061482110-01	SFP 1000Base-SX, Extended MM, 1310 nm, 1km	\$	1,244.67
1061482173-01	SFP 1000Base-BX, SM Single Fiber LC, TX: 1490 nm, RX: 1570 nm. 80km, with Digital Diagnostics	\$	1,663.05
1061482175-01	SFP 1000Base-BX, SM Single Fiber LC, TX: 1570 nm, RX: 1490 nm. 80km, with Digital Diagnostics	\$	1,663.05
1061480162-01	CFP 100GBase-SR10 multirate 100GE/OTU4, MM, 100m	\$	12,509.47
1061705896-01	Pluggable 1000Base-T transeiver, copper interface - with support for NTP/PTP on 543x/544x, SyncE Master/Slave on 543x/544x CSM, SyncE Master on 543x/544x line cards	\$	473.60
1061702200-01	11G Pluggable, very long reach (80Km) C-Band tunable DWDM network IF	\$	3,795.81
1061701865-02	8G/10G Pluggable I/F for 850nm, intra office reach, SFP+ form factor with clock recovery	\$	166.02
1061800752-01	QSFP28-PSM4, MPO, 4x28G, 500m, 4 fibers at 1310nm, grey, 100GBE (no FEC)	\$	1,560.04
1061702099-01	11G Pluggable, very long reach with extended output power, C-Band tunable DWDM network IF, SFP+ form factor	\$	4,284.51
1061701111-01	25G Pluggable I/F for 1310nm, short reach	\$	661.33
1061701115-01	25G Pluggable I/F for 850nm, intra office reach,	\$	603.43
1061800765-01	QSFP28-SR4, MPO, 4x28G, 100m, 850nm, TWD	\$	1,005.71
1061701859-01	10G Pluggable I/F for 1310nm, short reach, SFP+ form factor, I-temp	\$	216.38
1061701858-01	10G Pluggable I/F for 850nm, intra office reach, SFP+ form factor, I-temp	\$	495.24
1061800757-01	QSFP28-CWDM4, LC, 4x28G, 10km, CWDM around 1310nm, grey, 100GBE (no FEC)	\$	1,111.09
1061702000-03	11G Pluggable, very long reach C-Band tunable DWDM network IF, SFP+ form factor	\$	3,056.04
1051002704-01	QSFP56-DD Active Optical Cable (AOC), 1000 cm, 850nm, grey, 400GBE	\$	9,025.62
1061700636-01	448G Pluggable, coherent, C-Band tunable DWDM network IF center frequency from 191.23 to 196.1 THz on a 12.5GHz grid suitable for colorless add/drop	\$	35,858.29
1061700637-01	448G Pluggable, coherent, C-Band tunable DWDM network IF center frequency from 191.23 to 196.1 THz on a 12.5GHz grid	\$	33,152.00
1061701814-01	10G Pluggable, 40km reach, C-Band DWDM network IF with limited tuning range Band 5 from 19520 to 19600GHz, I-temp solution	\$	2,202.82
1061701815-01	10G Pluggable, 40km reach, C-Band DWDM network IF with limited tuning range Band 4 from 19440 to 19520GHz, I-temp solution	\$	2,202.82

1061701816-01	10G Pluggable, 40km reach, C-Band DWDM network IF with limited tuning range Band 3 from 19360 to 19440GHz, I-temp solution	\$	2,202.82
1061701819-01	10G Pluggable, 40km reach, C-Band DWDM network IF with limited tuning range Band 0 from 19130 to 19200GHz, I-temp solution	\$	2,202.82
1061701878-01	11G Pluggable, very long reach C-Band tunable DWDM network IF, SFP+ form factor, Temperature Widened (TIN: -40C to +85C)	\$	3,160.38
1061701856-01	10G Pluggable I/F for 850nm, 300m, SFP+ form factor, Dual Rate, I-temp	\$	121.90
1061701864-01	10G Pluggable I/F for 1310nm, 10km, SFP+ form factor, Dual Rate, I-temp	\$	152.38
0061704572-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704515-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704512-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704513-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704517-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704568-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704581-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704521-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704519-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704520-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704522-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
1061707601-01	Bi-Directional SFP for Single Fiber Working 1495nm, H channel	\$	2,091.89
1061707602-01	Bi-Directional SFP for Single Fiber Working 1485nm, H channel	\$	2,091.89
1061800931-01	QSFP56-DD, MPO, 8x56G, 100m, 850nm, grey, 400GBE	\$	3,528.48
1061701595-01	11G Pluggable CWDM I/F, very long reach, SFP+ form factor with clock recovery	\$	3,781.22
0061704530-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
1061704500-01	pluggable client I/F for 1310nm, short reach, I-temp	\$	160.00
1061702791-01	up to 2.7G Pluggable CWDM I/F, very long reach, I-temp	\$	365.71
0061704511-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
1061702794-01	up to 2.7G Pluggable CWDM I/F, very long reach, I-temp	\$	365.71
1061701859-02	10G Pluggable I/F for 1310nm, short reach, SFP+ form factor, I-temp	\$	137.14
0061704528-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
1061701858-02	10G Pluggable I/F for 850nm, intra office reach, SFP+ form factor, I-temp	\$	76.19
1061702698-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery, I-temp	\$	1,600.00
1061702797-01	up to 2.7G Pluggable CWDM I/F, very long reach, I-temp	\$	365.71
1061702694-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery, I-temp	\$	1,600.00
1061701899-01	10G Pluggable I/F for electrical, SFP+ form factor	\$	480.00
0061704532-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704524-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
1061700637-02	448G Pluggable, coherent, C-Band tunable DWDM network IF center frequency from 191.23 to 196.1 THz on a 12.5GHz grid	\$	33,152.00
1061702695-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery, I-temp	\$	1,600.00
1061702692-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery, I-temp	\$	1,600.00
1061701998-01	11G Pluggable I/F for 1310nm, short reach, SFP+ form factor with clock recovery, I-temp	\$	198.10
1061702795-01	up to 2.7G Pluggable CWDM I/F, very long reach, I-temp	\$	365.71
1061702693-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery, I-temp	\$	1,600.00
1061702697-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery, I-temp	\$	1,600.00
1061702691-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery, I-temp	\$	1,600.00
1061700634-01	112G Pluggable, coherent, C-Band tunable DWDM network IF, lower output power, suitable for passive colorless add/drop	\$	27,218.84

0061704525-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
1061800750-01	QSFP28-LR, LC, 106G (53GBaud PAM4), 10km, grey, 100GBE	\$	1,904.76
1061800751-01	QSFP28-DR, LC, 106G (53GBaud PAM4), 500 meters, grey, 100GBE	\$	1,353.14
1061702796-01	up to 2.7G Pluggable CWDM I/F, very long reach, I-temp	\$	365.71
0061704501-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704527-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
1061702798-01	up to 2.7G Pluggable CWDM I/F, very long reach, I-temp	\$	365.71
0061704531-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
1061701997-01	10G Pluggable I/F for 850nm, intra office reach, SFP+ form factor with clock recovery, I-temp	\$	190.48
1061702696-01	11G Pluggable CWDM I/F, long reach, SFP+ form factor with clock recovery, I-temp	\$	1,600.00
1061700636-02	448G Pluggable, coherent, C-Band tunable DWDM network IF center frequency from 191.23 to 196.1 THz on a 12.5GHz grid suitable for colorless add/drop	\$	35,858.29
1061702793-01	up to 2.7G Pluggable CWDM I/F, very long reach, I-temp	\$	365.71
1061702792-01	up to 2.7G Pluggable CWDM I/F, very long reach, I-temp	\$	365.71
0061704571-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
1061480097-01	CFP2 100G SM ER4 multirate 100G Ethernet	\$	16,900.57
1061701104-01	28G pluggable I/F for for 32/16G FibreChannel 850nm, short reach 100m, SFP28 form factor	\$	1,462.86
1061800768-01	QSFP28-FR, LC, 106G (53GBaud PAM4), 2km, grey, 100GBE	\$	1,415.54
1061701101-01	56G pluggable I/F for for 64/32G FibreChannel 1310nm, 10km, long reach, SFP56 form factor	\$	5,363.81
1061701103-01	28G pluggable I/F for for 32/16G FibreChannel 1310nm, long reach 10km , SFP28 form factor	\$	1,950.48
1061705929-01	GbE Pluggable, 40km reach, C-Band DWDM network IF with limited tuning range (19200 to 19130), I-temp solution	\$	1,208.19
1061701102-01	56G pluggable I/F for for 64/32G FibreChannel 850nm, short reach, 100m, SFP56 form factor	\$	2,925.71
1061480212-01	QSFP28 100G Ethernet 100GBase-ZR4 SM LC 80km	\$	20,694.86
1061700617-02	112G Pluggable, coherent, C-Band tunable DWDM network IF center frequency from 191.23 to 196.1 THz on a 12.5GHz grid, improved performance and suitable for colorless add/drop	\$	30,490.57
1061701848-01	Bi-Directional SFP+ for Single Fiber Working, Tx:1270nm / Rx:1330nm, short reach 20km	\$	316.95
1061701849-01	Bi-Directional SFP+ for Single Fiber Working, Tx:1330nm / Rx:1270nm, short reach 20km	\$	316.95
1061704499-01	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	966.15
1061705893-01	Bi-Directional SFP for Single Fiber Working, Tx:1550nm / Rx:1490nm, 120km,TIN	\$	289.52
0061704502-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704506-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704510-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704516-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704569-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704523-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704526-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704570-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704508-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704507-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704567-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704529-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704504-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10

1061701116-01	25G Pluggable BIDI 1270 Short reach	\$	1,158.10
1061706191-01	pluggable client I/F for 1470nm, extended ultra long reach, 125Mbit/s only	\$	764.34
1061800724-02	QSFP28-SR4, MPO, 4x28G, 100m, 850nm, grey, 100GBE (requires 802.3bj FEC) and OTN (requires GFEC)	\$	651.09
1061700631-02	CFP2 DWDM C-Band tunable coherent with up to 224Gbit/s, supporting QPSK 100G, 8QAM 200G and 16QAM 200G mode	\$	36,410.30
1061705892-01	Bi-Directional SFP for Single Fiber Working, Tx:1490nm / Rx:1550nm, 120km,TIN	\$	289.52
0061704505-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704518-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704566-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704509-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
1061701119-01	25G Pluggable BIDI 1310 Long reach	\$	1,158.10
1061707599-01	Bi-Directional SFP for Single Fiber Working 1615nm, H channel	\$	2,011.43
1061701118-01	25G Pluggable BIDI 1270 Long reach	\$	1,158.10
1061707600-01	Bi-Directional SFP for Single Fiber Working 1605nm, H channel	\$	2,011.43
1061701117-01	25G Pluggable BIDI 1330 Short reach	\$	1,158.10
1061701126-01	25G Pluggable 1310 Long reach	\$	1,158.10
1061701880-01	XFP based OTDR, 1625nm, one monitoring port, APD version with LC connector	\$	5,363.81
1061800920-01	QSFP-DD-FR4, LC, 4x106G, 2km, CWDM around 1310nm, grey, 400GBE (FEC from host)	\$	6,710.06
1051002703-01	QSFP56-DD Active Optical Cable (AOC), 300 cm, 850nm, grey, 400GBE	\$	8,089.60
1061800930-01	QSFP-DD-LR4, LC, 4x106G, 10km, CWDM around 1310nm, grey, 400GBE (FEC from host)	\$	6,989.64
1061800924-01	QSFP-DD-DR4, MPO, 4x106G, 500m, 1310nm, grey, 400GBE (FEC from host) or 4x 100GE QSFP28-PSM4, MPO, 4x28G, 500m, 4 fibers at 1310nm, grey, 100GBE, OTU4 (PCN 4830 - QuadFlex Support)	\$	6,476.99
1061800753-02		\$	1,598.29
1061705889-01	Bi-Directional SFP for Single Fiber Working, Tx:1310nm / Rx:1490nm, short reach,TIN	\$	78.82
1061705888-01	Bi-Directional SFP for Single Fiber Working, Tx:1490nm / Rx:1310nm, short reach,TIN	\$	91.47
1061800766-01	QSFP 100GE and 40GE SR Bidirectional with 2 wavelengths with LC connector 75m on OM3, 100m on OM4 fiber	\$	2,773.26
1061480096-01	CFP2 100G LR4 SM LC 10km Ethernet, I-temp	\$	5,228.38
0061704503-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
0061704514-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
1061800770-11	QSFP10-LR4, LC, 10km, 4x10G, CWDM, grey, 40GBE and OTU3, OTU3e2	\$	1,559.12
1061800780-11	QSFP10-4LR, MPO, 10km, 4x10G, grey, 10GBE and OTU2	\$	1,296.23
1061800720-11	QSFP28-LR4, LC, 4x28G, 10km, LAN-WDM around 1310nm, grey, 100GBE (no FEC) and OTN	\$	3,047.66
0061704565-04	up to 2.7G Pluggable DWDM I/F, ultra long reach	\$	1,196.10
1061701875-01	Bi-Directional XFP for Single Fiber Working, Tx:1490nm / Rx:1550nm, very long reach	\$	3,406.00
1061701876-01	Bi-Directional XFP for Single Fiber Working, Tx:1550nm / Rx:1490nm, very long reach	\$	3,406.00
1061705886-01	SFP - GigE BiDi 1490nm Singlemode (40km)	\$	239.24
1061705887-01	SFP - GigE BiDi 1310nm Singlemode (40km)	\$	239.24
1061705924-01	GbE Pluggable, 40km reach, C-Band DWDM network IF with limited tuning range (19600 to 19530), I-temp solution	\$	1,208.19
1061705925-01	GbE Pluggable, 40km reach, C-Band DWDM network IF with limited tuning range (19520 to 19450), I-temp solution	\$	1,208.19
1061705926-01	GbE Pluggable, 40km reach, C-Band DWDM network IF with limited tuning range (19440 to 19370), I-temp solution	\$	1,208.19
1061705927-01	GbE Pluggable, 40km reach, C-Band DWDM network IF with limited tuning range (19360 to 19290), I-temp solution	\$	1,208.19
1061705928-01	GbE Pluggable, 40km reach, C-Band DWDM network IF with limited tuning range (19280 to 19210), I-temp solution	\$	1,208.19

1061700632-02	224G Pluggable, coherent, C-Band tunable DWDM network IF center frequency from 191.23 to 196.1 THz on a 12.5GHz grid, improved performance and suitable for colorless add/drop	\$	40,469.73
1061701591-01	11G Pluggable CWDM I/F, very long reach, SFP+ form factor with clock recovery	\$	3,781.22
1061701592-01	11G Pluggable CWDM I/F, very long reach, SFP+ form factor with clock recovery	\$	3,781.22
1061701594-01	11G Pluggable CWDM I/F, very long reach, SFP+ form factor with clock recovery	\$	3,781.22
1061701597-01	11G Pluggable CWDM I/F, very long reach, SFP+ form factor with clock recovery	\$	3,781.22
1061701598-01	11G Pluggable CWDM I/F, very long reach, SFP+ form factor with clock recovery	\$	3,781.22
1061701818-01	10G Pluggable, 40km reach, C-Band DWDM network IF with limited tuning range Band 1 from 19200 to 19280GHz, I-temp solution	\$	2,202.82
1061702407-01	10G Pluggable for third-party equipment (TP), 80km reach, C-Band DWDM tunable, 100GHz spacing with 48 channels, I-temp solution	\$	3,169.52
1061701817-01	10G Pluggable, 40km reach, C-Band DWDM network IF with limited tuning range Band 2 from 19280 to 19360GHz, I-temp solution	\$	2,202.82
1061700632-07	224G Pluggable, coherent, C-Band tunable DWDM network IF center frequency from 191.23 to 196.1 THz on a 12.5GHz grid, improved performance and suitable for colorless add/drop	\$	40,509.52
1061800600-01	QSFP28 112G, 100ZR+ coherent, C-Band tunable DWDM network IF, 0 till 70°C	\$	8,350.48
1061800601-01	QSFP28 112G, 100ZR+, coherent, C-Band tunable DWDM network IF, -40 till 85°C	\$	9,112.38
1061800935-01	448G Pluggable, coherent, 400G OpenZR+ support, increase TX power 0dBm, C-band tunable, network IF center frequency from 191.2375 to 196.1 THz on a 6.25GHz grid.	\$	23,466.67
1061700642-01	448G Pluggable, dual laser variant for single fiber working, coherent, C-Band tunable DWDM network IF center frequency from 191.23 to 196.1 THz on a 12.5GHz grid	\$	40,990.48
1061700631-03	CFP2 DWDM C-Band tunable coherent with up to 224Gbit/s, supporting QPSK 100G, 8QAM 200G and 16QAM 200G mode	\$	36,410.30
1061700632-03	224G Pluggable, coherent, C-Band tunable DWDM network IF center frequency from 191.23 to 196.1 THz on a 12.5GHz grid, improved performance and suitable for colorless add/drop	\$	40,509.52
93000112	ADVA FSP Field Service (on-site support) daily rate		#REF!
7036865001	Packing Option single Item - individual packing		#REF!
7041192001	Ethernet Initial Application		#REF!
7027077001	Ethernet Staging Option Baseline Configuration		#REF!
7022459001	Staging Option Assembled		#REF!
7064071001	Connector Customization Golden Image: design, develop and test of a custom .iso image based on Customer's environment, inclusive of installation instructions. Priced per week.		#REF!
7057539001	Support VNF on-boarding and testing. In addition to on-boarding VNF into Orchestrator and Connector, characterize VNF performance on target hardware platform(s), validate VNF/device interworking and perform basic functional tests. Priced per week.		#REF!
7057541001	Staging: service offering to ship hardware, sourced from ADVA to Customer sites preloaded and tested with verified .iso image. Priced per server.		#REF!
7057544001	Solution Implementation support of the production MANO instance(s), including configuration and verification of end-to-end Ensemble solution. Service can be performed onsite or remote. Priced per week.		#REF!
7075022001	Staging Option Assembled & Configured for OSA Sync Products OSA 5430 / 5440		#REF!
7072518001	Staging Option Assembled for OSA Sync Products OSA 5430 / 5440		#REF!
7078608001	GNSS Assurance Integration Service. Remote integration of 3rd Party devices into ENC GNSS Assurance. Additional up to 50 devices for which GNSS ASSURANCE INTEGRATION has been purchased		#REF!
7078607001	GNSS Assurance Integration Service. Script Development and remote integration of 3rd Party devices into ENC GNSS Assurance. Up to 50 Devices of same type		#REF!
7075311001	Staging Option Assembled & Configured for Ethernet Products (Packet Edge Cloud)		#REF!

93000130	Standard Module Test if no Fault Description available / No Fault Found Fee	\$	626.94
7036308001	OPERATIONAL READINESS FEE	\$	12,212.24
	Resident Engineer provides dedicated engineering support at a single customer site. Responsible for providing solution expertise to customer engineering, Ops, IT & security teams. Details must be agreed in a SOW. (6 month minimum). Priced per month.		
7057549001		\$	43,537.41
7067087001	Disposal of Cesium tube	\$	1,306.12
7076928001	REMOTE LICENSE SUPPORT	\$	1,741.50
7078671001	Ensemble Simulator hosted software service subscription - 12 month period	\$	54,421.77
7047188001	Installing & Operating OSA 54xx Family- Sync Director Product Training. (4.5 day course) Per Student fee.	\$	3,415.49
7047189001	Installing & Operating OSA 54xx Family- Sync Director Product Training. Per Trainer per day fee. Travel expenses included.	\$	4,693.33
7047190001	Installing & Operating OSA 54xx Family- Sync Director Product Training. (4.5 day course). Per course fee.	\$	20,480.00
7047203001	OSA 5548C SSU-5548C TSG Product Training. (2 day course) Per Student fee.	\$	1,562.29
7047208001	Sync / PTP principles Training (1 day course). Per course fee.	\$	4,887.29
7047204001	OSA 5548C SSU-5548C TSG Product Training. (2 day course). Per Trainer per day fee. Travel expenses included.	\$	4,693.33
7047207001	Sync / PTP principles Training (1 day course). Per Trainer per day fee. Travel expenses included.	\$	4,693.33
7047205001	OSA 5548C SSU-5548C TSG Product Training (2 day course). Per course fee.	\$	9,384.51
7047206001	Sync / PTP principles Training. Per Student fee.	\$	782.22
93000360	ACE - ADVA Certified Expert - certification of 1 person- All regions	\$	676.63
7051117001	An Access Link Monitoring Device Training (1 day). Per course fee.	\$	4,693.33
7041312001	Shipping international. Training kit shipping and equipment rental fees. Trainer travel costs are excluded.	\$	5,688.89
7041313001	On-Site travel fees for ADVA Trainer travelling between continents. Includes 5 days cost of accomodation of a Trainer, car rental, allowances and flight cost.	\$	4,977.78
7050509001	ADVA FSP 3000R7 Installation and Commissioning Product Training (2 day course). Per Student fee for an open class calculation.	\$	1,564.44
7050496001	ADVA 300 Agile Connect (4.5 days). FSP 3000R7 w/ROADMs include HD-Slides (update to existing course). Focus should be 9ROADM-RS and MROADM and MAPs; Bpie: ADVA Licensing. Focus should be on NED.	\$	21,120.00
7050498001	ADVA FSP 3000R7 Maintenance and Troubleshooting Product Training (2 day course). Per course fee.	\$	9,386.67
7050499001	ADVA FSP 3000R7 Installation and Commissioning Product Training (2 day course). Per course fee.	\$	9,386.67
7050508001	ADVA FSP 3000R7 Maintenance and Troubleshooting Product Training. (2 day course) Per Student fee for an open class calculation.	\$	1,564.44
7050506001	ADVA 300 Agile Connect (4.5 days). FSP 3000R7 w/ROADMs include HD-Slides (update to existing course). Focus should be 9ROADM-RS and MROADM and MAPs; Bpie: ADVA Licensing. Focus should be on NED.	\$	3,520.00
7042603001	ADVA Ensemble Controller Training (2 day course). Per Course fee.	\$	9,386.67
7042605001	ADVA FSP 150EG-X Training (3 day course). Per Course fee.	\$	14,080.00
7042604001	ADVA Ensemble Controller/ Optical Director Training (3 day course). Per Course fee.	\$	14,080.00
7036042001	ADVA Ensemble Controller/ Optical Director Training. (3 day course) Per Student fee for an open class calculation.	\$	2,346.67
7036046001	ADVA FSP 150EG-X Training. (3 day course) Per Student fee for an open class calculation.	\$	2,346.67
7051118001	An Access Link Monitoring Device Training. (1 day course) Per Student fee for an open class calculation.	\$	782.22

7036044001	On-Site travel fees for ADVA Trainer travelling within Europe or United States. Includes 5 days cost of accomodation of a Trainer, car rental, allowances and flight cost.	\$	3,361.62
7036041001	ADVA Ensemble Controller Training. (2 day course) Per Student fee for an open class calculation.	\$	1,564.44
7036043001	Shipping within EMEA region or route US-CANADA. Training kit shipping and equipment rental fees. Trainer travel costs are excluded.	\$	2,417.78
7059365001	Installing & Operating FSP 3000 Cloud Connect. (3 day course) A training course on ADVA FSP 3000 Cloud Connect using CLI. OpenFabric, QuadFlex and CryptoMux will be covered in detail. Per Student fee for an open class calculation.	\$	2,346.67
7059366001	Installing & Operating FSP 3000 Cloud Connect. (3 day course) A training course on ADVA FSP 3000 Cloud Connect using CLI. OpenFabric, QuadFlex and CryptoMux will be covered in detail. Per course fee.	\$	14,080.00
7061617001	ADVA Customized duration training. Price per trainer day. For Custom class taking place at ADVA location trainer travel costs are already included.	\$	4,693.33
7051119001	e-Learning Smart Hands Single Course License. Per enrolment fee.	\$	70.03
7064075001	Ensemble Virtualization Monitoring & Troubleshooting: classroom session with in depth understanding of monitoring and troubleshooting with the Ensemble software. Price is per course (1 day).	\$	5,925.93
7064076001	Ensemble API Integration training: API considerations when integrating ADVA Ensemble with back-office systems. Price is per course (2 day).	\$	10,235.69
7081313001	OSA Optical Cesium Clock Product Training (6hrs course classrom, 4hrs remote). Per student fee.	\$	586.13
7080803001	FSP 150-XG300 Training (3 day course). Per course fee.	\$	14,080.00
7080802001	FSP 150-XG300 Training (3 day course). Per student fee.	\$	2,346.67
7076192001	Operating HD Hardware in FSP 3000 Agile Connect (DCI) (4 day course). Per course fee.	\$	18,773.33
7072411001	Shipping within APAC region. Training kit shipping and equipment rental fees. Trainer travel costs are excluded.	\$	4,551.11
7075037001	ADVA FSP3000 and Ensemble Controller Product Training. (4 day course) Per student fee.	\$	3,128.89
7076191001	Operating HD Hardware in FSP 3000 Agile Connect (DCI) (4 day course). Per Student fee.	\$	3,128.89
7076193001	Operating HD Hardware in FSP 3000 Agile Connect (Carrier) (4 day course). Per Student fee.	\$	3,128.89
7076194001	Operating HD Hardware in FSP 3000 Agile Connect (Carrier) (4 day course). Per course fee.	\$	18,773.33
7075178001	Advanced OSA 5401-5405 Product Training. (2 day course) Per Trainer day fee.	\$	4,693.33
7075179001	Advanced OSA 5401-5405 Product Training. (2 day course) Per course fee.	\$	9,386.67
7075180001	Advanced OSA 5401-5405 Product Training. (2 day course) Per student fee.	\$	1,564.44
7075181001	Advanced OSA 5430-5440 Product Training. (2 day course) Per Trainer day fee.	\$	4,693.33
7075182001	Advanced OSA 5430-5440 Product Training. (2 day course) Per course fee.	\$	9,386.67
7075183001	Advanced OSA 5430-5440 Product Training. (2 day course) Per student fee.	\$	1,564.44
7075184001	Advanced OSA 541X-542X Product Training. (2 day course) Per Trainer day fee.	\$	4,693.33
7075185001	Advanced OSA 541X-542X Product Training. (2 day course) Per course fee.	\$	9,386.67
7075186001	Advanced OSA 541X-542X Product Training. (2 day course) Per student fee.	\$	1,564.44
7075918001	ENC and ENC SyncDirector for Management and Monitoring of OSA54xx Series Product Training. (1 day course) Per course fee.	\$	4,693.33
7075919001	ENC and ENC SyncDirector for Management and Monitoring of OSA54xx Series Product Training (1 day course) Per student fee.	\$	782.22
7081874001	ACE refresher training for FSP 3000 R7 product line (3 day course). Per course fee.	\$	11,733.32
7072911001	Shipping within US region. Training kit shipping and equipment rental fees. Trainer travel costs are excluded.	\$	1,848.89
7077326001	The class is designed for anyone using Ensemble Packet Director for Management and Monitoring of Ethernet Services	\$	2,346.67



7074989001	ADVA FSP3000 TeraFlex Installation & Operating Product Training. (2 day course) Per course fee.	\$	9,386.67
7077327001	The class is designed for anyone using Ensemble Packet Director for Management and Monitoring of Ethernet Services	\$	391.11
7077189001	e-Learning WDM Fundamentals Single Course License. Per enrolment fee.	\$	70.03
7078590001	e-Learning Ensemble Simulator Single Course License. Per enrolment fee.	\$	70.03
7078879001	ENC Fiber Director Training (1 day course). Per student fee.	\$	782.22
7070818001	Travel onsite - US and Europe rate, otherwise custom quoted. Priced per week.	\$	1,885.52
7070819001	Introduction to NFV and Ensemble Training.	\$	18,747.47
7078589001	e-Learning Ensemble Simulator Single Course License. Per enrolment fee.	\$	70.03
7078591001	e-Learning Ensemble Simulator Single Course License. Per enrolment fee.	\$	70.03
7078878001	ENC Fiber Director Training (1 day course). Per course fee.	\$	4,693.33
7074337001	ADVA FSP 150XG400 Operation and Maintenance Product Training. (3 day course) Per Student fee for an open class calculation.	\$	2,346.67
7075036001	ADVA FSP3000 and Ensemble Controller Product Training. (4 day course) Per course fee.	\$	18,773.33
7074988001	ADVA FSP3000 TeraFlex Installation & Operating Product Training. (2 day course) Per Student fee for an open class calculation.	\$	1,564.44
7070365001	ADVA FSP 150CC Open Introductory Training (3 day course). Per Course fee.	\$	14,080.00
7070366001	ADVA FSP 150CC Open Introductory Training (3 day course). Per Student fee.	\$	2,346.67
7070443001	Operating FSP3000 Agile Connect with High Density Shelf (DCI) (4 day course). Per Student fee.	\$	3,128.89
7072104001	ACE - ADVA Certified Expert - certification of 1 person- All regions	\$	782.22
7081312001	OSA Optical Cesium Clock Product Training (6hrs course classrom, 4hrs remote). Per course fee.	\$	3,516.78
7070444001	Operating FSP3000 Agile Connect with High Density Shelf (DCI) (4 day course). Per course fee.	\$	18,773.33
7072410001	ADVA FSP 150 Advanced Course. Price per day.	\$	4,693.33
7074338001	ADVA FSP 150XG400 Operation and Maintenance Product Training. (3 day course) Per course fee.	\$	14,080.00
7057534001	Develop and document minimum viable product requirements of the intended deployment architecture including the network design and configuration guidelines, security requirements, etc. in advance of implementation. (Senior engineer). Priced per hour.	\$	296.30
7022458001	Planning Service - Hourly rate	\$	355.56
7022290001	ADVA Project/Program Manager hourly rate	\$	355.56
7064072001	Technical Support in Customer's lab to validate final deployment configuration prior to production roll out. Can be provided with onsite and/or remote support. Priced per hour.	\$	269.36
7057537001	Project Manager to develop a project plan (Gantt chart), establish regular cross-functional meetings, provide regular status reports and manage the project action register throughout the project lifecycle. Priced per week.	\$	6,464.65
7075661001	Develop and document minimum viable product requirements of the intended deployment architecture including the network design and configuration guidelines, security requirements, etc. in advance of implementation. (Senior engineer). Priced per week.	\$	10,774.41
7075309001	Project Management: Appointment of a senior Project Manager to guide and manage activities throughout the ADVA deployment project lifecycle. Required for complex integrated solution deployments	\$	183.16
7075310001	Build and test Network Service Templates (NSTs) for initial launch services based on Customer service offering(s). Priced per day.	\$	2,154.88

7075662001

Technical Support in Customer's lab to validate final deployment configuration prior to production roll out. Can be provided with onsite and/or remote support. Priced per week.

\$ 9,696.97