

XG(S)-PON Combo OLT Datasheet

GP5810-08 Series

Product Overview

GP5810 series 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 it can be compatible with three modes of G/XG/XGS at the same time. The asymmetric system (up 2.5Gbps, down 10Gbps) and the symmetric system (up 10Gbps, down 10Gbps). The device 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, which can be widely used in operators' FTTH access, VPN, government and enterprise park access, campus network access, etc.

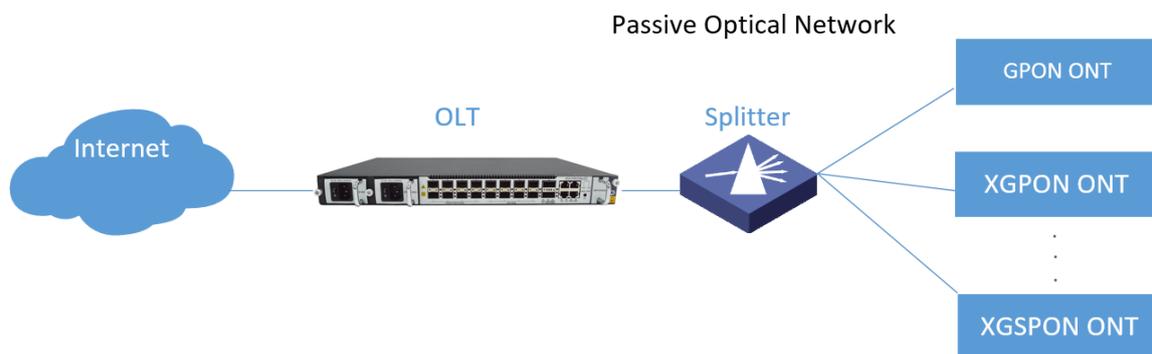
XG(S)-PON OLT provides higher bandwidth, in-application scenarios, service configuration and O&M completely inherit GPON.



GP5810-08 XG(S)-PON Combo OLT

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

- 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
- Safe DDOS and virus attack protection
- Support Power redundancy backup, Modular power supply, Modular fans supply
- Support Power Failure Alarm

Hardware Specifications

Attributes	XG(S)-PON Combo OLT
Interface	8*XG(S)-PON/GPON port, 8*10GE/GE SFP + 2*100G QSFP28
Exchange Capacity	720Gbps
Packet Forwarding Rate	535.68 Mpps
Memory and Storage	Memory: 2GB, Storage: 8GB
Chip Solution	Broadcom BCM6865
Management Port	Console
PON	<p>Comply with ITU-T G.987/G.988 standard</p> <p>40KM Physical differential distance, 100KM transmission logical distance</p> <p>Support 1:128 spectroscopic ratio, supports 1024 GPON/XGPON ONT access</p> <p>Standard OMCI management function</p> <p>Open to any brand of ONT & ONU batch software upgrade</p>
Environment Temperature	<p>Working Temperature: -10°C ~ 55°C</p> <p>Storage temperature: -40°C ~ 70°C</p>
Environment Humidity	<p>Operating Humidity: 10% ~ 95% (non-condensing)</p> <p>Storage Humidity: 10% ~ 95% (non-condensing)</p>
Environment Friendly	RoHs, EEE
Weight	6.5KG
Power	<p>AC: 100 ~ 240V 47/63Hz;</p> <p>DC: 36V ~ 75V;</p>
Power consumption	90W
Dimensions (Width * height * depth)	440*270*44mm

Software specifications

Attributes	XG(S)-PON Combo OLT
VLAN	Support 4K VLAN Support VLAN based on port, MAC and protocol Support dual Tag VLAN, port-based Static QinQ and Flexible QinQ
MAC	128K Mac address Support static MAC address setting Support black hole MAC address filtering Support port MAC address limit
Ring Network Protocol	Support STP/RSTP/MSTP Support ERPS Ethernet ring network protection protocol Support Loopback-detection port loopback detection
Port Control	Support two-way bandwidth control Support port storm suppression Support 9K Jumbo ultra-long frame forwarding
Port Aggregation	Support static link aggregation Support dynamic LACP Each aggregation group supports a maximum of 8 ports
Mirroring	Support port mirroring Support stream mirroring
ACL	Support standard and extended ACL Support ACL policy based on time period 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.
QoS	Support flow rate limiting function based on custom business flow Supports mirroring and redirection functions based on custom business flows 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
Safety	Support user hierarchical management and password protection Support IEEE 802.1X authentication Support Radius & TACACS+ authentication Support MAC address learning limit, support black hole MAC function Support port isolation Support broadcast message rate suppression Support IP Source Guard Support ARP flood suppression and ARP spoofing protection Support DOS attack and virus attack protection
Layer 3	Support ARP learning and aging Support static route Support dynamic route RIP/OSPF/BGP/ISIS Support VRRP CLI、Telnet、WEB、SNMP V1/V2/V3、SSH2.0

System management	Support FTP, TFTP file upload and download Support RMON Support SNMP Support system work log Support LLDP neighbor device discovery protocol Support 802.3ah Ethernet OAM Support RFC 3164 Syslog Support Ping and Traceroute
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Purchasing Information

Product name	Product description
GP5810-08	8*XG(S)-PON/GPON port, 8*10GE/GE SFP + 2*100G QSFP28, Dual power with optional