

# 16 PON Ports GPON OLT with 10G SFP+

GPON OLT-1644



Support  
2048  
GPON ONU

16x  
PON Port

4x  
Gigabit  
Uplink

1.25Gbps Uplink  
2.5Gbps Downlink

4x  
10GE(SFP+)  
Uplink

Fiber  
Optical  
20KM

Compliant  
ITU-T984.x  
standard

ONU auto  
discovery  
link

Redundant  
Power  
(Option)

## Overview

The GPON OLT-1644 also complies with ITU-T G.984/G.988 standards, which are the technical requirements for GPON OLTs in network access. This ensures that the device is interoperable with other GPON-compliant equipment and can be used in a variety of network environments.

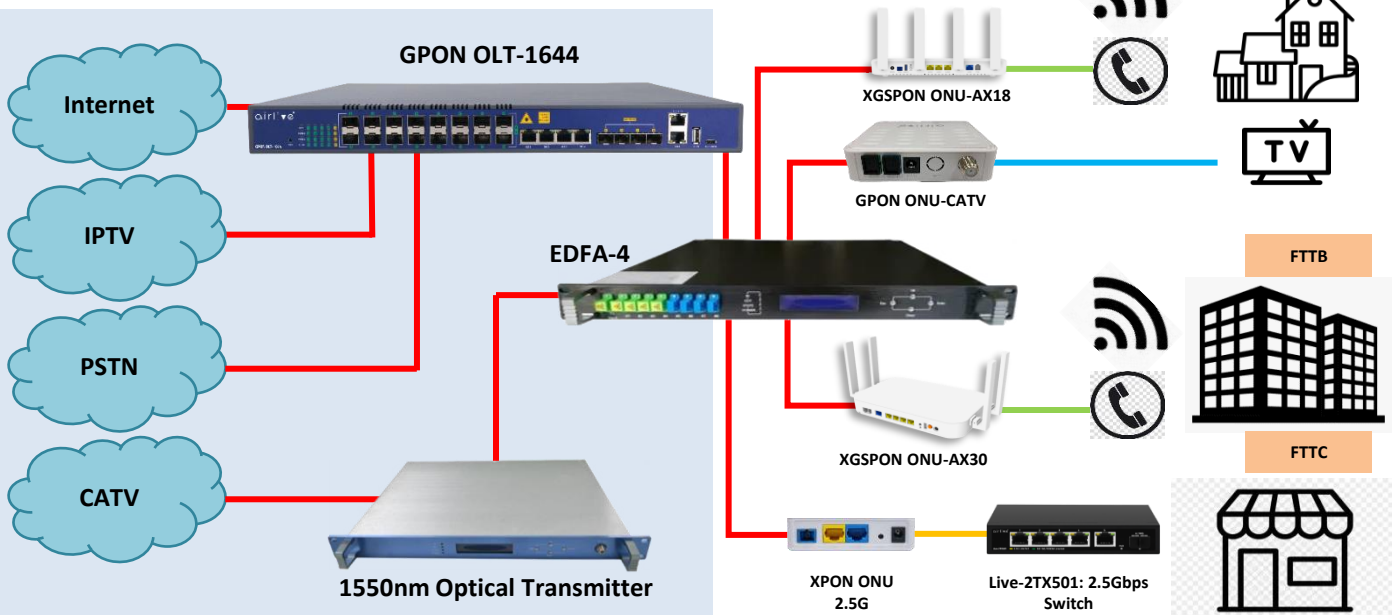
The GPON OLT-1644 seems to be a versatile and effective solution for managing up to 2048 ONU devices in a fiber broadband network. Its ease of installation and maintenance make it an attractive option for small to medium-sized deployments.

GPON OLT-1644 this device is designed for use in FTTH (Fiber-to-the-Home) and small business applications and has a 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.

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

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

### GPON Services 2048 ONU

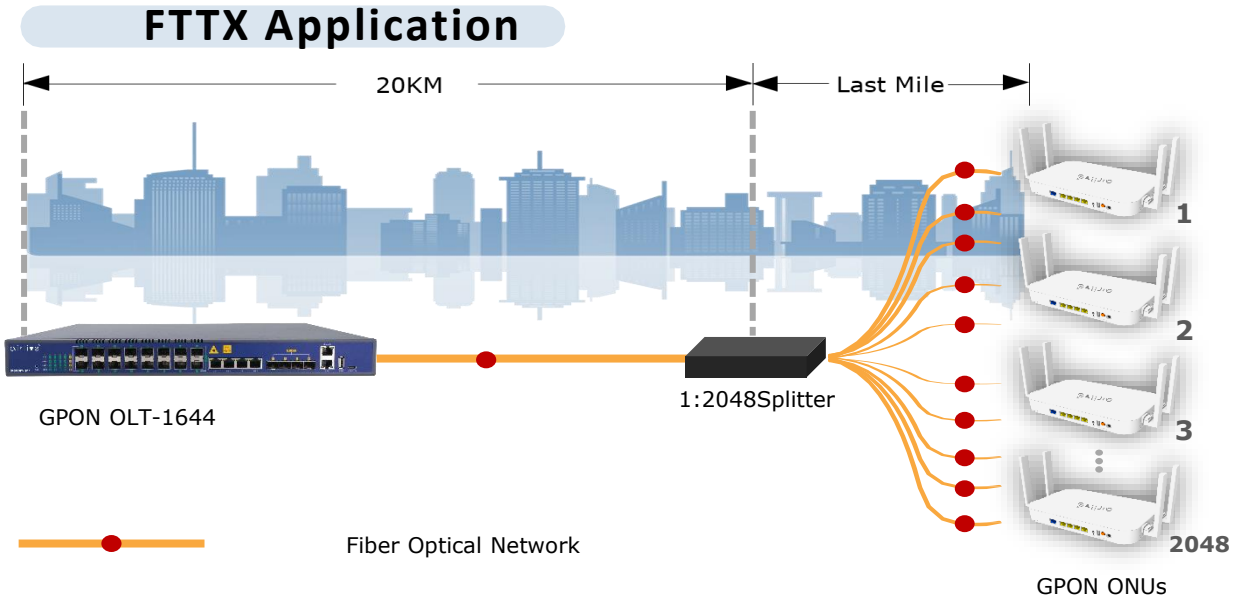


## Highlight Feature

- 16 PON ports, 4\*SFP+ 10G, 4\*RJ45 1G, 1U 19"
- Upstream 1.244Gbps, Downstream 2.488Gbps
- Each PON port supports up to 128 ONUs, total up to 2048 ONUs
- Redundant Power (\*Option)

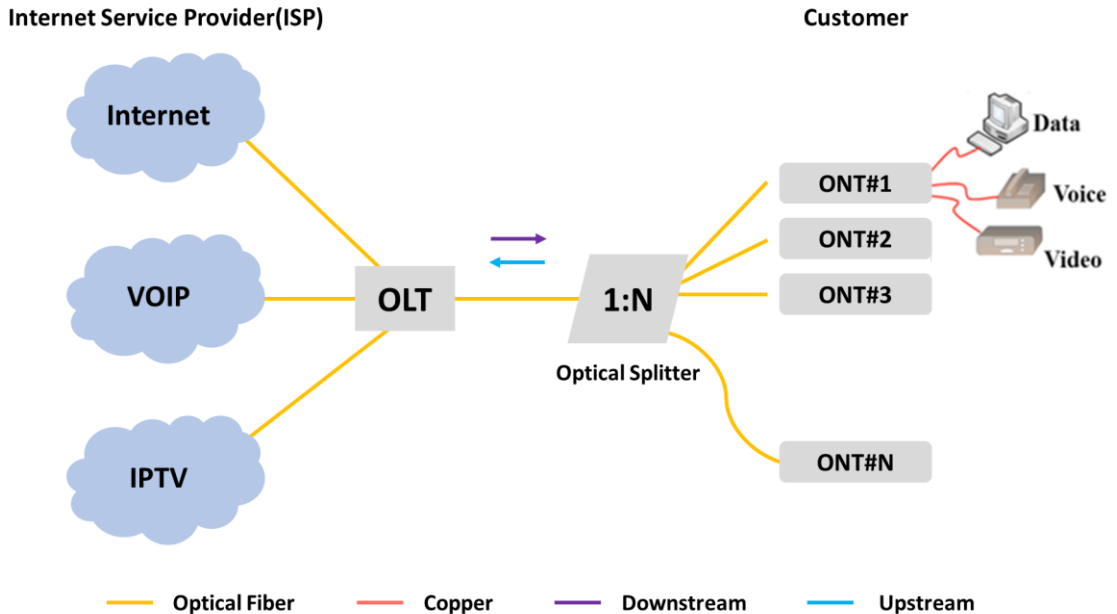
### FTTX Application

GPON OLT-1644 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-1644 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. With a coverage range of up to 20km between equipment nodes, the OLT-1644 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.



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<p><b>Device Interface</b></p> <ul style="list-style-type: none"> <li>• <b>PON Port:</b> 16x SFP</li> <li>• <b>Uplink RJ45:</b> 4x GE</li> <li>• <b>Uplink SFP+:</b> 4x SFP+ (10GE)</li> <li>• <b>Console:</b> 1*10/100/1000BASE-T out-band port, 1*Console port, 1*USB2.0, 1*Type-C USB (for console)</li> <li>• <b>Fiber Type:</b> 9/125µm SMF</li> <li>• <b>Connector:</b> SC/UPC</li> <li>• <b>Supported PON module level:</b> Class B+, C, C+, C++, C+++</li> <li>• <b>Supported ONUs:</b> 2048</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 (Gbps):</b> 208</li> <li>• <b>Port Forwarding Rate(Mpps):</b> 124.992</li> <li>• <b>Management Mode:</b> WEB/SNMP//Telnet/CLI</li> </ul> <p><b>Firmware features</b></p> <ul style="list-style-type: none"> <li>• <b>Management Function:</b> SNMP, Telnet, CLI, WEB, SSH v2; Fan Group Control Port Status monitoring and configuration management Online ONU configuration and management User management Alarm management</li> <li>• <b>Layer2 Switch:</b> 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 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</li> </ul>	<p><b>Multicast</b></p> <p>IGMP Snooping 2048 IP Multicast Groups</p> <p><b>DHCP</b></p> <p>DHCP server, DHCP relay, DHCP snooping DHCP option82</p> <p><b>Layer 3 Route</b></p> <p>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,RIPng and OSPF v2/v3</p> <p><b>IPv6</b></p> <p>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> <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, 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</p>



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<p><b>Power</b></p> <ul style="list-style-type: none"><li>• 1x AC 110~264V, 50/60Hz (85W) (Default)</li><li>• 2x AC 110~264V, 50/60Hz (85W) (Option)</li><li>• 1x AC 110~264V, 1x DC 48V (Option)</li><li>• 2x DC 48V (Option)</li></ul> <p><b>Environment</b></p> <ul style="list-style-type: none"><li>• <b>Working Temperature:</b> 0°C to +50°C</li><li>• <b>Storage Temperature:</b> -40°C to +85°C</li><li>• <b>Relative Humidity:</b> 5%~90%, non-condensing</li></ul> <p><b>Standard package of switch</b></p> <ul style="list-style-type: none"><li>• <b>Product size:</b> Product Dimensions: 44.2x31.9x4.36 cm</li><li>• <b>Package Weight:</b> Product N.W: 4.80KG Product G.W: 6.40KG</li><li>• <b>Package content:</b> 1 x GPON OLT1644, Power Cable, Install Accessory, User Manual</li></ul> <p><b>Ordering information</b></p> <p>AirLive GPON OLT-1644 16 PON Ports GPON OLT with 10G SFP+</p>	