

LT6320X XG(S)-PON Combo OLT Datasheet

Product overview:

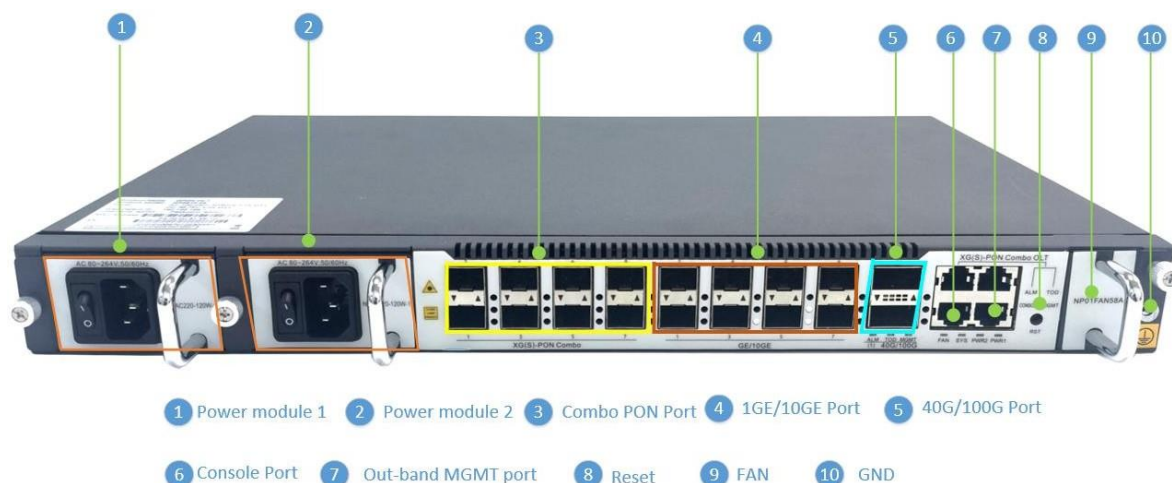


LT6320X OLT is a highly integrated, large-capacity XG(S)-PON OLT for operators, ISPs, enterprises, and campus applications. The product follows the ITU-T G.987/G.988 technical standard, and can be compatible with three modes of G/XG/XGS at the same time. The asymmetric system (up 2.5Gbps, down 10Gbps) is called XGPON, and the symmetric system (up 10Gbps, down 10Gbps) is called XGSPON. The product has good openness, strong compatibility, high reliability and complete software functions, Together with the optical Network unit (ONU), it can provide users with broadband, voice, video, surveillance and other comprehensive service access. It can be widely used in operators' FTTH access, VPN, government and enterprise park access, campus network access, ETC. XG(S)-PON OLT provides higher bandwidth. In application scenarios, service configuration and O&M completely inherit GPON.

LT6320X is only 1U in height, easy to install and maintain, and save space.

Supports mixed networking of different types of ONUs, which can save a lot of costs for operators.

Front View of LT6320X-08



Label	Connector Type	Connector Description
100G 1-2	QSFP28	Connect to external uplink equipment
10GE/GE 1-8	SFP	Connect to external uplink equipment
XGSPON COMBO 1-8	SFP+	XGS-PON COMBO service port
MGMT	RJ45	The out-band management port
CONSOLE	RJ45	The software debug port
ALM	RJ45	4*external alarm input
TOD	RJ45	1*1PPS+TOD input

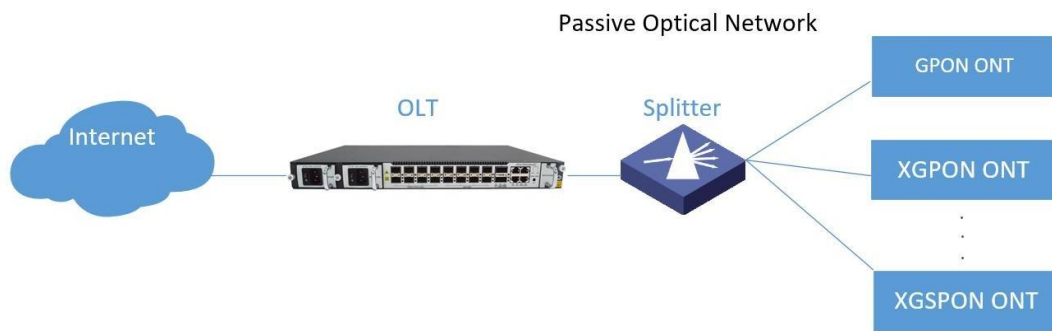
Operating Status LEDs

The operation status of PU181X can be determined by using the front LED. The panel LED indicator will display the status of each interface. The meaning of LED is shown in the following table.

LEDs/Buttons	Color	Function	Description	
SYS	Green	System running status	Green OFF	The device is not running or power off.
			Green Flash	The device is running normally.
ALM	Red	Critical alarms	ON	Critical alarms are reported for the card.
			OFF	No critical alarm is reported for the card.
ETH	Green	Port status	ON	The link is properly connected (link up) and in action
			OFF	The link is interrupted (link down).
TOD	Green	Port status	ON	The link is properly connected (link up) and in action
			OFF	The link is interrupted (link down).
FAN	Green	Fan running status	ON	FAN is running normally.
			OFF	FAN is running abnormally.
100GE 1-2	Green	Port status	ON	The link is properly connected (link up) and in action
			OFF	The link is interrupted (link down).
10GE/GE 1-8	Green	Port status	ON	The link is properly connected (link up) and action
			OFF	The link is interrupted (link down).
Power Supply 1-2	Green	Power status	ON	The AC/DC power module is normal.
			OFF	The AC/DC power module faulty or unavailable Note: PWR1 indicates the left power card, and PWR2 indicates the right power card.
XG(S)PON&G PON COMBO 1~8	Green	PON port status	ON	At least one ONU has been successfully registered.
			OFF	No ONU has been successfully registered.
RST	N/A	Reset button	Long press on the RST button for to restart the equipment.	

XG-PON System reference model

The XG-PON system usually consists of the OLT at the office side, the ONU and the ODN at the user side, and adopts a point-to-multipoint network structure. The ODN consists of single-mode optical fibers and passive optical devices such as optical splitters and optical connectors. It provides the optical transmission medium for the physical connection between the OLT and ONU.



Main Feature

- Comply with ITU-T G.984/987/G.988 technical standards, with good connectivity capabilities;
 - Pon port can support GPON/XGPON/XGSPON three modes
 - Rich Layer 2/3 switching features and Flexible management methods
 - Support multiple link redundancy protocols such as FlexLink/STP/RSTP/MSTP/ERPS/LACP
 - Support RIP、 OSPF、 BGP、 ISIS and IPV6
 - Support Power redundancy backup, Modular power supply, Modular fans supply
 - Support ONT power failure alarm
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Product specifications

Attributes	LT6320X-08 XG(S)-PON Combo OLT
Exchange capacity	720Gbps
Packet forwarding rate	535.68Mpps
Memory and storage	memory: 2GB, storage: 8GB
Management port	Console, MGMT
Port	8*XG(S)-PON/GPON Combo port, 8*10GE/GE SFP + 2*100G QSFP28
PON	<p>Comply with ITU-T G.987/G.988 standard;</p> <p>Wavelength of GPON : 1490nm downstream and 1310nm upstream;</p> <p>Wavelength of XGPON : 1577nm downstream, 1270nm upstream;</p> <p>PON Speed: GPON Down 2.48832Gbps, Up 1.24416Gbps; XGPON: Down 9.95328Gbps ,Up 2.48832Gbps. XGSPON: Down 9.95328Gbps ,Up 9.95328Gbps;</p> <p>Distance :</p> <p style="padding-left: 40px;">XGPON supports a maximum distance of 100KM logical distance, 40KM physical distance, and 40KM differential distance;</p> <p style="padding-left: 40px;">GPON supports a maximum distance of 60KM logical distance, 20KM physical distance, and 20KM differential distance;</p> <p>Splitting Ratio:</p> <p style="padding-left: 40px;">PON port 1:256 Maximum spectral ratio, GPON 1:128, XGPON/XGSPON 1:128;</p> <p>Standard OMCI management function;</p> <p>Open to any brand of ONT ;</p> <p>ONU batch software upgrade;</p> <p>PON module adapts to standard 20PIN SFP+ package module;</p>
VLAN	<p>Support 4K VLAN</p> <p>Support Vlan based on port, MAC and protocol</p> <p>Support dual Tag VLAN, port-based static QinQ and flexible QinQ</p>
MAC	<p>128K Mac address</p> <p>Support static MAC address setting</p> <p>Support black hole MAC address filtering</p> <p>Support port MAC address limit</p>

ring network protocol	<p>Support STP/RSTP/MSTP</p> <p>Support ERPS Ethernet ring network protection protocol</p> <p>Support Loopback-detection port loopback detection</p>
port control	<p>Support two-way bandwidth control</p> <p>Support port storm suppression</p> <p>Support 9K Jumbo ultra-long frame forwarding</p>
Port aggregation	<p>Support static link aggregation</p> <p>Support dynamic LACP</p> <p>Each aggregation group supports a maximum of 8 ports</p>
Mirroring	<p>Support port mirroring</p> <p>Support stream mirroring</p>
ACL	<p>Support standard and extended ACL</p> <p>Support ACL policy based on time period</p> <p>Provide flow classification and flow definition based on IP header information such as source/destination MAC address, VLAN, 802.1p, ToS, DSCP, source/destination IP address, L4 port number, protocol type, etc.</p>
QoS	<p>Support flow rate limiting function based on custom business flow</p> <p>Supports mirroring and redirection functions based on custom business flows</p> <p>Support priority marking based on custom service flow, support 802.1P, DSCP priority Remark capability Support port-based priority scheduling function, support queue scheduling algorithms such as SP/WRR/SP+WRR</p>
Safety	<p>Support user hierarchical management and password protection</p> <p>Support IEEE 802.1X authentication</p> <p>Support Radius&TACACS+ authentication</p> <p>Support MAC address learning limit, support black hole MAC function</p> <p>Support port isolation</p> <p>Support broadcast message rate suppression</p> <p>Support IP Source Guard Support ARP flood suppression and ARP spoofing protection</p>
Layer 3	<p>Support ARP learning and aging</p> <p>Support static route</p> <p>Support dynamic route RIP/OSPF/BGP/ISIS</p> <p>Support VRRP</p>

System management	CLI, Telnet, WEB, SNMP V1/V2/V3, SSH2.0 Support FTP,TFTP file upload and download Support Sntp Support LLDP neighbor device discovery protocol Support RFC 3164 Syslog Support Ping and Traceroute
Environment temperature	Working Temperature: -10°C ~ 55°C Storage temperature: -40°C ~ 70°C
environment humidity	Operating humidity: 10% ~ 95% (non-condensing) Storage humidity: 10% ~ 95% (non-condensing)
environment friendly	RoHs
weight	6.5KG
fan	Modular fans supply (3)
power	AC: 100 ~ 240V 47/63Hz; DC : 36V ~ 75V;
Power consumption	90W
Dimensions	440*270*44mm(Width * height * depth)

Purchasing Information

Product name	Product description
LT6320X-08	8*XG(S)-PON/GPON port, 8*10GE/GE SFP + 2*100G QSFP28, Dual power with optional



DWDM.ME
Your optical mind

E-mail:
sales@dwdm.me
support@dwdm.me

Phone number:
+372 501 9216

12915 Tallinn,
Estonia



Contact us:
dwdm.me