1 Port 10G XGS PON Wi-Fi AX3000 ONU
Incl. 1x 2.5G RJ45, 3x 1G RJ45, 1x POTS, 1x USB3.0

ONU-10XGS-AX304P-2.5G
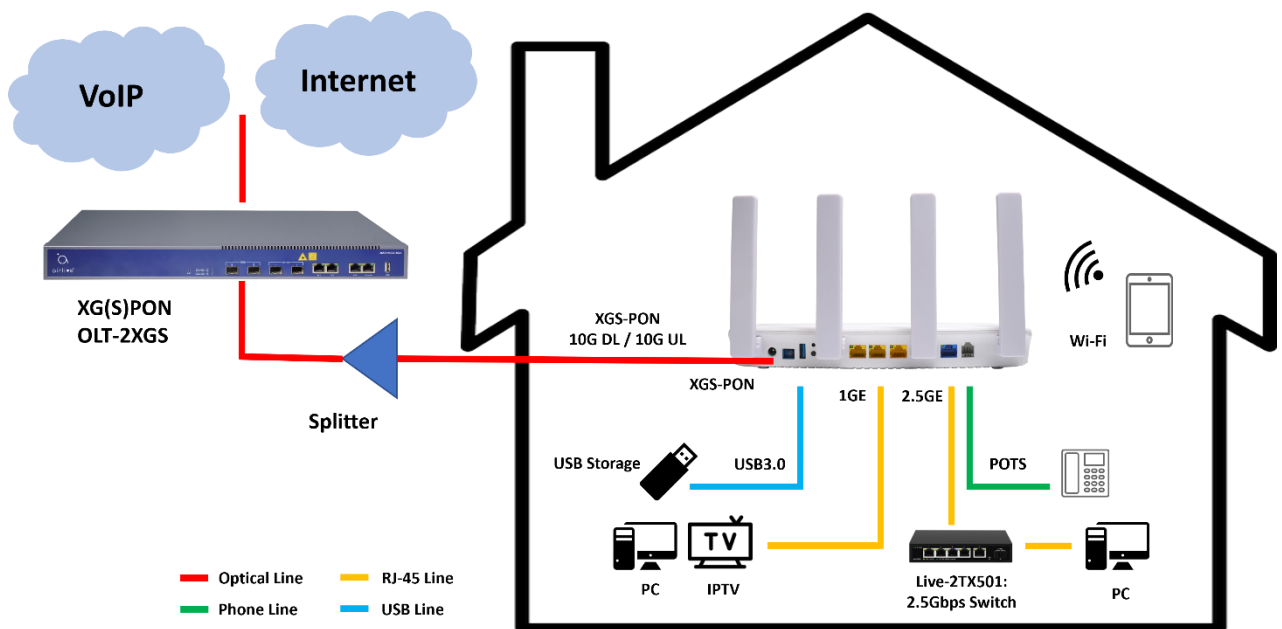
airlive®

10G XGS-PON	AX3000 Wi-Fi	IPv4/IPv6 Dual Stack	Compliant ITU-T G.9807.1 standard
1 x 2.5GE RJ-45 3 x 1GE RJ-45	1x POTS	Realtek Solution	USB3.0 Interface For Shared Storage

Overview

The AirLive ONU-10XGS-AX304P-2.5G is a recently launched ONU that caters to new optical fiber communication networks. It conforms to international standards like ITU-T G.9807.1 (XGS-PON). The ONU comes with 1 x 2.5GE + 3 x 1GE RJ-45 ports for ultra fast connection speeds. The ONU also comes with 1x POTS port for VoIP services and a USB3.0 port which can be used to share USB storage. The ONU can fully meet the high access bandwidth requirements of Wi-Fi 6 technology with its AX3000 Wi-Fi. The ONU 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 XGSPON 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 AirLive 10G XGSPON ONU offers a solution for providing high-speed and long-distance coverage. The AirLive XGS-PON AX supports full Triple Play of services enabling Data, Voice and Video services through Ethernet, Wi-Fi, FXS and USB standard interfaces, help Internet Service Providers to deliver internet service speeds of more than 2.5Gbps which is limited by GPON.

Triple play service applications such as HDTV, IPTV, and multimedia, enabling fast and reliable data transmission. With a large range between equipment nodes, the 10G XGSPON 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

- 10G XGSPON with UL 10Gbps, DL: 10Gbps Speeds
- 1x 2.5Gbps RJ-45 Port for High-speed networking
- 3x 1Gbps RJ-45 Port
- 1x POTS port for VoIP
- 1x USB3.0 for Shared Storage
- Wi-Fi 6 11a/b/g/n/ac/ax compliant
- 2T2R 3000Mbps Wireless High Speed (600Mbps + 2400Mbps)

Specification

Model	ONU-10XGS-AX304P-2.5G

Device Interface

- **PON Port**: 1x 10G PON port: Class B+
- **Connector**: SC single mode, SC/UPC connector
- **TX optical power**: 6dBm (XGS-PON)
- **RX sensitivity**: -28dBm
- **Overload optical power**: -7dBm
- **Transmission distance**: 20km
- **Wavelength**: XGS-PON: RX 1577nm/TX 1270nm
- **10G PON layer**: ITU-T G.9807.1 (XGS-PON)
- **XGS-PON ONU Speed**: Upstream 9.953Gbps, Downstream: 9.953Gbps
- **LAN / POTS/ USB Port**:
  1 x 10/100/1000/2500M RJ-45 Port
  3 x 10/100/1000M RJ-45 Port
  1 x POTS RJ-11 Port
  1 x USB3.0 Port (Storage)
- **LED**: PON/LOS, WAN, USB, PHONE, Wi-Fi

Wi-Fi

- **Standard**: IEEE 802.11a/b/g/n/ac/ax, 2x2, 20/40/80/160 MHz channels
- **Antenna**: 2x 4dBi (2.4GHz), 2x 5dBi (5Ghz) external antennas
- **Security**: WEP-64/WEP-128/ WPA/WPA2/WPA3
- **Modulation**: OFDMA, MU-MIMO, Dynamic QoS, 1024QAM
- **Wi-fi Advanced**: Wireless client isolation
- **Wireless Channel**
- 2.4G (2412-2472MHz): 1~13 (region dependent)
- 5.8G (5170-5875MHz): 36~48, 36~64, 100~140, 149~165 (region dependent)
- **Wireless Speed**: 3000Mbps Wireless High Speed (600Mbps + 2400Mbps)
- **Wireless TX Power**
  2.4G: ≤22dbm, 5.8G: ≤23dbm (region dependent)
- **Wireless**: Multi-SSID 8 (4 per radio), Smart Connect One Wi-Fi name - One SSID for 2.4GHz and 5GHz dual band

VoIP

- **VoIP**: Support SIP and IMS SIP
  Support G.711a/G.711u/G.722/G.729 Codec
  Support Echo cancellation, VAD/CNG,DTMF Relay
  Support T.30/T.38 FAX
  Support Caller Identification/Call Waiting/Call Forwarding/Call Transfer/Call Hold/3-way Conference
  Support Line testing according to GR-909

Function features

- **Internet connection**: Support Bridge/Router mode
- **Multicast**:
  Support IGMP v1/v2/v3, IGMP snooping
  MLD v1/v2 snooping
- **L2**:
  802.1D&802.1ad bridge, 802.1p Cos,802.1Q VLAN
- **L3**:
  IPv4/IPv6, DHCP Client/Server, PPPoE, NAT, DMZ, DDNS
- **Firewall**:
  Anti-DDOS, Filtering Based on ACL/MAC /URL
- **Management**:
  Support WEB/TELNET/OAM/OMCI/TR069
  Support private OAM/OMCI protocol and Unified network management of AirLive OLT

Power Supply

- **Input Voltage:** DC 12V, 2A Power Adapter
- **Power Usages Max**: ≤ 24W

Environment

- **Operating Temperature:** -0°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

- **Product size:** 24.4 x 13.1 x 3.6 cm (L*W*H)
- **Package size:** 26.5 x 23.6 x 5.6 cm (L*W*H)
- **Package Weight:**
  Product N.W: 0.425kg
  Product G.W: tbc kg
- **Package content**:
  ONU x 1, QIG x 1, Power Adapter x 1

Standard carton package

- **Quantity:** 20 pcs / 1 carton
- **Dimensions**
  55.0 x 45.0 x 30.0cm (L*W*H)
- **Weight**
  8kg (G.W)
- **Ordering Information**
- **Model:**
  ONU-10XGS-AX304P-2.5G
- **Name:**
  10G PON ONU incl. 1x XGS-PON Port, 1x 2.5G RJ-45, 3x 1G RJ-45 Port, 1x POTS RJ-11 Port, 1x USB3.0 Port and AX3000 Wi-Fi

AirLive

* Specification will be changed without prior notice

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