4 PON Ports GPON OLT with 10G SFP+

GPON OLT-422

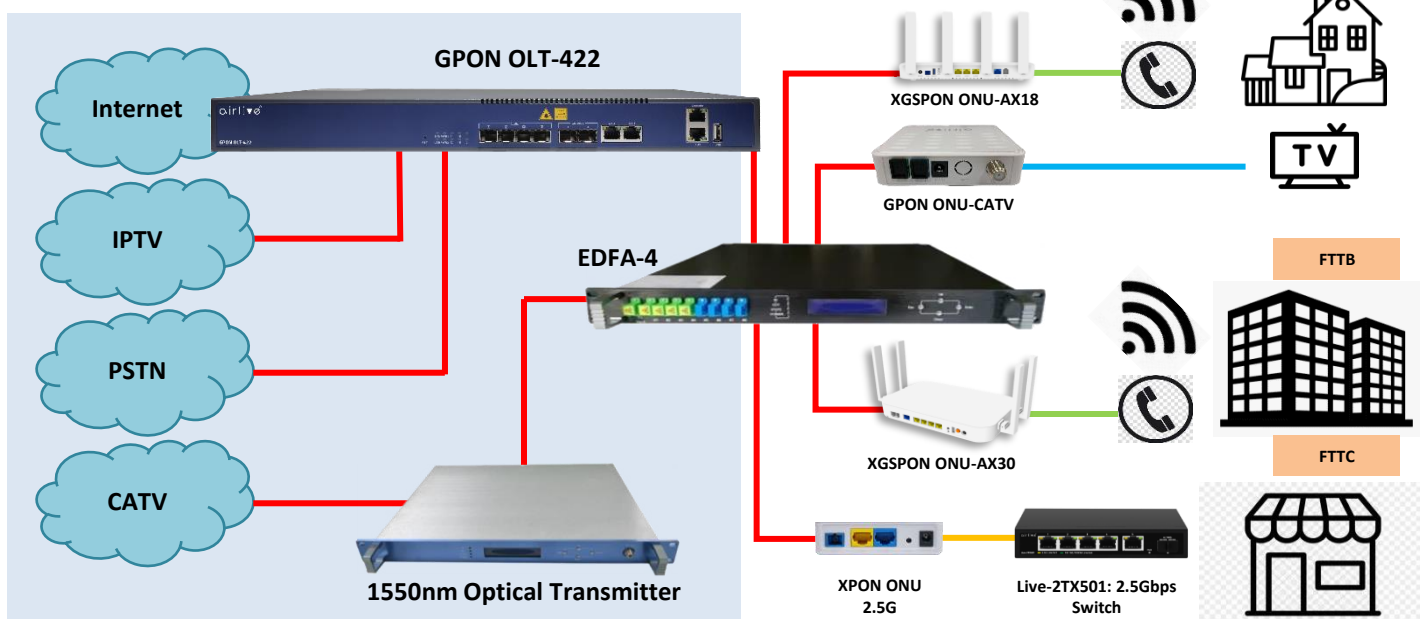| Support 512 GPON ONU	4x PON Port	2x Gigabit WAN compliant ITU-T984.x standard	1.25Gbps Uplink 2.5Gbps Downlink ONU auto discovery link
10GE(SFP+) Uplink	Fiber Optical 20KM		

Overview

The GPON OLT-422 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-422 seems to be a versatile and effective solution for managing up to 512 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-422 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 512 ONU

FTTH

GPON OLT-422

Internet

IPTV

PSTN

CATV

EDFA-4

1550nm Optical Transmitter

XGSPON ONU-AX18

GPON ONU-CATV

XGSPON ONU-AX30

XPON ONU 2.5G

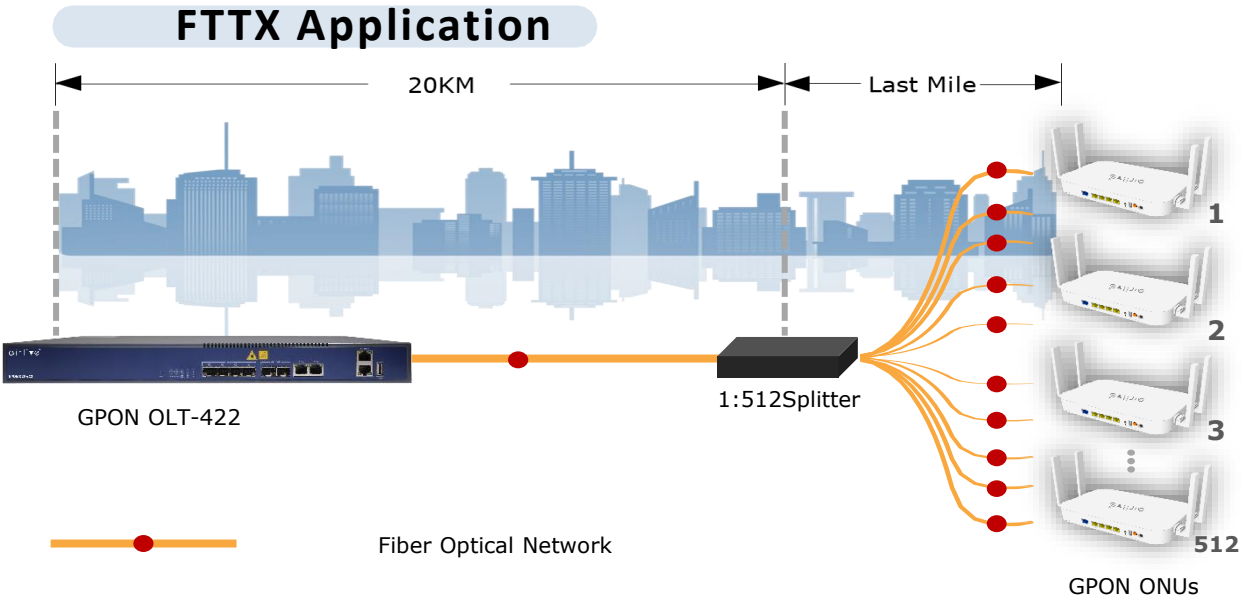Live-2TX501: 2.5Gbps Switch

FTTB

FTTC

Highlight Feature

- **4 PON ports, 2*SFP+ 10G, 2*RJ45 1G, 1U 19"**
- **Upstream 1.244Gbps, Downstream 2.488Gbps**
- **each PON port supports up to 128 ONUs, total up to 512 ONUs**

FTTX Application

GPON OLT-422 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-422 — 1:512Splitter — GPON ONUs (1, 2, 3, 512)
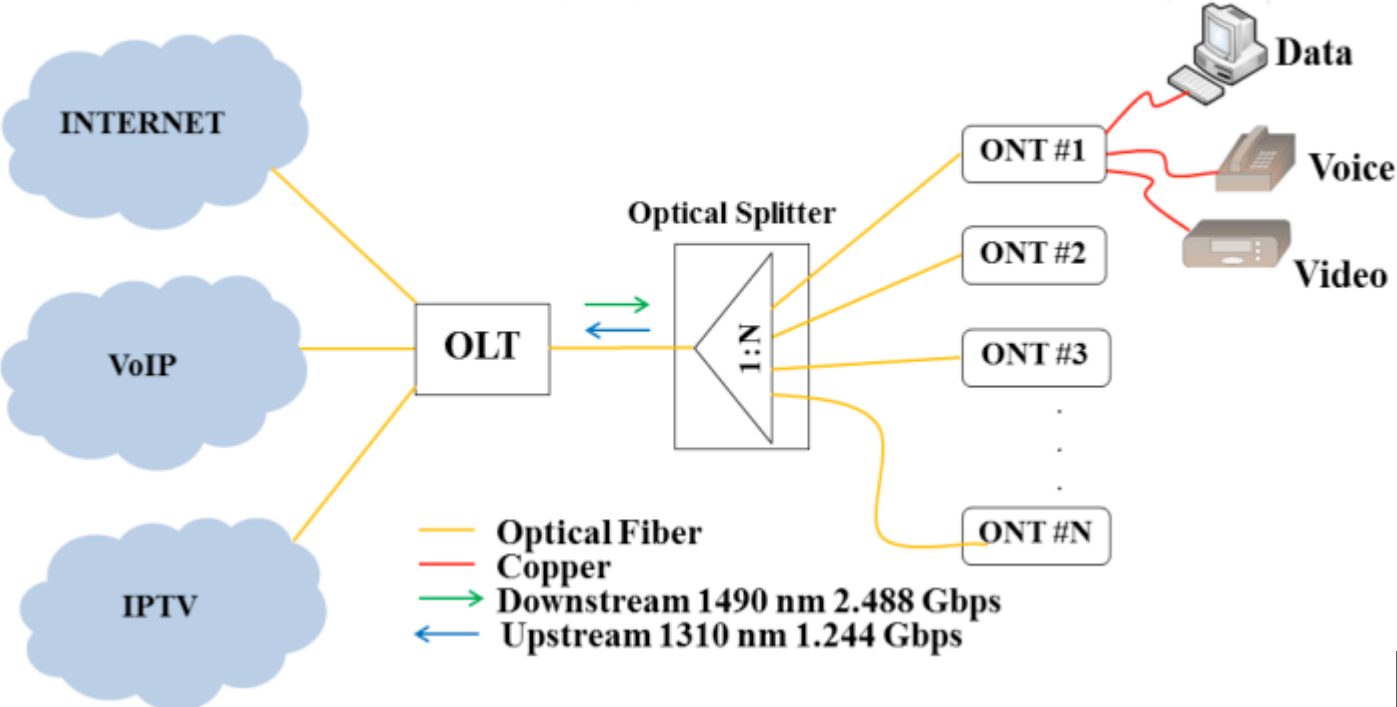
Fiber Optical Network

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

The GPON OLT-422 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-422 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 — Optical Splitter 1:N — ONT #1, ONT #2, ONT #3, ONT #N — Data, Voice, Video

Optical Fiber
Copper
Downstream 1490 nm 2.488 Gbps
Upstream 1310 nm 1.244 Gbps

Specification

Model	4 PON Ports GPON OLT with 10G SFP+

Device Interface

- **PON Port**: 4x SFP
- **Uplink RJ45**: 2x 1GE
- **Uplink SFP+**: 2x SFP+ (10GE)
- **Console**: 1*10/100/1000BASE-T out-band port, 1*Console port, 1*USB2.0
- **Fiber Type**: 9/125µm SMF
- **Connector**: SC/UPC
- **Supported PON module level:** Class B+, C, C+, C++, C+++
- **Support ONU**: 512
- **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)**: 104
- **Port Forwarding Rate(Mpps)**: 47.616
- **Management Mode**: WEB/SNMP/Telnet/CLI

Firmware features

- **Management Function**:
  SNMP, Telnet, CLI, WEB, SSH v2;
  Fan Group Control
  Port Status monitoring and configuration management
  Online ONU configuration and management
  User management
  Alarm management
- **Layer2 Switch**:
  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

Multicast

IGMP Snooping
2048 IP Multicast Groups

DHCP

DHCP server, DHCP relay, DHCP snooping
DHCP option82

Layer 3 Route

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

IPv6

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)

GPON Function

Tcont DBA
Gem port 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

AirLive

Model	4 PON Ports GPON OLT with 10G SFP+

Power

- AC 110~264V, 50/60Hz (35W)

Environment

- **Working Temperature:** 0°C to +50°C
- **Storage Temperature:** -40°C to +85°C
- **Relative Humidity**: 5%~90%, non-condensing

Standard package of switch

- **Product size:**
  Product Dimensions: 44.2x22.9x4.36 cm
- **Package Weight:**
  Product N.W: 2.95KG
  Product G.W: 4.15KG
- **Package content**:
  1 x GPON OLT422, Power Cable, Install Accessory,
  User Manual

Ordering information

AirLive GPON OLT-422 4 PON Ports GPON OLT with
10G SFP+