

# 1 PON Ports GPON OLT with 10G SFP+

GPON OLT-121

airlive®



Support  
128  
GPON ONU

10GE(SFP+)  
Uplink

GPON Module  
Built in

Fiber  
Optical  
20KM

2X  
Gigabit  
WAN

compliant  
ITU-Tg984.x  
standard

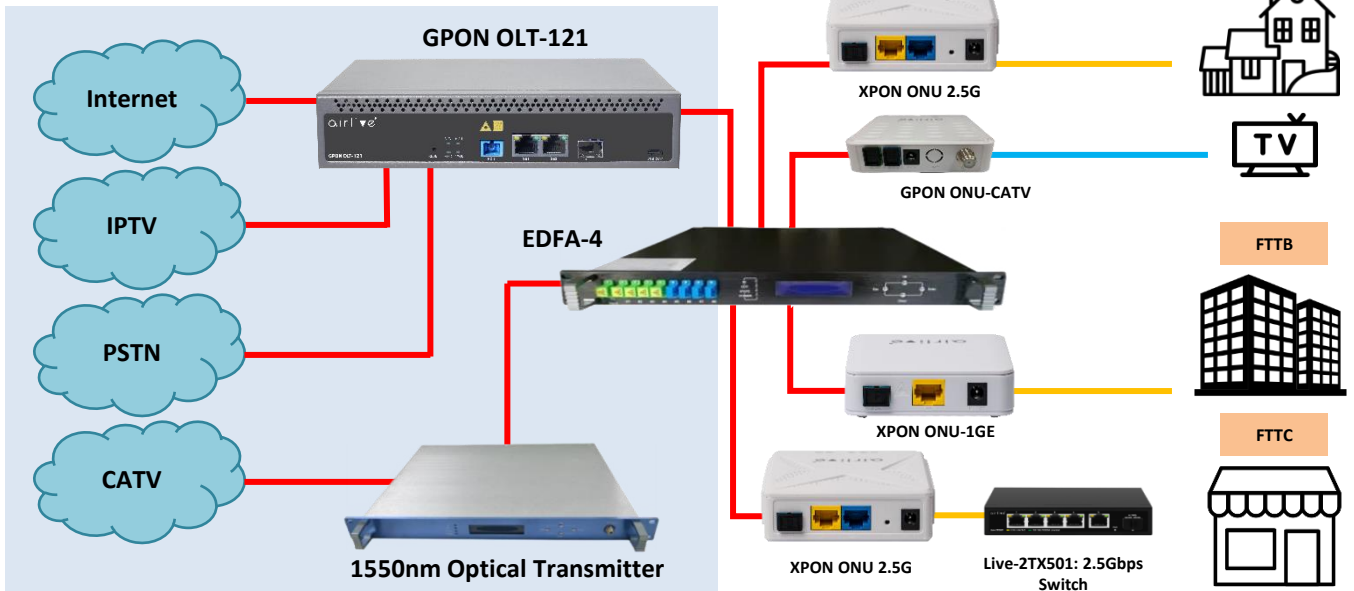
1.25Gbps  
Uplink  
2.5Gbps  
Downlink  
ONU auto  
discovery  
link

## Overview

Revolutionize Your Network with AirLive GPON OLT-121 Built-in GPON module for lightning-fast speeds, enhanced reliability, and streamlined network management. Benefits for Your Business Plug and play, Built-in GPON Transmitter. Ease of Installation, Designed with simplicity in mind, the GPON OLT-121 can be set up quickly, reducing downtime and operational costs. Interoperability: Complies with ITU-T G.984/G.988 standards, ensuring compatibility with other GPON-compliant equipment. Cost-Effective: A cost-efficient solution that offers flexibility for network deployment without compromising on quality or performance. The AirLive GPON OLT-121 is not just a product; it's a promise of reliability, efficiency, and high performance for your network. Embrace the future of connectivity and give your customers the experience they deserve. The GPON OLT-121 can manage up to 128 ONU devices in a fiber broadband network. Its ease of installation and maintenance make it an attractive option for small to medium-sized deployments. The GPON OLT-121 is designed for use in FTTH (Fiber-to-the-Home) and small business applications with its single PON port with a splitting ratio of 1:128. It can transmit data up to a distance of 20KM and has high uplink and downlink bandwidth capabilities of 1.25Gbps/2.5Gbps. It also includes a 10G SFP+ Uplink port.

Optical Line      Coaxial Line  
Telephone Line      RJ-45 Line

### PON Tri-Play Solution example Remote CO Service



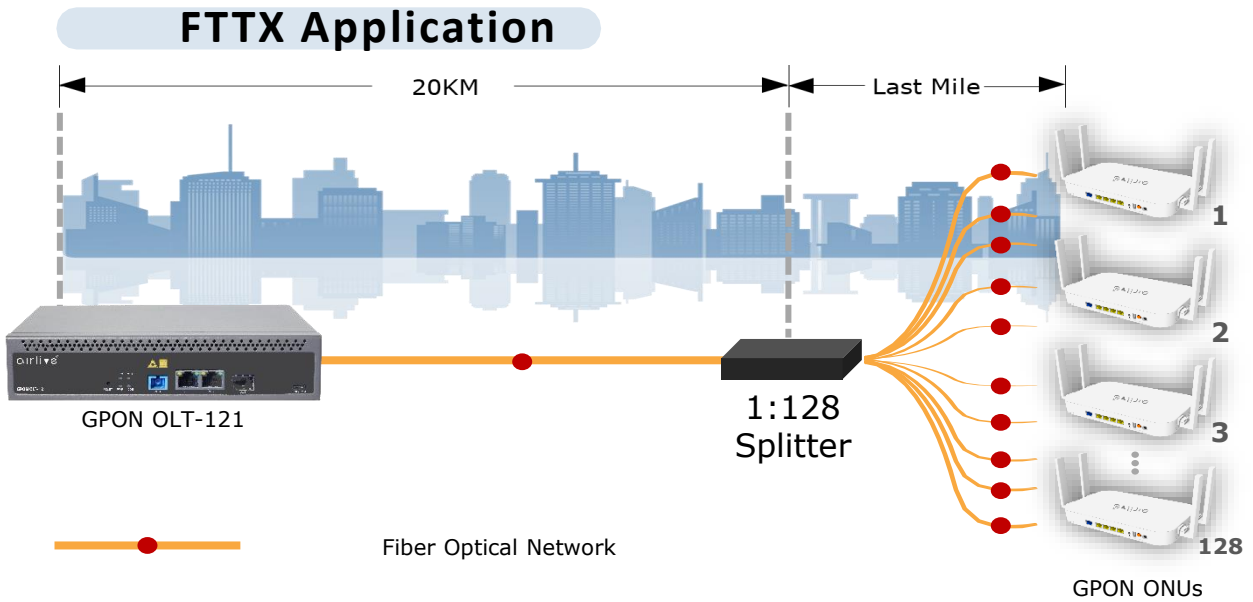
GPON OLT-121 Services Max 128 ONU

## Highlight Feature

- Built-in PON optic module
- 1 PON port, 1\*SFP/SFP+ 10G, 2\*RJ45 1G
- Upstream 1.244Gbps, Downstream 2.488Gbps
- Single PON port supports up to 128 ONUs

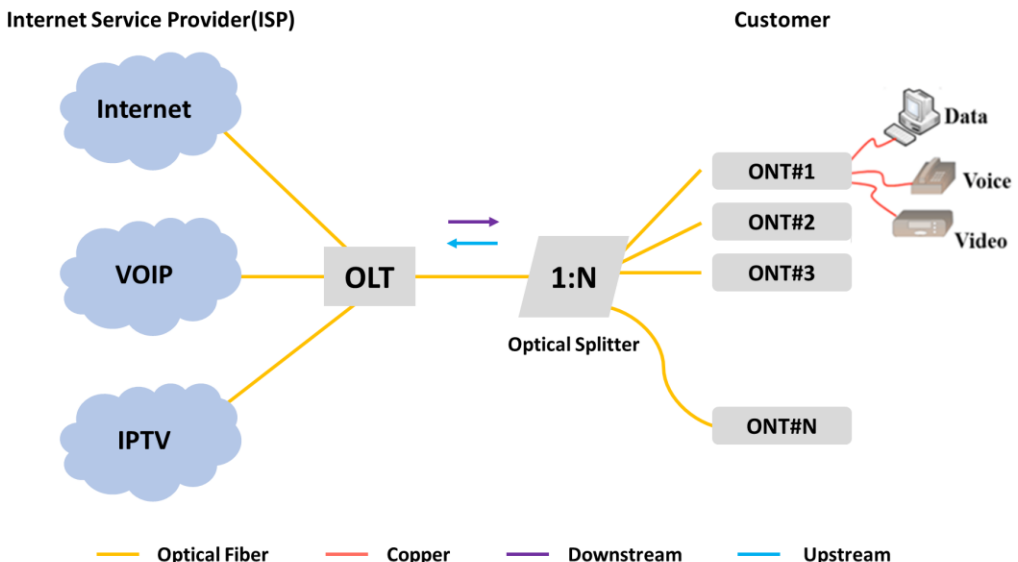
### FTTX Application


GPON OLT-121 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 GPON OLT-121 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 2.5Gbps and upstream bandwidths of 1.25Gbps, enabling fast and reliable data transmission. Capable of transmitting data up to a distance of 20KM, it's perfect for expansive network deployments. Scalable Network Management: Manage up to 128 ONU devices with ease, making it an ideal solution for growing network infrastructures. Its reliable and scalable network ensures a seamless and efficient experience for users. Future-Proof Technology: Equipped with a 10G SFP+ uplink, the device is ready to handle the increasing demands of next-generation network applications.



Model	1 PON Ports GPON OLT with 10G SFP+
<p><b>Device Interface</b></p> <ul style="list-style-type: none"><li>• <b>PON Port:</b> 1x 1.25Gbps/2.5Gbps</li><li>• <b>Uplink:</b> 2x 1G RJ45</li><li>• <b>Uplink:</b> 1x 10G SFP+</li><li>• <b>Console:</b> 1 x USB-COM Type C port</li><li>• <b>Fiber Type:</b> 9/125µm SM</li><li>• <b>Connector:</b> SC/UPC, TX&gt;8±0.5dBm, Sen: -32dBm</li><li>• <b>Support ONUs:</b> 128</li><li>• <b>GPON port speed:</b> Upstream 1.244Gbps, Downstream 2.488Gbps</li><li>• <b>Wavelength:</b> TX 1490nm, RX 1310nm</li><li>• <b>Max splitting ratio:</b> 1:128</li><li>• <b>Transmission Distance:</b> 20KM</li><li>• <b>Backplane Bandwidth:</b> 29Gbps</li><li>• <b>Port Forwarding Rate:</b> 21.576Mpps</li><li>• <b>Management Mode:</b> Console/WEB/Telnet/CLI/SNMP</li><li>• <b>Lightning protection level:</b> Power supply 4KV/Device Interface 1KV</li></ul> <p><b>Firmware features</b></p> <ul style="list-style-type: none"><li>• <b>Management Function:</b> Telnet, CLI, WEB, SNMP Port Status monitoring and configuration management Online ONU configuration and management User management Alarm management</li><li>• <b>Layer2 Switch:</b> 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</li></ul>	<p><b>Multicast</b></p> <p>IGMP Snooping 256 IP Multicast Groups</p> <p><b>DHCP</b></p> <p>Support DHCP server, DHCP relay, DHCP snooping Support DHCP option82 Support DHCPv6 server, DHCPv6 relay</p> <p><b>Layer 3 Route</b></p> <p>Support dynamic/static ARP Support WAN (DHCP/PPPOE/Statics) Support static routing, NAT, DMZ Support QoS based on DSCP, MAC, IP, L4 port, protocol, etc. Support ACL based on source MAC address, source IP address, source L4 port, destination IP address, destination L4 port, protocol type, etc.</p> <p><b>IPv6</b></p> <p>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, etc Support IPv6 SLAAC Support MLD v1/v2 snooping (Multicast Listener Discovery snooping)</p> <p><b>GPON Function</b></p> <p>Tcont DBA Gempport traffic In compliant with ITU-T984.x standard Up to 20KM transmission Distance Support data encryption, multi-cast, port VLAN, separation, 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</p> 

\* Specification will be changed without prior notice

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

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<p><b>Power</b></p> <ul style="list-style-type: none"><li>• DC 12V/2.5A (Optional)</li><li>• AC 100~240V, 50/60Hz (Default)</li></ul> <p><b>Environment</b></p> <ul style="list-style-type: none"><li>• <b>Working Temperature:</b> -20°C to +60°C</li><li>• <b>Storage Temperature:</b> -40°C to +70°C</li><li>• <b>Relative Humidity:</b> 5%~95%, non-condensing</li><li>• <b>Fan:</b> 1x Built-in FAN</li><li>• <b>MTBF:</b> 200000 hrs.</li></ul> <p><b>Standard package of OLT</b></p> <ul style="list-style-type: none"><li>• <b>Product size:</b> 21.0 x 17.3 x 4.36 cm(L*W*H)</li><li>• <b>Package size:</b> 35.0 x 26.0 x 7.0 cm(L*W*H)</li><li>• <b>Package Weight:</b> Product N.W: 1.282kg Product G.W: 1.667kg</li><li>• <b>Package content:</b> 1 x GPON OLT121, 1x Power Cable</li></ul> <p><b>Ordering information</b></p> <ul style="list-style-type: none"><li>• <b>AirLive GPON OLT121</b> 1 PON Ports GPON OLT with 10G SFP+</li></ul>	

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