

1 Port 10G XGSPON OLT

with 1x 10G SFP+, 2x 1G RJ45 Uplink ports

XGSPON OLT-1XGS

airlive®



Support 128
ONU

Single Combo
PON Port

2x 1G RJ45
Gigabit Uplink

G-PON
XG(S)-PON
ONU

1x 10G SFP+
Uplink

Fiber
Optical 20KM

ONU auto
discovery link

Compliant ITU-T
G.984 /G.987/9807
standard

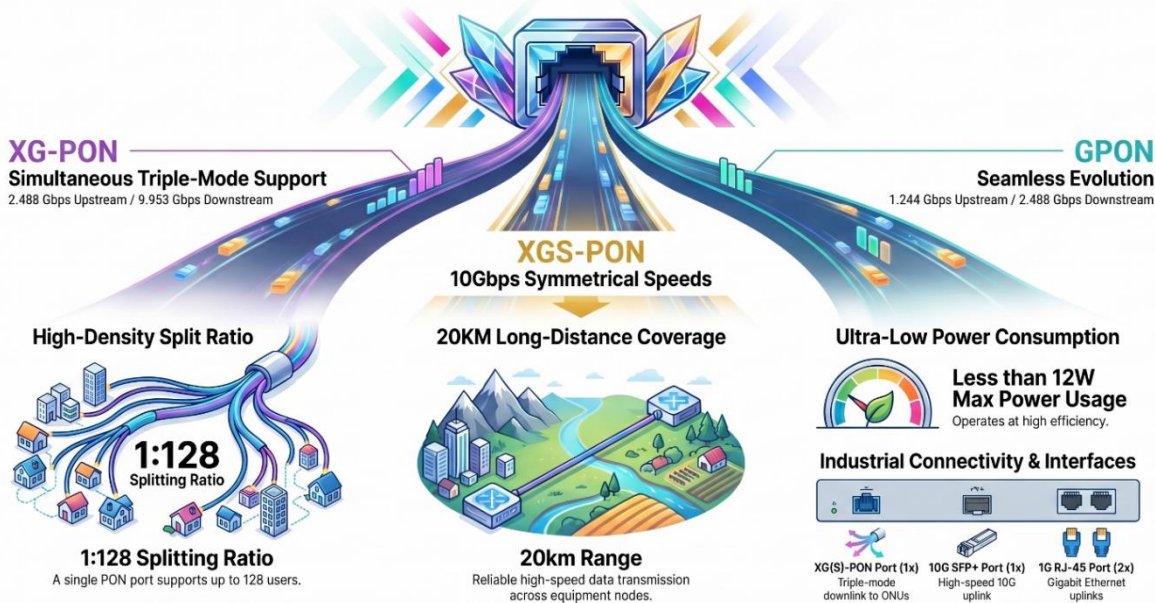
GPON to XG/XGS-PON: Seamless Evolution in a Single Port.

The AirLive XGSPON OLT-1XGS is an innovative 10G OLT product with a single PON port and XG (S) - PON&GPON Combo compatibility, giving you more networking possibilities and facilitating the flexibility to choose the appropriate bandwidth access mode according to current application conditions and future business upgrades. In the early stage of construction, you can choose to consider reducing investment costs and use only GPON ONUs connected to the PON port and then switch to XG(S)-PON&GPON Combo mode according to business needs in the future. This then offers a smooth upgrade from GPON to XG(S)-PON. Combo mode can also be directly offered in a new building setup, both GPON and XG(S)PON ONU's can be installed at the same time offering clients in the building internet at different price points according to their needs, but with the option to upgrade to a higher speed in the future. It is an ideal fit for high-bandwidth small to medium-scale scenarios such as upscale apartments, high-end SOHO and premium office, FTTx, and local building networks.

Powered by an enterprise-grade Realtek chipset, this ultra-compact edge solution is engineered to fit seamlessly into space-constrained central offices and POP sites. The OLT-1XGS comes with 1x 10G SFP+ and 2x 1G RJ45 uplink ports for full line-speed data forwarding. The single PON port has a splitting ratio of 1:128 to access the user's ONT. The OLT-1XGS conforms to international standards like ITU-T G.9807 (XGS-PON), ITU-T G.987 (XG-PON) and ITU-T G.984 (GPON).

Think of it like an optical prism: using a Combo module, a single fiber handles three network generations at once. You 100% protect past GPON investments while seamlessly delivering 10G speeds over the exact same line. From a monetization standpoint, XGS-PON delivers true symmetric 9.953 Gbps speeds. Eliminating the upstream bottleneck gives you a powerful competitive edge. Is your edge network truly 10G ready? Don't let legacy infrastructure limit your business growth. Upgrade smartly with the AirLive XGSPON OLT-1XGS.

AirLive XGSPON OLT-1XGS: The Future of Fiber in One Port



Highlight Feature

- Supports XGS-PON/XG-PON/GPON Triple mode.
- 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

- 1 PON port, 1x 10G SFP+, 2x 1G RJ-45
- PON port supports up to 128 ONUs
- Support WAN, NAT

1 Port 10G XGSPON OLT

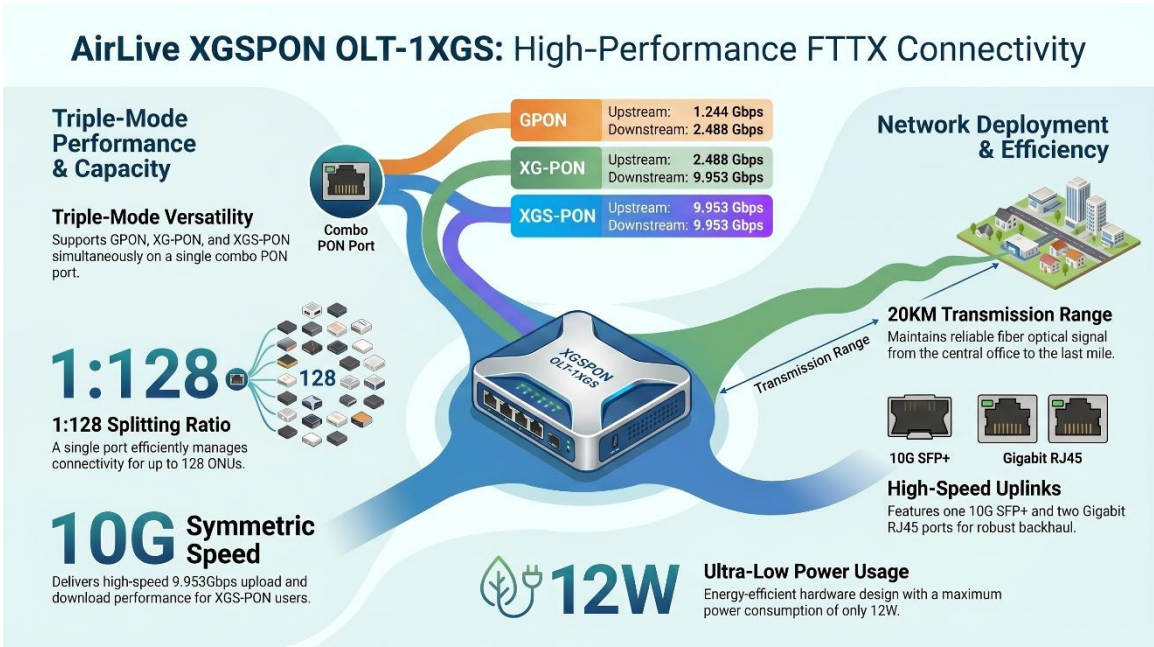
with 1x 10G SFP+, 2x 1G RJ45 Uplink ports

XGSPON OLT-1XGS



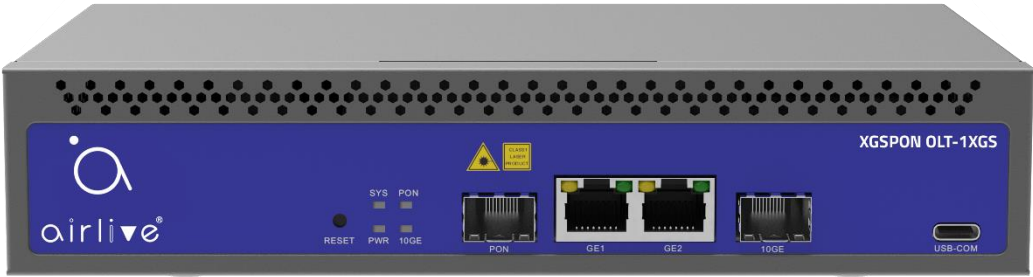
FTTX Application

The XGSPON OLT-1XGS 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.

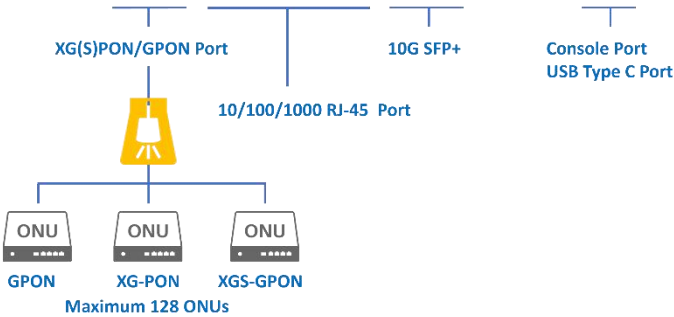


High-speed and Long-distance Coverage for Triple Play Services

The XGSPON OLT-1XGS 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-1XGS 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 XG(S)PON/GPON Combo N2_C+ PON Module, XG/XGS and GPON onu's can all be connected to a single PON port allowing you more connection freedom.



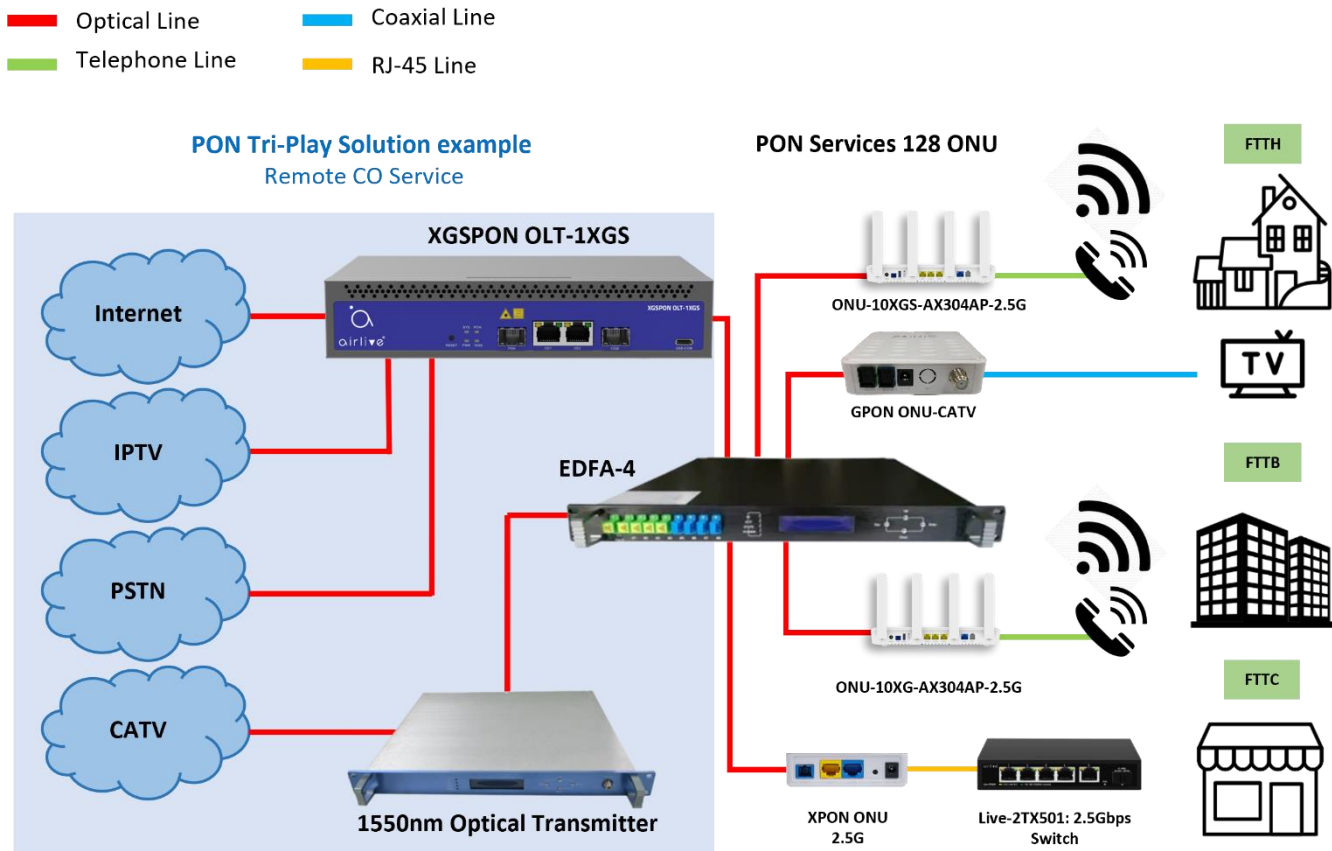
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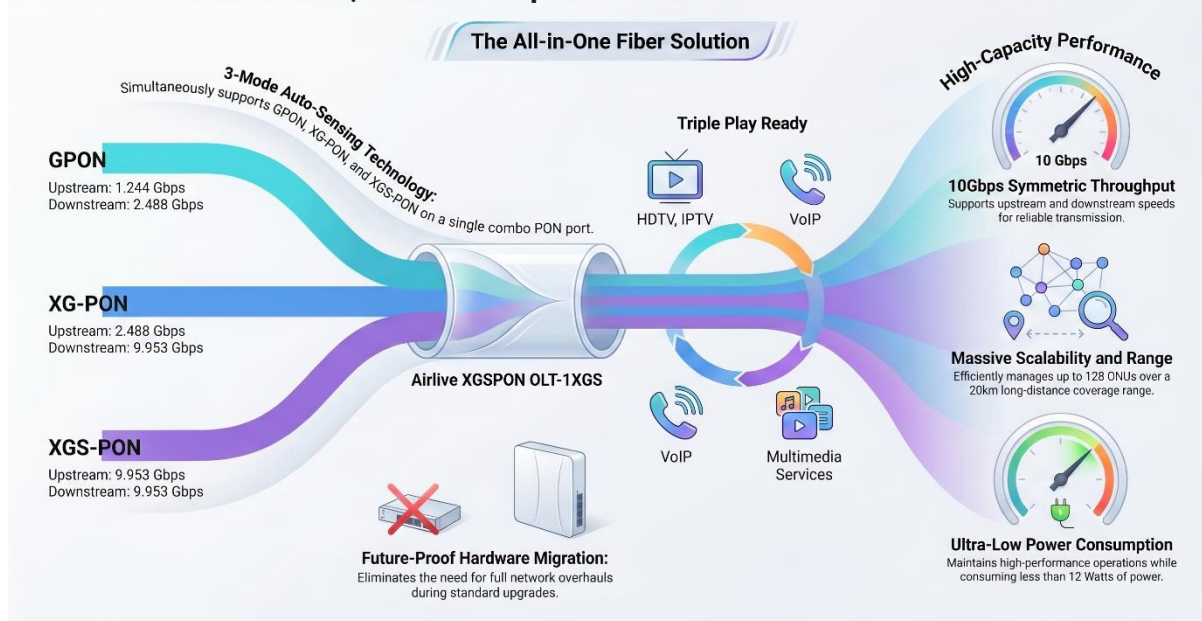
XGSPON OLT-1XGS

Full Integration

The XGSPON OLT-1XGS offers a complete, end-to-end network infrastructure application products for FTTH networks. Combined with the other AirLive Telecom and Network products it offers a complete solution for SOHO and Medium businesses.



Unified Fiber, Unlimited Speed: The Airlive XGSPON OLT-1XGS



Model	1 Port 10G XGSPON OLT with 1x 10G SFP+
Device Interface • PON Port: 1x XG(S)-PON N2_C+ SFP+ • Uplink: 2x 1G RJ-45 • Uplink: 1x 10G SFP+ • Console: 1x USB-COM Type C USB Console port • Connector: XG(S)-PON&GPON Combo mode: N2_C+ • Supported ONUs: 128 • 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 • Transmission Distance: 20KM • Backplane Bandwidth: 30Gbps • Port Forwarding Rate: 44.64Mpps • Management Mode: WEB/Telnet/CLI/SNMP • Lightning protection level: Power supply 6KV/Device Interface 4KV Firmware features • Management Function: SNMP, Telnet, CLI, WEB Port Status monitoring and configuration management Online ONU configuration and management User management Alarm management • Layer2 Switch: 8K MAC address Support 4096 VLANs Support port VLAN Support VLAN tag/Un-tag, VLAN transparent transmission Support VLAN translation, QinQ and P2P Support storm control based on port Support port isolation Support port rate limitation Support 802.1D and 802.1W Access control list IEEE802.x flow control Port stability statistic and monitoring	Multicast IGMP Snooping 256 IP Multicast Groups DHCP Support DHCP server, DHCP relay, DHCP snooping Support DHCP option82 Support DHCPv6 server, DHCPv6 relay Layer 3 Route Support Dynamic/Static ARP Support WAN (DHCP/PPPOE/Statics) Support static routing, NAT, DMZ Support QoS based on DSCP, MAC, IP, L4 port, protocol Support ACL based on Source MAC address, Source IP address, Source L4 port, Destination IP address, Destination L4 port, Protocol type IPv6 Support IPv6 Ping, IPv6 Telnet, IPv6 routing; Support ACL based on source MAC address, Source IPv6 address, Source L4 port, Destination IPv6 address, Destination L4 port, Protocol type Support IPv6 SLAAC Support MLD v1/v2 snooping (Multicast Listener Discovery snooping) PON Function 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 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.

* Specification will be changed without prior notice

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AirLive

Model	1 Port 10G XGSPON OLT with 10G SFP+
Power - AC 100~240V, 50/60Hz (Default) - DC 12V/1A (Optional) Power Consumption Power Usages Max: ≤12W Environment 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. Standard package of OLT Product size: 21.0 x 17.3 x 4.36cm (L*W*H) Package size: cm (L*W*H) Package Weight: N.W: 1.07kg; G.W: kg (Single Power) Package content: 1 x Device, 1 x Power cord, Installation Kits, 1 x QIG. Standard carton package Quantity: pcs / 1 carton Dimensions cm (L*W*H) Weight kg (G.W) Ordering Information Model: XGSPON OLT-1XGS Name: AirLive XGSPON OLT-1XGS 1 Port XGSPON OLT with 1x 10G SPF+, 2x 1G RJ-45 Ports	**NOTE** **The OLT-1XGS supports GPON, XG-PON and XGS-PON Triple play. The AirLive XG(S)-PON/GPON Combo Pon module which comes with the OLT is recommended to be used. All 3 modes can run at the same time.** 

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