

8 Port 10G XGSPON OLT

with 2x 100G QSFP28, 4x 10G/25 SFP28 and 1x 1G RJ45 Uplink ports

XGSPON OLT-8XGS

airlive®



Support 2048
ONU**

8x
PON Port

1x 1G RJ45
Gigabit Uplink

XG-PON
XGS-PON
ONU

2x 100G QSFP28
4x 10/25G SFP28
Uplink

Fiber
Optical 20KM

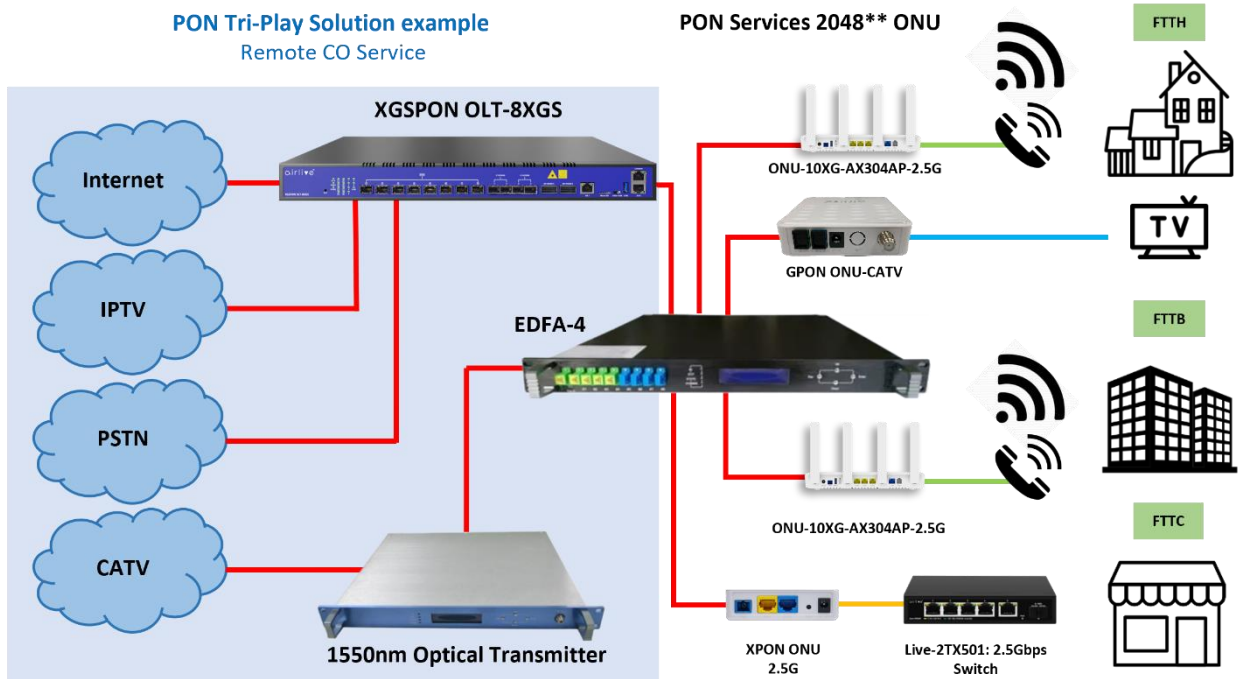
Compliant ITU-T
G.987/9807
standard

ONU auto
discovery link

Overview

The XGSPON OLT-8XGS is a XG(S)-PON OLT that caters to new optical fiber communication networks. It conforms to international standards like ITU-T G.9807 (XGS-PON) and ITU-T G.987 (XG-PON) and supports two bandwidth access modes: 1. Asymmetric mode with 2.5Gbps upstream and 10Gbps downstream speed, and 2. Symmetrical mode with 10Gbps upstream and downstream speeds. It also support ITU-T G.984 (GPON) making triple mode possible. It is an ideal fit for high-bandwidth scenarios such as carrier networks, FTTx, and enterprise networks. The compact 1U chassis of the XGSPON OLT-8XGS makes it easy to deploy in tight spaces. Its Broadcom + NXP chipset solution ensures a robust performance. The OLT-8XGS boasts many ports, providing 2x 100G QSFP28, 4x 10/25G SFP28 and 1x 1G RJ45 uplink ports for full line-speed data forwarding. It also offers 8 XG(S)-PON downlink interfaces with a splitting ratio of 1:256** to access the user's ONT. This device is designed for use with applications the require the new higher data transfer speeds. To use XG(S)/GPON The Airlive XGS-PON/GPON Combo N2/C+ SFP+ module is needed. When using this module, the autosensing function in the OLT will set the correct speed for the connected XG/XGS/GPON ONU. All can used at the same time on a single PON port.

— Optical Line — Coaxial Line
— Telephone Line — RJ-45 Line



Highlight Feature

- Supports XGS-PON/XG-PON/GPON triple mode.
- GPON ONU: Upstream 1.2Gbps, Downstream: 2.5Gbps
- XG-PON ONU: Upstream 2.5Gbps, Downstream: 10Gbps
- XGS-PON ONU: Upstream 10Gbps, Downstream: 10Gbps
- 8 SFP+ PON ports, 2x 100G QSFP28, 4x 10/25G SFP28, 1x 1G RJ45, 1U 19"
- each PON port supports up to 256 ONUs, total up to 2048 ONUs**

8 Port 10G XGSPON OLT

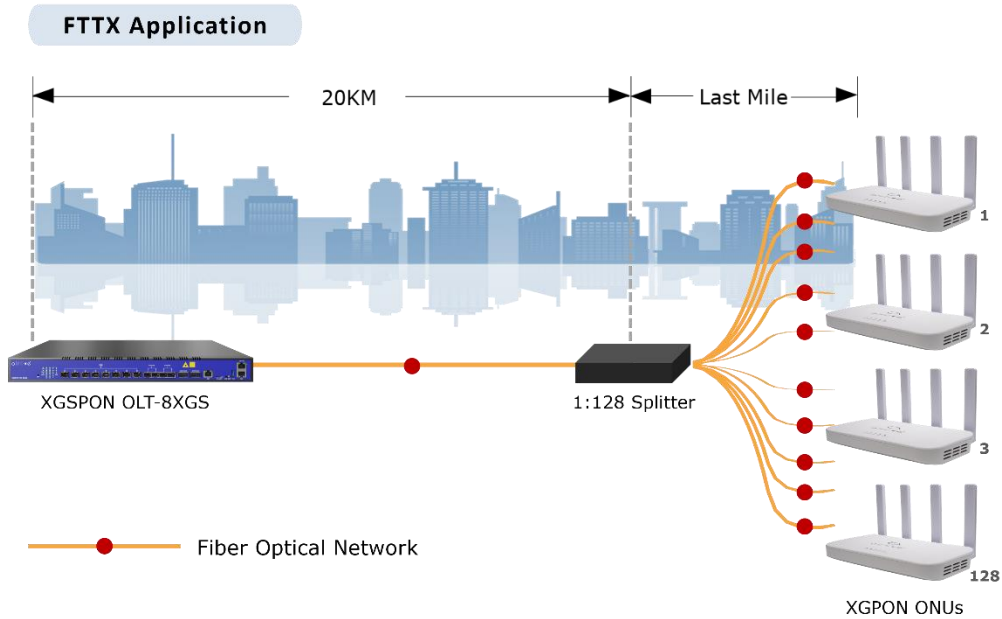
with 2x 100G QSFP28, 4x 10G/25 SFP28 and 1x 1G RJ45 Uplink ports



XGSPON OLT-8XGS

FTTX Application

XGSPON OLT-8XGS offers a complete, end-to-end network infrastructure application products for FTTX networks. From the CO to the customer premises, regional carriers, independent operators, municipalities, Multiple System Operators (MSOs), utilities, and developers worldwide have tapped the experience and innovation to build their FTTX networks.



High-speed and Long-distance Coverage for Triple Play Services

The XGSPON OLT-8XGS offers a robust solution for providing high-speed and long-distance coverage in triple play service applications such as HDTV, IPTV, voice-over-IP (VoIP), and multimedia. It supports downstream bandwidths of up to 10 Gbps and upstream bandwidths of 10 Gbps, enabling fast and reliable data transmission. With a coverage range of up to 20km between equipment nodes, the OLT-8XG is a cost-effective access technology that offers flexibility for network deployment. Its reliable and scalable network ensures a seamless and efficient experience for users. When using the Airlive XGSPON/GPON Combo N2/C+ SFP+ PON Module, XG/XGS and GPON onu's can all be connected to a single PON port allowing you more connection freedom.



XG(S)PON/GPON Port SFP+

10/25G SFP28

100G QSFP28

USB3.0 Port
USB Type C Port
Micro SD

10/100/1000 RJ-45 Port

Console Port
AUX Port

| Model | 8 Port 10G XGSPON OLT with 2x 100G QSFP28 |
|---|--|
| <p>Device Interface</p> <ul style="list-style-type: none"> • PON Port: 8x XG(S)-PON (SFP+) N2/C+ • Uplink: 1x 1G RJ45 • Uplink: 4x 10/25G SFP28 • Uplink: 2x 100G QSFP28 • Console: 1x 10/100/1000BASE-T out-band port, 1x Console RJ45 port, 1x USB-COM Type C USB Console port, 1x USB3.0 Port, 1x MicroSD slot • Fiber Type: 9/125µm SMF • Connector: SC/UPC • PON Port TX Power: GPON: +3dBm ~ +7dBm, XG(S)PON +4dBm ~ +7dBm • PON Port RX Sensitivity: XGS-PON: -28dBm, XG-PON: -29.5dBm, GPON: -32dBm • PON Port Saturation Optical Power: XGS-PON: -7dBm, XG-PON: -9dBm, GPON: -12dBm • Supported ONUs: 2048** • PON port speed: GPON ONU: Upstream 1.244Gbps, Downstream: 2.488Gbps XG-PON ONU: Upstream 2.488Gbps, Downstream: 9.953Gbps XGS-PON ONU: Upstream 9.953Gbps, Downstream: 9.953Gbps • Wavelength: XG(S)-PON TX 1577nm, RX 1270nm GPON TX 1490nm, RX 1310nm • Max splitting ratio: 1:128 (module based)** • Transmission Distance: 20KM • Backplane Bandwidth: 1960Gbps • Port Forwarding Rate: 566.928Mpps • Management Mode: CLI: (Console/Telnet/SSH), WEB • Lightning protection level: Power supply 6KV/Device Interface 4KV <p>Firmware features</p> <ul style="list-style-type: none"> • Management Function: SNMP, Telnet, CLI, WEB, SSH v2 Fan Group Control Port Status monitoring and configuration management Online ONU configuration and management User management Alarm management • Layer2 Switch: 32K Mac address Support 4096 VLANs Support port VLAN and protocol VLAN Support VLAN tag/Un-tag, VLAN transparent transmission Support VLAN translation and QinQ | <ul style="list-style-type: none"> 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 <p>Multicast</p> <ul style="list-style-type: none"> IGMP Snooping 2048 IP Multicast Groups <p>DHCP</p> <ul style="list-style-type: none"> DHCP server, DHCP relay, DHCP snooping DHCP option82 <p>Layer 3 Route</p> <ul style="list-style-type: none"> 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 <p>IPv6</p> <ul style="list-style-type: none"> 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(Multicast Listener Discovery snooping) <p>PON Function</p> <ul style="list-style-type: none"> T-CONT DBA x-GEM traffic In compliant with ITU-T G.9807 (XGS-PON), ITU-T G.987 (XG-PON) and with ITU-T G.984 (GPON). Support Up to 20KM transmission distance Support data encryption, multi-cast, port VLAN, separation, RSTP, etc. Support ONU 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. |

* Specification will be changed without prior notice

* All trademarks, logos and brand names are the property of their respective owners.



| Model | 8 Port 10G XGSPON OLT with 100G QSFP28 |
|--|---|
| <p>Power</p> <ul style="list-style-type: none">• 1x AC 100~240V, 50/60Hz (Default)• 2x AC 100~240V, 50/60Hz (Option) <p>Power Consumption</p> <ul style="list-style-type: none">• Power Usages Max: 150W <p>Environment</p> <ul style="list-style-type: none">• Operating Temperature: -20°C to +60°C• Storage Temperature: -40°C to +70°C• Operating Humidity: 5%~95%, non-condensing• Storage Humidity: 5%~95%, non-condensing• MTBF: 200000 hrs. <p>Standard package of OLT</p> <ul style="list-style-type: none">• Product size: 44.2 x 33.0 x 4.36cm (L*W*H)• Package size: cm (L*W*H)• Package Weight: N.W: 4.8kg; G.W: kg (Single Power)• Package content: 1 x Device, 1 x Power cord, Installation Kits, 1 x QIG. <p>Standard carton package</p> <ul style="list-style-type: none">• Quantity: pcs / 1 carton• Dimensions cm (L*W*H)• Weight kg (G.W) <p>Ordering Information</p> <ul style="list-style-type: none">• Model: XGSPON OLT-8XGS• Name: AirLive XGSPON OLT-8XGS 8 Port 10G XGSPON OLT with 2x 100G QSFP28, 4x 10/25G SFP28, 1x 1G RJ45 | <p>**NOTE**</p> <p>**The OLT-8XGS supports GPON, XG-PON and XGS-PON triple play. The AirLive XG(S)PON/GPON Combo OLT SFP+ N2/C+ PON module is recommended to be used. All 3 modes can run at the same time.**</p> <p>**The Max Splitting ratio is 1:256 for the OLT PON Port. But the XG/XGS/GPON Combo N2/C+ SFP+ PON module is currently limited to 1:128. This means only 128 XG/XGS ONU's can be connected per PON port.**</p> |

* Specification will be changed without prior notice

* All trademarks, logos and brand names are the property of their respective owners.

