

# 1 Port XPON + 1\*2.5GbE+1\*GE ONU

XPON 2.5GE XPON ONU

airlive®



1x XPON Dual Mode  
Automatically Access to  
EPON/GPON

XPON  
ONU

-20°C ~ +60°C  
Temp Range

1 x 2.5GE RJ-45  
1 x 1GE RJ-45

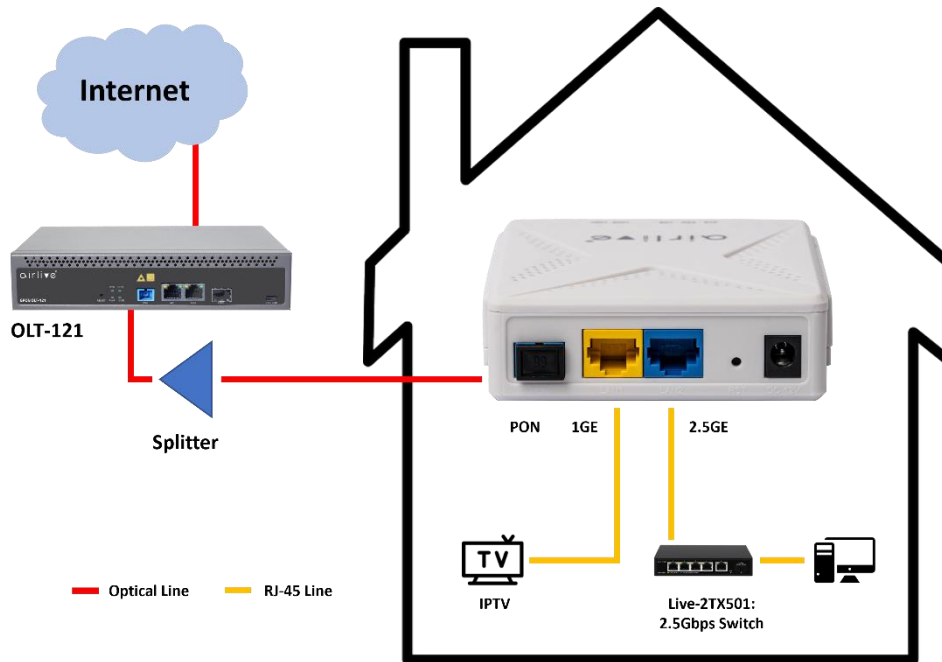
Fiber  
Optical 20KM

Compliant ITU-T  
G.984 standard

## Overview

The 2.5GE XPON ONU is a recently launched ONU that caters to new optical fiber communication networks. It conforms to international standards like ITU-T G.984 and IEEE802.ah. The ONU comes with 1 x 2.5GE + 1GE RJ-45 port. The ONU's 2.5GE network port can fully meet the high access bandwidth requirements of WIFI 6 technology, AR/VR technology, 8K video and more, it can bring fast Internet access experience and lower Internet latency for home users and enterprise users.

The ONU is specially designed to meet the needs for FTTO (office), FTTD (desktop), FTTH (home), SOHO broadband access, video surveillance, etc. It is based on XPON technology, with high reliability, easy maintenance, and can provide QoS guarantee for different services.



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

The 2.5GE XPON ONU offers a solution for providing high-speed and long-distance coverage in triple play service applications such as HDTV, IPTV, and multimedia, enabling fast and reliable data transmission. With a coverage range of up to 20km between equipment nodes, the 2.5GE XPON ONU 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.

## Highlight Feature

- XPON Dual Mode Automatically Access to EPON/GPON
- 1x 2.5Gbps RJ-45 Port for High-speed networking
- 1x 1Gbps RJ-45 Port
- Small size easy to use.

Model	XPON 2.5GE XPON ONU
<p><b>Device Interface</b></p> <ul style="list-style-type: none"> <li>• <b>PON Port:</b> 1x (EPON PX20+ &amp; GPON Class B+)</li> <li>• <b>Connector:</b> SC single mode, SC/UPC</li> <li>• <b>TX optical power:</b> 0~+4dBm</li> <li>• <b>RX sensitivity:</b> -27dBm</li> <li>• <b>Overload optical power:</b> -3dBm(EPON) or -8dBm(GPON)</li> <li>• <b>Wavelength:</b> TX 1310nm, RX 1490nm</li> <li>• <b>Transmission Distance:</b> 20KM</li> <li>• <b>LAN Port:</b> 1x 2.5G RJ-45, 1x 1G RJ-45</li> <li>• <b>Power:</b> 12V, 0.5A External Power Adapter</li> <li>• <b>LED:</b> POWER, PON, LOS, WAN, LAN1, LAN2</li> </ul> <p><b>Function features</b></p> <ul style="list-style-type: none"> <li>• <b>XPON:</b> Dual-mode, Auto-access to EPON/GPON OLT</li> <li>• <b>Uplink Mode:</b> Bridging and Routing Mode</li> <li>• <b>Abnormal protection:</b> Detecting Rogue ONU, Hardware Dying Gasp</li> <li>• <b>Firewall:</b> DDOS, Filtering Based on ACL/MAC/URL</li> </ul> <p><b>Firmware features</b></p> <ul style="list-style-type: none"> <li>• <b>Basic:</b> Support MPCP discover&amp;register Support authentication Mac/Loid/Mac+Loid Support Triple Churning Support DBA bandwidth Support auto-detecting, auto-configuration, and auto firmware upgrade Support SN/Psw/Loid/Loid+Psw Authentication</li> <li>• <b>LAN:</b> Support Port rate limiting Support Loop detection Support Flow control Support Storm control</li> <li>• <b>VLAN:</b> Support VLAN tag mode Support VLAN transparent mode Support VLAN trunk mode (max 8 VLANs) Support VLAN 1:1 translation mode (<math>\leq 8</math> VLANs) Auto VLAN detection</li> <li>• <b>Alarm:</b> Support Dying Gasp Support Port Loop Detect Support Eth Port Los</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Multicast:</b> Support IGMPv1/v2/Snooping Max Multicast VLAN 8 Max Multicast Group 64</li> <li>• <b>QoS:</b> Support 4 queues Support SP and WRR Support 802.1P</li> <li>• <b>L3:</b> Support IPv4/IPv6 Support DHCP/PPPOE/Static IP Support Static route Support NAT</li> <li>• <b>Management:</b> Support TR069/WEB/TELNET/CLI Support ITUT984.x OMCI Support CTC OAM 2.0 and 2.1</li> </ul> <p><b>Power Supply</b></p> <ul style="list-style-type: none"> <li>• <b>Input Voltage:</b> DC 12V, 0.5A Power Adapter</li> </ul> <p><b>Environment</b></p> <ul style="list-style-type: none"> <li>• <b>Operating Temperature:</b> -20°C to +60°C</li> <li>• <b>Storage Temperature:</b> -30°C to +70°C</li> <li>• <b>Working Humidity:</b> 10%~90%, non-condensing</li> <li>• <b>Storage Humidity:</b> 10%~90%, non-condensing</li> <li>• <b>MTBF:</b> 100000 hrs.</li> </ul> <p><b>Standard package of ONU</b></p> <ul style="list-style-type: none"> <li>• <b>Product size:</b> Product Dimensions: 10x9.2x2.95 cm(L*W*H) Package Dimensions: 21x15.7x4.1 cm(L*W*H)</li> <li>• <b>Package Weight:</b> Product N.W: 0.107kg Product G.W: 0.195kg</li> <li>• <b>Package content:</b> ONU x 1, QIG x 1, Power Adapter x 1</li> <li>• <b>Ordering Information</b></li> <li>• <b>Model:</b> XPON 2.5GE XPON ONU</li> <li>• <b>Name:</b> XPON 2.5GE XPON ONU with 1x PON Port, 1x 2.5G RJ-45, 1x 1G RJ-45 Port.</li> </ul>

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