

1 Port XPON InWall ONU
Incl. 1x 2.5G RJ45, 1x 1G RJ45

ONU-InWall-2.5GE



1X
XPON Dual Mode
Automatically Access to
EPON/GPON

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

XPON ONU
86type

Realtek
Solution

IPv4/IPv6
Dual Stack

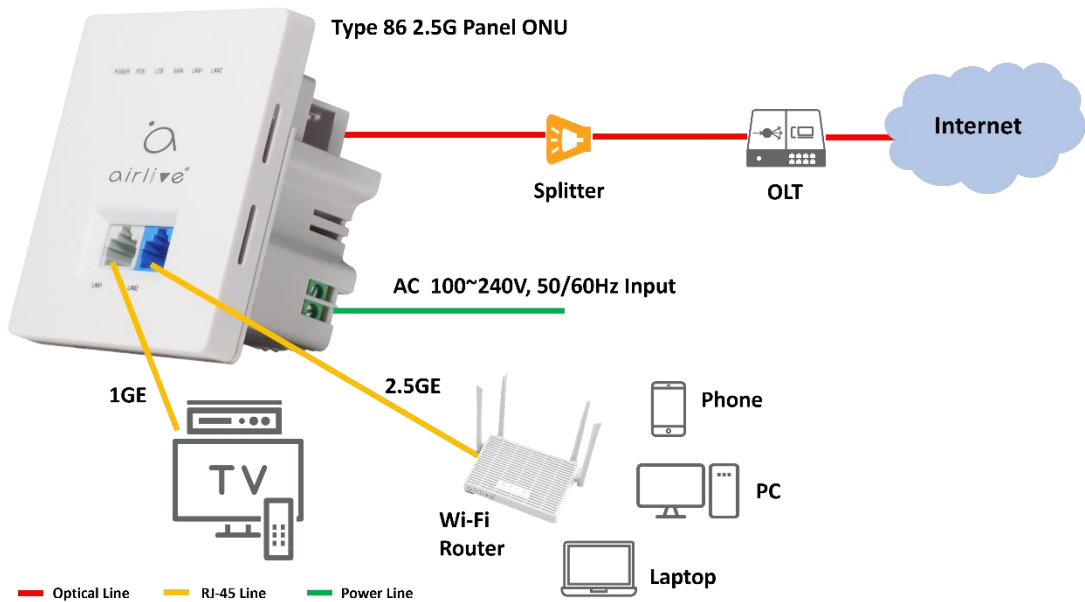
Fiber
Optical 20KM

-10°C ~ +55°C
Temp Range

Compliant ITU-T
G.984 standard

Overview

The 86-Type ONU (1x XPON + 1x 2.5GE + 1x 1GE Panel ONT) is the perfect solution for seamless, high-speed fiber optic access in hotels and hospitality settings, as well as residential and office environments. Featuring an XPON port, this device delivers the robust bandwidth essential for HD streaming, rapid downloads, and uninterrupted online gaming, making it ideal for today’s high-demand digital experiences. Designed for direct wall mounting in Type 86 electrical boxes, this compact panel ONU offers a clean, streamlined look, eliminating visible cables and preventing damage to exposed pigtails. Equipped with a 2.5 and 1 Gigabit Ethernet port for stable wired connections, it supports multiple devices effortlessly, and it also supports Layer 2/Layer 3 functions, providing data service for carrier-grade FTTH applications. In addition, the ONT also supports the OAM/OMCI protocol. It conforms to international standards like ITU-T G.984 and IEEE802.ah. Making it a versatile and dependable choice for hotels striving to meet the connectivity needs of modern guests in a professional, aesthetic setup.



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

The ONU-InWall-2.5G 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 XPON ONU-2.5GE 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 with UL 1.25Gbps, DL: 2.5Gbps Speeds
- 1x 2.5Gbps RJ-45 Port for High-speed networking
- 1x 1Gbps RJ-45 Port
- XPON Dual Mode Automatically Access to EPON/GPON
- Inwall type, Small size easy to use

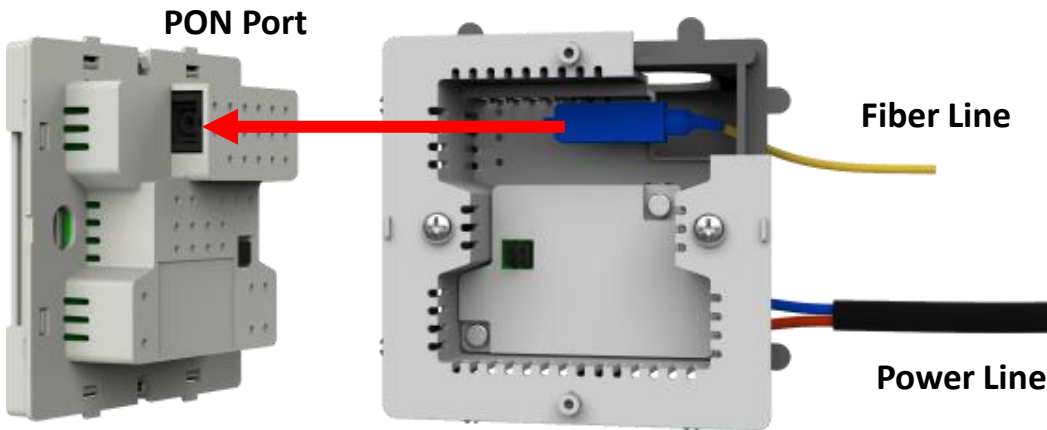
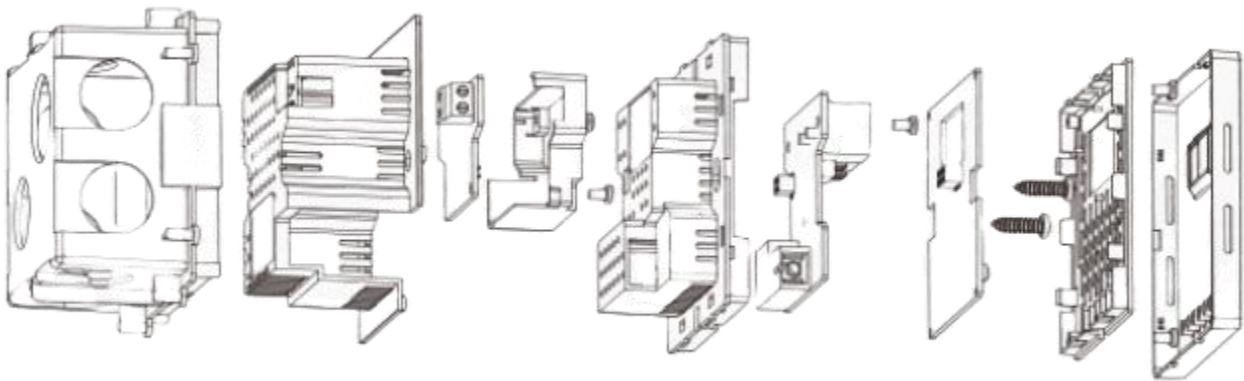
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Modular Design

The Airlive XPON InWall ONU has a modular design making it easier to install the device and when needed to do maintenance on it. The main two parts of the Inwall ONU are separated making it easy to first install the base unit to the main powerline and placing it into the Type 86 electrical box. The second part has the PON port which is connected to the fiber optic line and the RJ45 LAN ports.



Model	ONU-InWall-2.5GE
Device Interface <ul style="list-style-type: none">• PON Port: 1 x (EPON PX20+ & GPON Class B+)• Connector: SC single mode, SC/UPC connector• TX optical power: 0 ~ +4dBm• RX sensitivity: -27dBm• Overload optical power: -3dBm(EPON) or -8dBm(GPON)• Wavelength: TX 1310nm, RX 1490nm• Transmission Distance: 20KM• LAN Port: 1 x 2.5GE, 1 x 1GE RJ-45• LED: POWER, PON, LOS, WAN, LAN1, LAN2 Function features <ul style="list-style-type: none">• XPON: Dual-mode, Auto-access to EPON/GPON OLT• Uplink Mode: Bridging and Routing Mode• Abnormal protection: Detecting Rogue ONU, Hardware Dying Gasp• Firewall: DDOS, Filtering Based on ACL/MAC/URL Firmware features <ul style="list-style-type: none">• Basic:<ul style="list-style-type: none">Support MPCP discover & registerSupport authentication Mac/Loid/Mac+LoidSupport Triple ChurningSupport DBA bandwidthSupport auto-detecting, auto-configuration, and auto firmware upgradeSupport SN/Psw/Loid/Loid+Psw authentication• Alarm:<ul style="list-style-type: none">Support Dying GaspSupport Port Loop DetectSupport Eth Port Los• LAN:<ul style="list-style-type: none">Support Port rate limitingSupport Loop detectionSupport Flow controlSupport Storm control• VLAN:<ul style="list-style-type: none">Support VLAN tag modeSupport VLAN transparent modeSupport VLAN trunk mode(max 8 vlans)Support VLAN 1:1 translation mode(≤8 vlans)Auto VLAN detection• Multicast:<ul style="list-style-type: none">Support IGMPv1/v2/SnoopingMax Multicast VLAN 8Max Multicast Group 64	<ul style="list-style-type: none">• QoS:<ul style="list-style-type: none">Support 4 queuesSupport SP and WRRSupport 802.1P• Layer 3:<ul style="list-style-type: none">Support IPv4/IPv6Support DHCP/PPPOE/Static IPSupport Static routeSupport NAT• Management:<ul style="list-style-type: none">Support CTC OAM 2.0 and 2.1Support ITUT984.x OMCISupport TR069/WEB/TELNET/CLI Power Supply <ul style="list-style-type: none">• Input Voltage: 100 ~ 240V AC, 50/60Hz Environment <ul style="list-style-type: none">• Operating Temperature: -10°C to +55°C• Storage Temperature: -40°C to +70°C• Working Humidity: 5%~95%, non-condensing• Storage Humidity: 5%~95%, non-condensing• MTBF: 100000 hrs. Standard package of ONU <ul style="list-style-type: none">• Product size: 8.6 x 8.6 x 3.3 cm(L*W*H)• Package size: TBD cm (L*W*H)• Package Weight:<ul style="list-style-type: none">Product N.W: 0.16kgProduct G.W: TBD kg• Package content:<ul style="list-style-type: none">ONU x 1, QIG x 1 Standard carton package <ul style="list-style-type: none">• Quantity: TBD pcs / 1 carton• Dimensions<ul style="list-style-type: none">TBD cm (L*W*H)• Weight<ul style="list-style-type: none">TBD kg (G.W)• Ordering Information• Model:<ul style="list-style-type: none">ONU-InWall-2.5GE• Name:<ul style="list-style-type: none">1 Port XPON InWall ONU Incl. 1x 2.5G RJ45, 1x 1G RJ45 Port.

* Specification will be changed without prior notice

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