

2 Port 10G XGSPON OLT with 10G SFP+

XGSPON OLT-2XGS

airlive®



Support 256
ONU

2x
XG(S)PON Port

2x
Gigabit
Uplink

XG-PON
XGS-PON
ONU

Redundant
Power
(Option)

2x
10GE(SFP+)
Uplink

Fiber
Optical 20KM

Compliant ITU-T
G.987/9807
standard

ONU auto
discovery
link

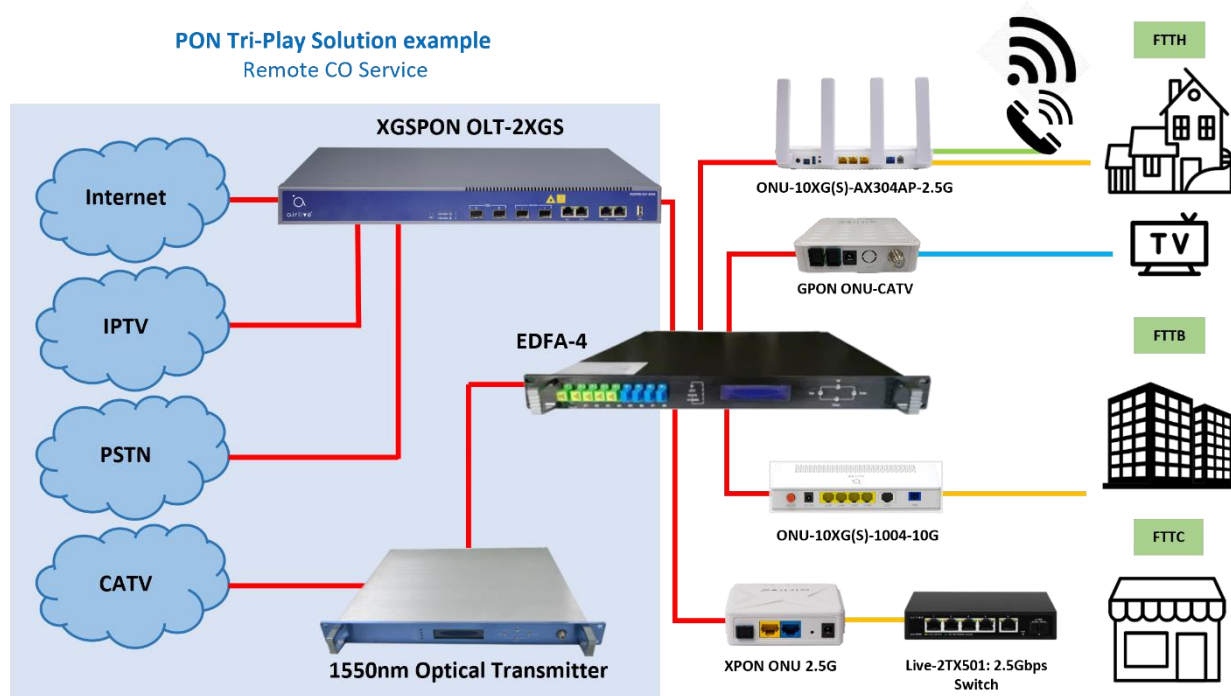
Overview

The AirLive XGSPON OLT-2XGS is a recently launched 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). It is an ideal fit for high-bandwidth scenarios such as carrier networks, FTTH, and enterprise networks. The compact 1U chassis of the XGSPON OLT-2XGS makes it easy to deploy. Its Broadcom + NXP chipset solution ensures a robust performance.

The XGSPON OLT-2XGS boasts many ports, providing 2*GE (RJ45) + 2*10GE (SFP+) uplink ports for full line-speed data forwarding. It also offers 2 XG(S)-PON downlink interfaces with a splitting ratio of 1:128 to access the user's ONT. This device is designed for use in FTTH (Fiber-to-the-Home) and small business applications the require the new higher data transfer speeds. To use XG/XGS PON a XG/XGS PON SFP+ module is needed. To use GPON a GPON PON SFP module is needed. The OLT can only work with a single PON mode selected either XG or XGS or GPON.

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

PON Tri-Play Solution example
Remote CO Service



OLT-2XGS Supports XG(S) PON and GPON. PON Mode depends on PON module used and PON mode selected in OLT.
Only 1 PON Mode can be used at any one time.

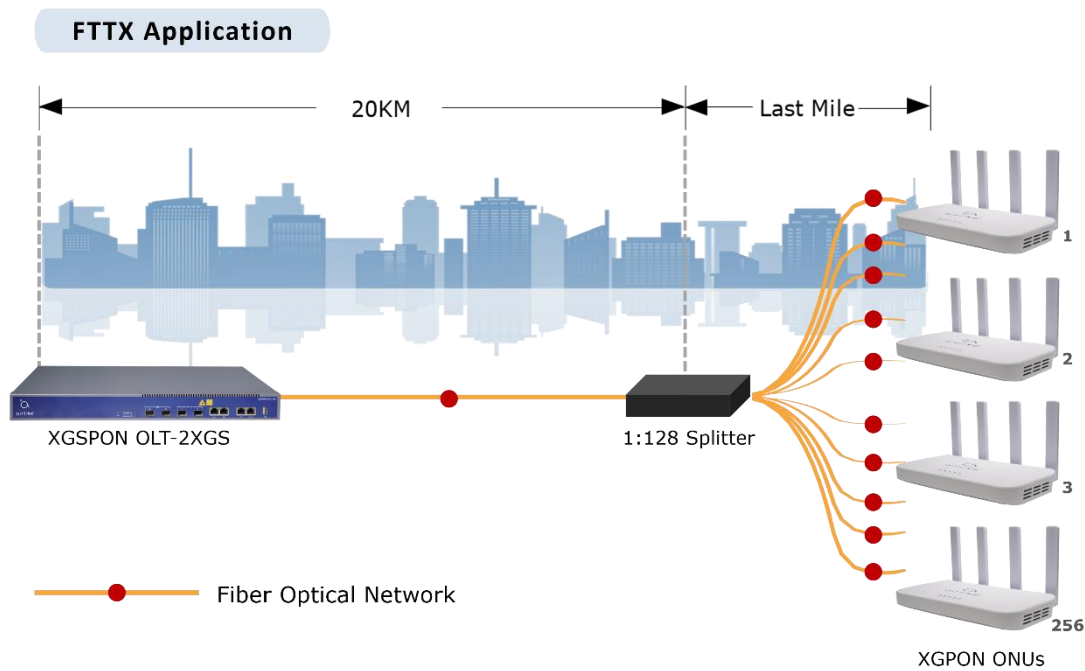
Highlight Feature

- GPON ONU: Upstream 1.2Gbps, Downstream: 2.5Gbps
- XG-PON ONU: Upstream 2.5Gbps, Downstream: 10Gbps
- XGS-PON ONU: Upstream 10Gbps, Downstream: 10Gbps
- 2 PON ports, 2*SFP+ 10G, 2*RJ45 1G, 1U 19"
- each PON port supports up to 128 ONUs, total up to 256 ONUs**

**The PON mode needs to be selected in the Webui either GPON or XG-PON or XGS-PON Mode also depends on the PON module used.

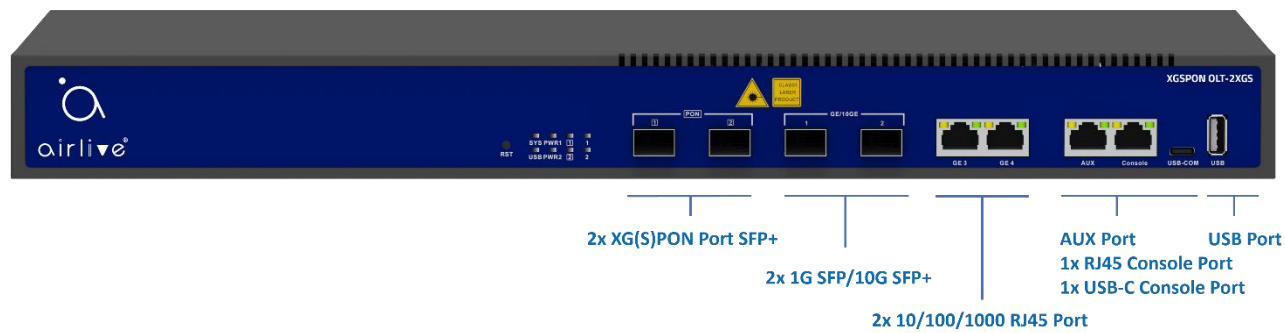
FTTX Application

XGSPON OLT-2XGS 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-2XGS 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-2XGS 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.



Model	2 Port 10G XGSPON OLT with 10G SFP+
Device Interface • PON Port: 2x XG(S)-PON (SFP+) • Uplink: 2x 1G RJ45 • Uplink : 2x 10G SFP+ • Console: 1x 10/100/1000BASE-T out-band port, 1x Console RJ45 port, 1x Console USB-COM Type C port, 1x USB2.0 port • Fiber Type: 9/125µm SMF • Connector: SC/UPC • Supported ONUs: 256** • 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: 208Gbps • Port Forwarding Rate: 124.992Mpps • Management Mode: WEB, Telnet, CLI • Mechanical: Solid metal 19" 1U rack-mountable Firmware features • Management Function: Telnet, CLI, WEB Fan Group Control Port Status monitoring and configuration management Online ONU configuration and management User management Alarm management • Layer2 Switch: 16K 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 1K L2 Multicast Groups 1K L3 Multicast Groups DHCP DHCP server, DHCP relay, DHCP snooping DHCP option82 Layer 3 Route ARP proxy 16K hardware Host Routes, 1024 hardware Subnet Routes Support static route 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 (Multicast Listener Discovery snooping). PON Function T-CONT DBA GEMport traffic In compliance 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.

* Specification will be changed without prior notice

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Model	2 Port 10G XGSPON OLT with 10G SFP+
Power • 1x AC 100~240V, 50/60Hz (Default) • 2x AC 100~240V, 50/60Hz (Option) • 1x AC 100~240V, 1x DC 48V (Option) • 2x DC 48V (Option) Power Consumption • Power Usages Max: 40W Environment • Operating Temperature: -20°C to +60°C • Storage Temperature: -40°C to +70°C • Relative Humidity: 5%~95%, non-condensing • MTBF: 200000 hrs. Standard package of OLT • Product size: 44.2 x 20.0 x 4.36cm (L*W*H) • Package size: 57.5 x 38.0 x 11.5cm (L*W*H) • Package Weight: N.W: 2.485kg; G.W: 3.895kg (Single Power) • Package content: 1 x Device, 1 x Power cord, Installation Kits, 1 x QIG. Standard carton package • Quantity: pcs / 1 carton • Dimensions 57.5 x 38.0 x 11.5cm (L*W*H) • Weight 3.895kg (G.W) Ordering Information • Model: XGSPON OLT-2XGS • Name: AirLive XGSPON OLT-2XGS 2 Port 10G XGSPON OLT with 10G SFP+	**NOTE** **The OLT-2XGS supports GPON or XG-PON or XGS-PON. Select the PON mode in the Webui of the OLT. Only 1 mode can be used at any given time. For XG or XGS-PON the AirLive XG(S)PON OLT SFP+ N1 module must be used. For GPON a GPON module like the GPON OLT SFP C++++ must be used.** **The Max Splitting ratio is 1:256 for the XG/XGS OLT PON Port. But the XG/XGS PON module is currently limited to 1:128. This means only 128 XG/XGS ONU's can be connected per PON port.**

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