1 PON Ports GPON OLT with 10G SFP+

GPON OLT-121

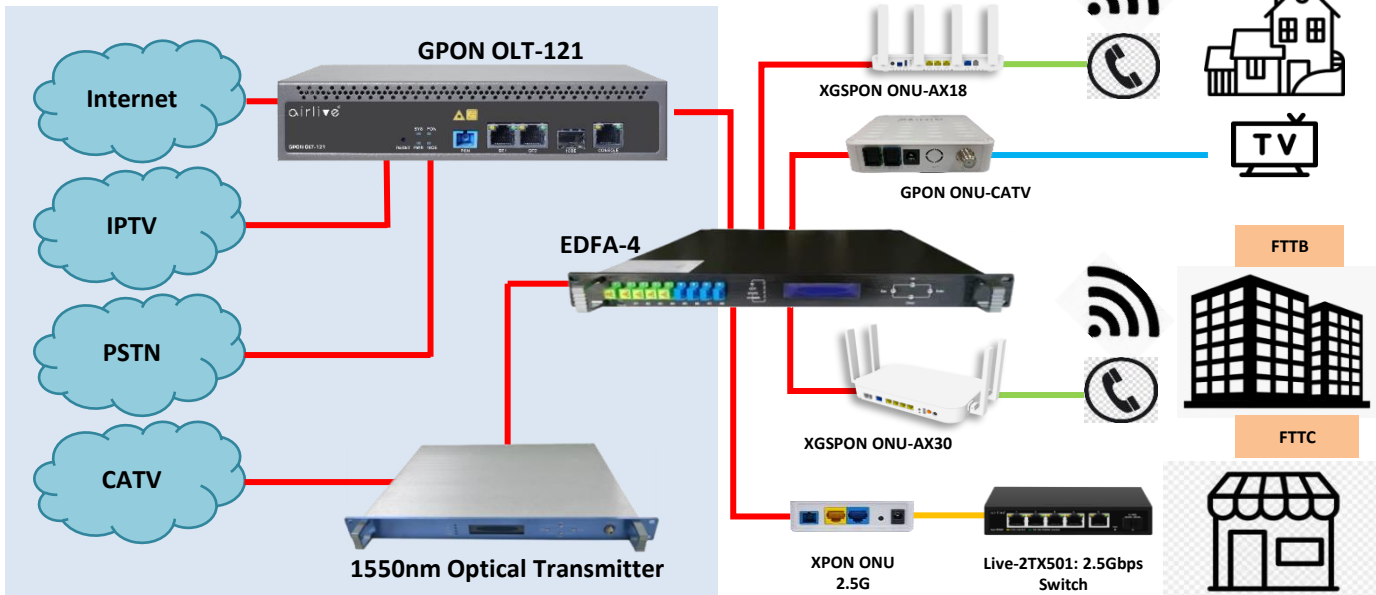| Support 128 GPON ONU	GPON Module Built in	2x Gigabit WAN	1.25Gbps Uplink 2.5Gbps Downlink ONU auto discovery link
10GE(SFP+) Uplink	Fiber Optical 20KM	compliant ITU-T984.x standard	

Overview

The GPON OLT-121 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-121 seems to be a versatile and effective solution for managing 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.

GPON OLT-121. 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
— Telephone Line
— Coaxial Line
— RJ-45 Line

PON Tri-Play Solution example
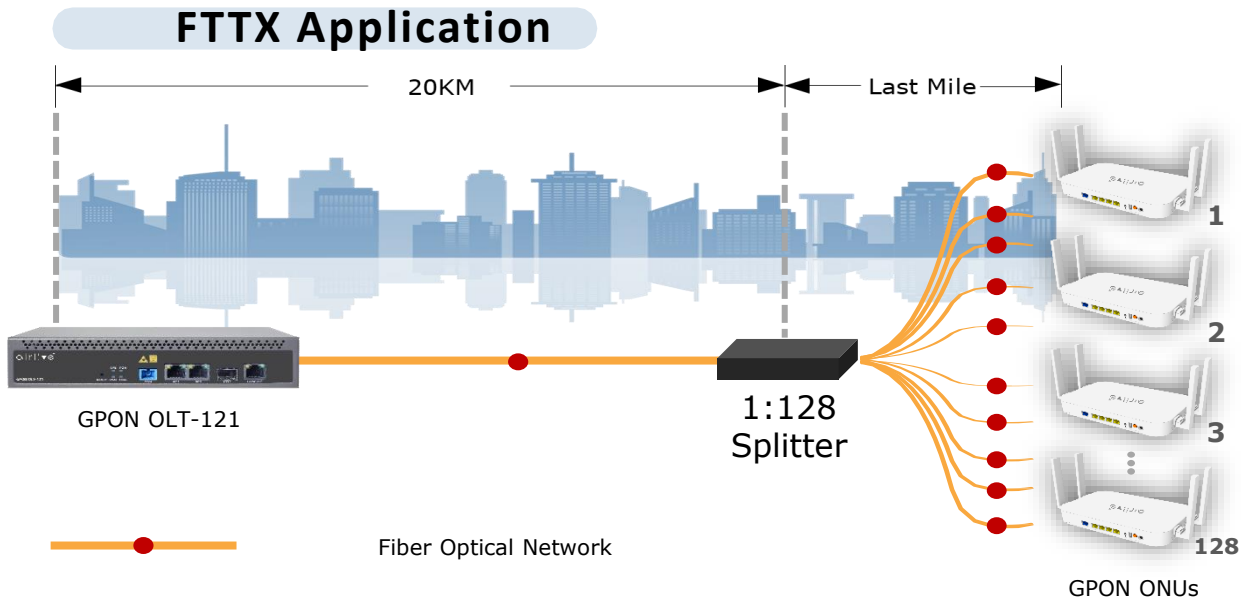Remote CO Service

GPON Services 128 ONU

Highlight Feature

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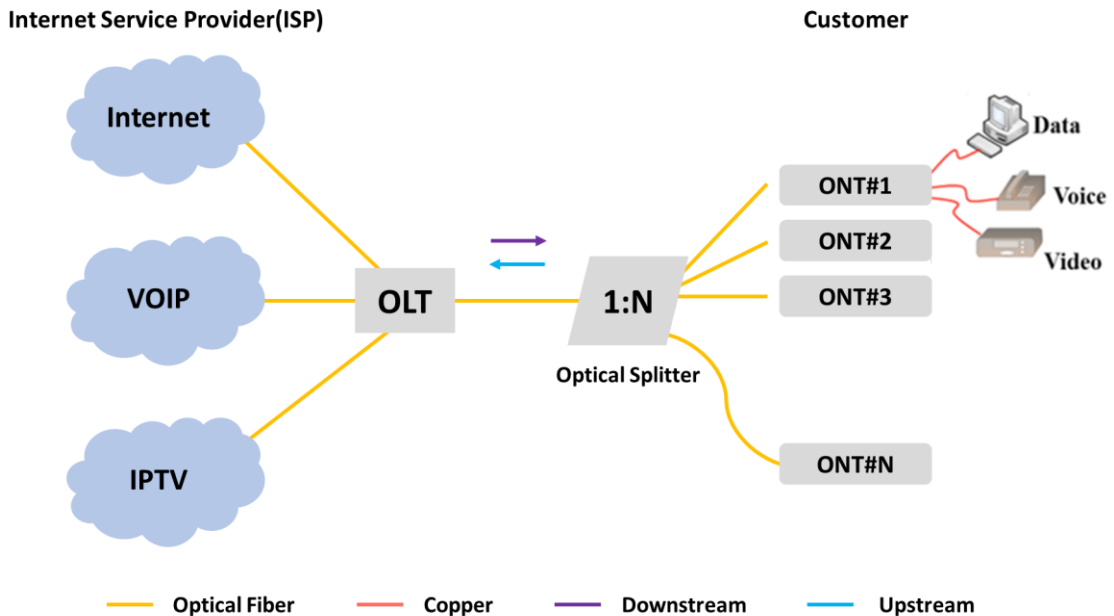- **Single PON port supports up to 128 ONUs, total up to 128 ONUs**

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.

FTTX Application

20KM — Last Mile

GPON OLT-121 — 1:128 Splitter — GPON ONUs (1, 2, 3, 128)

Fiber Optical Network

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. With a coverage range of up to 20km between equipment nodes, the OLT-121 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.

Internet Service Provider(ISP) — Customer

Internet — VOIP — IPTV — OLT — 1:N Optical Splitter — ONT#1, ONT#2, ONT#3, ONT#N — Data, Voice, Video

Optical Fiber — Copper — Downstream — Upstream

Specification

Model	1 PON Ports GPON OLT with 10G SFP+

Device Interface

- **PON Port**: 1x 1.25Gbps/2.5Gbps
- **Uplink RJ45**: 2x 1 GE
- **Uplink SFP+**: 1x SFP+ (10GE)
- **Console**: 1 x RJ45
- **Fiber Type**: 9/125μm SM
- **Connector**: SC/UPC, Class C++, C+++
- **Support ONUs**:128
- **GPON port speed:** Upstream 1.244Gbps, Downstream 2.488Gbps
- **Wavelength**: TX 1490nm, RX 1310nm
- **Max splitting ratio**: 1:128
- **Transmission Distance**: 20KM
- **Backplane Bandwidth (Gbps)**: 16
- **Port Forwarding Rate(Mpps)**: 23.808
- **Management Mode**: Console/WEB/Telnet/CLI
- **Lightning protection level**: Power supply 4KV/Device Interface 1KV

Firmware features

- **Management Function**:
  Telnet,CLI,WEB;
  Port Status monitoring and configuration management
  Online ONU configuration and management
  User management
  Alarm management
- **Layer2 Switch**:
  1K Mac address
  Support 4096 VLANs
  Support port VLAN
  Support VLAN tag/Un-tag, VLAN transparent transmission
  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

GPON Function

Tcont DBA
Gemport 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

Power

- DC 12V/2.5A (Optional)
- AC 85~264V, 47/60Hz (Default)

Environment

- **Working Temperature:** 0°C to +55°C
- **Storage Temperature:** -40°C to +85°C
- **Relative Humidity**: 10%~85%, non-condensing

Standard package of switch

- **Product size:**
  Product Dimensions: 22.4x19.9x4.36 cm
  Package Dimensions: 35x26x7 cm
- **Package Weight:**
  Product N.W: 1.07KG
  Product G.W: KG
- **Package content**:
  1 x GPON OLT121, Install Accessory, LAN Cable, User Manual

Ordering information

- **AirLive GPON OLT121**
  1 PON Ports GPON OLT with 10G SFP+

www.airlive.com

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