

1 PON GPON MiniOLT Stick

With 2.5G SFP Media Converter

MiniOLT-2.5GPON

airlive®



Support
32
GPON ONU

GPON Module
As Mini OLT

Tx1490
Rx1310

1.25Gbps Uplink
2.5Gbps Downlink

SC/UPC
Connector

Fiber Optical
8KM

compliant
ITU-T984.x
standard

With Fiber
Media
Converter

Overview

Revolutionize Your Network with the AirLive MiniOLT- 2.5GPON much smaller lighter and more portable, the fastest way to quickly expand your PON network. Up to 32 ONU's are supported by the AirLive MiniOLT. Uses a flexible module (based on SFP form factor) design to make port configuration more convenient, accurately adapt to different business needs in different scenarios, facilitate troubleshooting and maintenance, reduce costs, and help the network transition efficiently and smoothly to the era of all-optical networks. Complies with ITU-T G.984 standard, ensuring compatibility with other GPON-compliant equipment. Cost-Effective: A cost-efficient solution that offers flexibility for network deployment without compromising on quality or performance. The MiniOLT is designed for use in FTTH (Fiber-to-the-Home) and small business applications with its single PON port with a splitting ratio of 1:32. It can transmit data up to 8km and has high uplink and downlink bandwidth capabilities of 1.25Gbps/2.5Gbps. The AirLive MiniOLT can also be directly plugged into a network work SFP port.

AirLive MiniOLT-2.5GPON: Your Fast-Track to an All-Optical Network

High-Performance Network Upgrade Solution



• **All-in-One Optical Converter:**
Combines a fiber transceiver and a GPON OLT stick for simple upgrades.

• **Connect Up to 32 Terminals:**
Supports a maximum split ratio of 1:32, connecting numerous ONU terminals.



• **Flexible & Hot-Swappable:**
Modular SFP+ design allows for convenient configuration and maintenance.

Technical Specifications at a Glance



• **2.488 Gbps Downstream Bandwidth:**
Delivers high-speed data with 1.244 Gbps upstream.



• **Efficient and Robust:**
Features low power use (<2.5W) and a wide operating temperature range.

• **8 km Transmission Distance:**
Supports long-range connections over single-mode fiber.

• **PON Type:**
GPON: Class B+

• **Power Supply:**
DC 5V

• **Shell Temp. Range:**
-40°C to 85°C

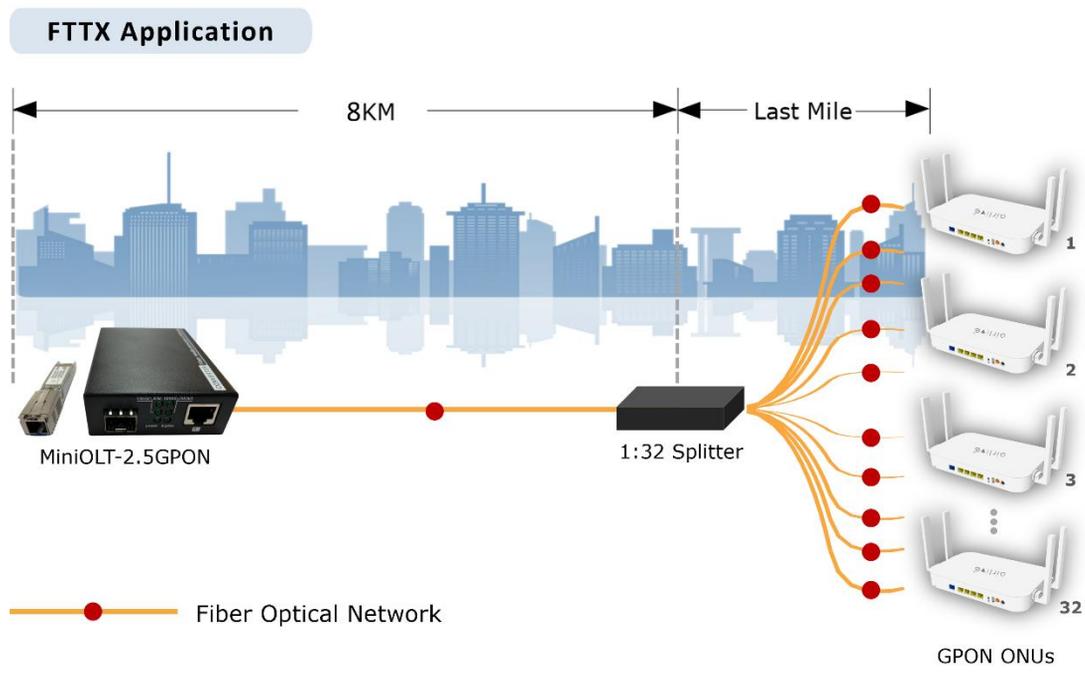
Highlight Feature

- Single fiber bidirectional data link Downstream:2.488Gbps; Upstream: 1.244Gbps
- Equipped with GPON MAC function
- SFP+ package
- SC interface
- Hot swappable function
- Support 8km single-mode fiber transmission distance
- Low power consumption<2.5W
- Shell temperature range: -40 °C to 85 °C
- GPON mode
- Supports up to 32 ONU terminals
- Media Converter with 1x fiber to 1x 2.5G RJ45



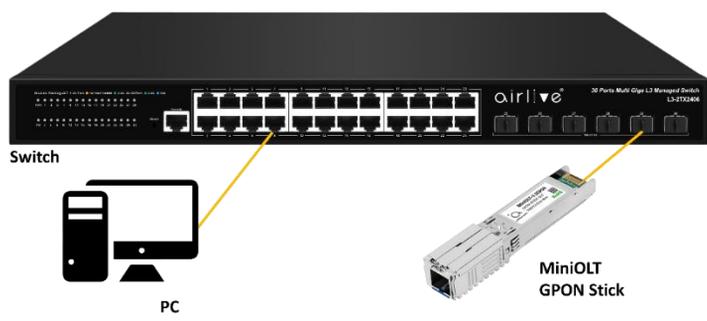
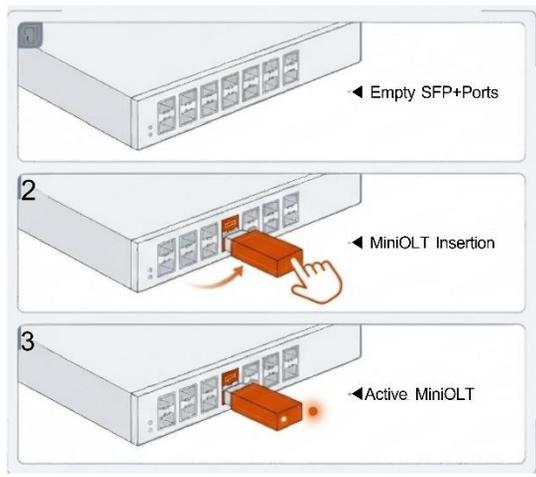
FTTX Application

MiniOLT-2.5GPON 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.



Turn your switch into an OLT

The MiniOLT-2.5GPON can also be plugged directly into the SFP port of a network switch. A connected computer in the same network can then run the control software to setup the OLT. This solution makes it great for saving rack space and makes it so that expanding your PON can be done very quickly. The AirLive MiniOLT-2.5GPON also comes with a media converter, this can be used when a switch does not have a fiber port or in case the fiber port of the switch is not supported by the MiniOLT PON module.



Model	MiniOLT- 2.5GPON
<p>Device Interface</p> <ul style="list-style-type: none">• PON Port: 1x 1.25Gbps/2.5Gbps SFP (Module)• Uplink: 1x SFP Slot (Converter)• Uplink: 1x 2.5G RJ45 (Converter)• Connector: SC/UPC, GPON Class B• Support ONUs: 32• GPON port speed: Upstream 1.244Gbps, Downstream 2.488Gbps• Wavelength: TX 1490nm, RX 1310nm• Max splitting ratio: 1:32• Transmission Distance: 8km• Lightning protection level: tbd• Protocol: ITU-T G.984.2, OMCI <p>PON Features</p> <ul style="list-style-type: none">• Function: Support auto register Manual active the ONU P2P Mandatory Rate Cover Offline• Display: Support fault display Support status display• Configuration and Management Display: Firmware Upgrade Batch upgrade of up to 5 ONU devices	<p>Power</p> <ul style="list-style-type: none">• DC 5V/1A (Converter)• Power Usages Max: <3W <p>Environment</p> <ul style="list-style-type: none">• Working Temperature: -10°C to +40°C• Storage Temperature: -20°C to +85°C• Relative Humidity: 10%~95%, non-condensing <p>Standard package of OLT Stick Module</p> <ul style="list-style-type: none">• Product size: 8.6 x 2.0 x 1.8 cm(L*W*H)• Package size: 12.1 x 6.2 x 3.1 cm(L*W*H)• Package Weight: N.W: 0.04kg; G.W: 0.05kg• Package content: 1 x MiniOLT, 1 x Heatsink, 1 x QIG. <p>Standard carton package</p> <ul style="list-style-type: none">• Quantity: 200pcs / 1 carton• Dimensions 61.1 x 47.1 x 28.7cm (L*W*H)• Weight 11.67kg (G.W) <p>Standard package of Media Converter</p> <ul style="list-style-type: none">• Product size: 10.5 x 7.2 x 3.0 cm(L*W*H)• Package size: 16.6 x 12.0 x 9.0 cm(L*W*H)• Package Weight: N.W: 0.2kg; G.W: 0.35kg• Package content: 1 x Media Converter, 1 x Power Adapter <p>Standard carton package</p> <ul style="list-style-type: none">• Quantity: 20pcs / 1 carton• Dimensions 52.5 x 43.0 x 19.5cm (L*W*H)• Weight 7.65kg (G.W) <p>Ordering information</p> <ul style="list-style-type: none">• AirLive MiniOLT- 2.5GPON 1 PON Ports MiniOLT-2.5GPON with Media Converter 2.5G

* Specification will be changed without prior notice

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