XP6164S | 1514349



CommScope FLX[™] OLT shelf, 1RU 19" rack mounted hardened multiprotocol enabling virtual control management 10G XPON deployment strategies with GPON, XGS PON and Combo capability in remote facilities, hubs and cabinets in distributed architectures

PRELIMINARY SPECIFICATION

The CommScope FLX[™]XP6164S Shelf OLT is a standard 1RU 19" rack mounted hardened multi-protocol OLT enabling both centralized and distributed access PON deployment strategies. The shelf OLT is suitable for installation intoCommScope cabinets, hub sites or other plant or premise locations, enabling subscriber access via PON connectivity with a field hardened dense platform. The Shelf OLT allows operators to serve customers at distances well beyond the typical centralized PON reach by utilizing standard long-haul uplink optics to connect to the S-Leaf switch/router in their Converged Interconnect Network (CIN) or core transport network.

The Shelf OLT is specifically designed for cable operators with special consideration for evolvingnetwork needs as operators are turning to distributed access architecture models, wheredeployment flexibility in the plant is key. The remote OLT (R-OLT) incorporates full IPv4/IPv6 traffic management and PON MAC/PHY capabilities in a compact hardened form factor, enabling network operators to substantially increase the ROI of their existing installed fiber base by addinghigh bandwidth 10G PON based services where their subscribers are located.

The Shelf OLT is equipped with sixteen 10G PON ports, each supporting standard GPON at2.5/1.25 Gbps and XGS-PON at 10/10 Gbps or 10/2.5 Gbps. Future software releases will support all EPON modes including symmetric 10/10 Gbps, symmetric 1/1 Gbps and turbo 2/1 Gbps.

On the network uplink side, the module provides standard 100GE transport backhaul via available long-reach transceivers supporting the deployment of PON services deeper in the existing plant infrastructure.

Key features of the XP6164S :

- The new CommScope FLX Shelf OLTprovides deep reach of FTTX commercial and residential services well beyond thetypical 20 km PON deployment range,utilizing long distance uplink optics for installation in remote facilities, hubs, cabinets and customer premises in distributed architectures
- Standard 100 Gigabit Ethernet (GE) optical interfaces support upstream connection to the Converged Interconnect Network(CIN) network along with the option to stack or ring multiple shelf OLT chassis for architectural flexibility
- The 16 subscriber access ports supportmultiple PON technologies: ITU-T G.984GPON (2.5G/1.25G), ITU-T G.9807.1 XGSPON (10G /10G, 10G/2.5G), IEEE 802.3ah EPON (1G/1G, 2G/1G), and IEEE 802.3av10G EPON (10G/10G)
- The Shelf OLT supports multiple management system options and utilizes standardized interfaces for control planeand provisioning operations including the CommScope server-based OLT Manager(vOLT) application and SDN style PON Domain Controller in addition to direct interface to third party SDN controllers and telemetry collectors
- The hardened 1RU Shelf OLT form factor is designed for installation in Commscope cabinet systems and features hot swappable power entry modules and fan-trays, with all service and maintenance interfaces front panel accessible

FLX Virtual OLT (vOLT) :

The CommScope FLX™OLT Manager is a vOLT application supporting software-defined networking (SDN) that separates the managementplane from the control and data planes found in the physical network function (PNF) of the Shelf OLT. By centralizing the control plane, the vOLT facilitates network management and programmability to improve scalability of operating multiple disaggregated

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network deviceslike Shelf OLT, thus simplifying and reducing the number of interface points to operator back-office systems.

Key features of theFLX Virtual OLT (vOLT) :

- Seamless integration of the management and assurance of multipleShelf OLTs resulting in a fully managed service deployment usingexisting operational production processes and procedures
- Full lifecycle management of multiple R-OLT shelves from initial deployment through the application of services and subscriber provisioning, and integration into monitoring and network operational support systems.
- For GPON and XGS-PON based PON services, integration into the northbound provisioning and management systems
 Full standard based interfaces to northbound SDN and telemetry gathering applications

Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Product Type	OLT shelf
Product Brand	CommScope FLX™
General Specifications	
Ports, Network Side	CommScope qualified SFP+ transceivers are purchased separately Four (4) LC- Duplex network side optical ports (NSI Port 0 – NSI Port 3) Supports QSFP28 (100 Gbps) cages for standard uplink applications
Ports, Subscriber Side	CommScope qualified XFP transceivers are purchased separately Requires external splitters Sixteen (16 SC/UPC) simplex bidirectional subscriber-side optical SFP+ ports (PON 0 - PON 15) Supports IEEE 802.3av 10G EPON 10/10 Gbps symmetrical and 10/1 Gbps asymmetrical, IEEE 802.3ah 2.5 (Turbo)/1 Gbps, and 1/1 Gbps, ITU-T G. 984 GPON 2.5/1.25 Gbps and ITU-T G.9807 XGS-PON 10/10 Gbps symmetrical and
Provisioning and Monitoring	OLT Manager application: Operator-based virtualized Shelf OLT lifecycle manager and provisioning system interface for Optical Network Units (ONUs)
System Compatibility	CommScope provides available qualified field-hardened optical modules for PON and NSI interfaces The XP6164 Shelf OLT can be installed into any new or existing networking facilities, mini-hub, hub, or street
Dimensions	
Height	38.1 mm 1.5 in
Width	444.5 mm 17.5 in
Depth	264.16 mm 10.4 in
Electrical Specifications	
Electrical Safety Standard	CAN/CSA-C22.2 No. 60950-1-07+Amd 1+Amd 2 CAN/CSA-C22.2 No.60950-22- 07+GI1 (R2012) EN 60950-1:2006+A11+A12+A2 EN 60950-22: 2006+A11 EN60825-1,-2 IEC 60950-1:2005+A1+A2 IEC 60950-22: 2005 IEC/EN 60825-1:2014 IEC/EN 60825-2:2004+A1+A2 TUV EN 6-950- 1 UL 60950-1-07+A1+A2 UL 60950-22:2007 R12.11

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Electromagnetic Compatibility (EMC)	CFR 47 Part 15, Subpart B, Class A CISPR 24 IEC/EN 55024 CISPR 32 IEC/EN 55032 VCCI A VCCI B VCCI V-32-1
Power Requirements	Optional -48VDC / +120VAC / +240VAC
Environmental Specifications	
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	5%–95%, non-condensing
Standards Compliance	IEC 60529, IP43 IEC 60529, IP54
Packaging and Weights	

Weight, net

7.711 kg | 17 lb

Regulatory Compliance/Certifications

Classification

Agency

ROHS

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system Compliant





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