

SPECSHEET

U10 XG(S)PON OLT



Description

U10 XG(S)PON is a high-density standalone OLT in 1U pizza box format. It adopts advanced technology and ASIC chip. It is fully compliant with ITU-T G.9807 (XGS-PON) and ITU-T G.987 (XG-PON) standards, can interwork with different types of ONUs from different vendors. It provides two modes of bandwidth access: Asymmetric mode and Symmetrical mode. It is suitable for deployment in scenarios with high bandwidth requirements such as carrier networks, FTTx, and enterprise networks.

U10 provides 1*GE (RJ45) + 4*25GE (SFP28) + 2*100GE (QSFP28) uplink ports for full line-speed data forwarding; it has 8*XG(S)-PON downlink interfaces with a maximum splitting ratio of 1:256 to access the user's ONU. The device is easy to install and commissioning, minimizing operators' investment.

Specifications

Uplink Port	QTY	8
	RJ45(GE)	1
	SFP28(25GE)	4
	QSFP28(25GE/50GE/100GE)	2
PON Port	QTY	8
	Physical Interface	SFP+ Slots
	Connector Type	XG(S)-PON mode: Class N1/N2 GPON mode: Class B+/C/C+/C++/C+++/C++++
	Max Splitting Ratio	1:256 (maximum); 1:128 (recommended)
Management Ports		1*10/100/1000BASE-T out-band port, 1*CONSOLE port, 1*USB3.0, 1*Type-C USB console, 1*MicroSD port
Backplane Bandwidth (Gbps)		1960
Port Forwarding Rate (Mpps)		566.928
XG(S)-PON Port Specification	Transmission Distance	20KM
	XG(S)-PON Port Speed	XG-PON: Upstream 2.5Gbps, Downstream: 10Gbps XGS-PON: Upstream 10Gbps, Downstream: 10Gbps
	Wavelength	Upstream: 1270nm; Downstream: 1577nm
	Supported PON ports	PON 1~8 (8 PON ports are in XG(S)-PON mode by default)
GPON Port Specification	Transmission Distance	20KM
	GPON Port Speed	Upstream: 1.244Gbps, Downstream: 2.488Gbps
	Wavelength	Upstream: 1310nm, Downstream: 1490nm
	Supported PON ports	PON 1~8 (Each PON port can be manually hot switch to GPON mode)
Lightning Protection	Power Lightning Protection	6KV
	Interface Lightning Protection	4KV
Power Supply	AC	Working Voltage Range: 100~240V, Rated Voltage: 110V/220V
Number of Fans		4
Management Mode		CLI (Console/Telnet/SSH)/WEB/SNMP(EMS)

Management Function	• SNMP, Telnet, CLI, WEB, SSH v2 • Fan Group Control • Port Status monitoring and configuration management • Online ONT configuration and management • User management • Alarm management
Layer2 Switch	• 32K Mac address • Support 4096 VLANs • Support port VLAN • Support VLAN tag/Un-tag, VLAN transparent transmission • Support VLAN translation and QinQ • Support storm control based on port • Support port isolation • Support port rate limitation • Support 802.1D and 802.1W • Support static LACP, Dynamic LACP • QoS based on port, VID, TOS and MAC address • Access control list • IEEE802.x flow control • Port stability statistic and monitoring
Multicast	• IGMP snooping • 2048 IP Multicast Groups
DHCP	• DHCP server, DHCP relay, DHCP snooping • DHCP option82
Layer 3 Route	• ARP proxy • 4096 hardware Host Routes, 512 hardware Subnet Routes • Support 802.1X, Radius, Tacacs+ • Support IP source guard • Support static route, dynamic route RIP v1/v2, RIPvng and OSPF v2/v3;
IPv6	• Support NDP; • Support IPv6 Ping, IPv6 Telnet, IPv6

	- routing; • Support ACL based on source IPv6 address, destination IPv6 address, L4 port, protocol type, etc. • Support MLD v1/v2 snooping
PON Function	• T-CONT DBA • x-GEM traffic • In compliant with ITU-T G.9807(XGS-PON) and ITU-T G.987(XG-PON) • Up to 20KM transmission Distance • Support data encryption, multi-cast, port VLAN, separation, RSTP, etc. • Support ONT auto-discovery/link detection/remote upgrade of software • Support VLAN division and user separation to avoid broadcast storm • Support power-off alarm function, easy for link problem detection • Support broadcasting storm resistance function • Support port isolation between different ports • Support ACL and SNMP to configure data packet filter flexibly • Specialized design for system breakdown prevention to maintain stable system • Support RSTP, IGMP Proxy
Working Environment	• Temperature: -20°C ~ +60°C • Humidity: 5%~95%(non-condensing)
Storage Environment	• Temperature: -40 ~ +85°C • Humidity: 5%~95% (non-condensing)
Dimension (L*W*H)	• 442mm*330mm*43.6mm • Net weight of single power: 4.2KG
Power Consumption	• 150W