

SOFTTEL

ONT-8GE-POE

xPON POE MDU



Security monitoring scene



G/EPON dual mode



PoE/PoE+



Gigabit Ethernet port



Product Overview

ONT-8GE-POE series xPON MDU products are specially designed for FTTB/FTTO/POL application scenarios, providing multi-port data services based on xPON network.

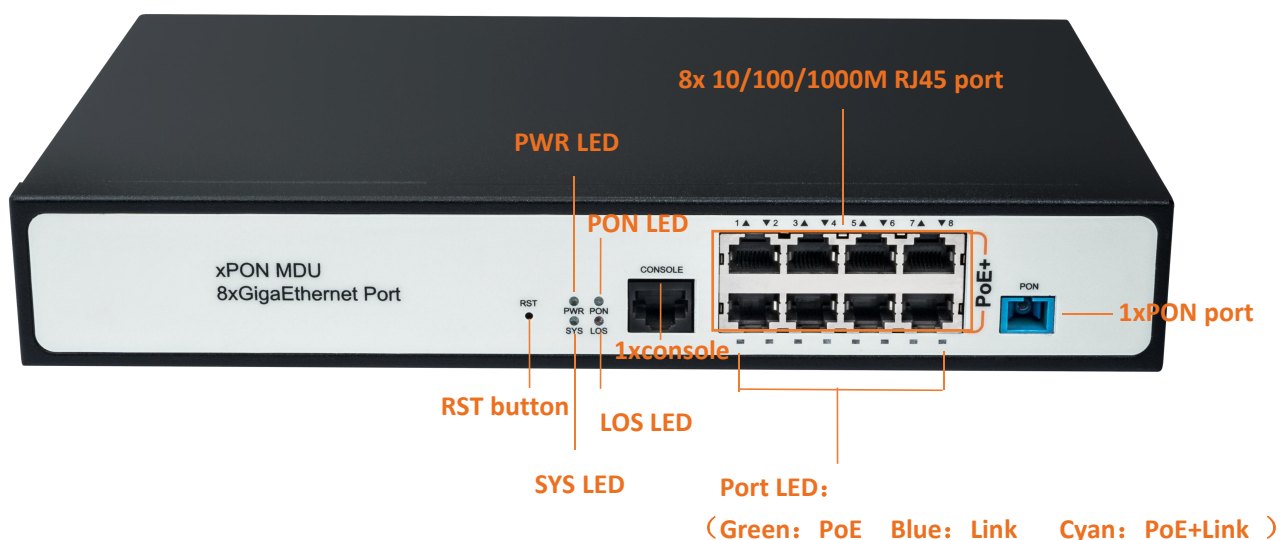
The product provides 1 G/EPON adaptive PON port for uplink, 8 10/100/1000BASE-T electrical ports for downlink, and supports PoE/PoE+ function (optional). It is used for data transmission and can supply power to connected cameras, APs and other terminals.

ONT-8GE-POE series products have the characteristics of high reliability, quality of service (QoS) guarantee, simple management, flexible upgrade and expansion, and convenient networking. All functions and performance indicators of the equipment are in line with ITU-T/IEEE related recommended standards and related international standard technical specifications, and have good compatibility with the central office OLT of mainstream manufacturers.

Functional Characteristics

- Comply with ITU-T G.984, IEEE802.3ah standard
- Support PoE/PoE+ function (optional)
- Support ONU automatic discovery/link detection/software remote upgrade
- Support multiple registration methods of SN and LOID+Password
- Support WEB/CLI/SNMP management
- Supports Dynamic Bandwidth Allocation (DBA)
- Support AES encryption and decryption
- Support broadcast anti-storm function
- Support IGMP/MLD Snooping
- Support ACL control
- Support MAC address learning
- Support port-based speed limit
- Support port flow control
- Support loop detect
- Support VLAN/VLAN Stacking/QINQ
- Support PoE/PoE+ management

Ports and Indicators



Indicator Definition

Indicator		Describe
PWR	Power Indicator	On: The power supply to the device is normal Off: The power supply to the device is abnormal
PON	PON Link Indicator	On: The optical link has been established Off: Discovery and registration not completed
SYS	System indicator	Blinking: The device has been started Off: The device is not running or is starting
LOS	Light signal indicator	On: No optical signal input or abnormal optical signal input Off: Optical signal input is normal
POE	POE status indicator	On (Green) : PoE power supply is working Off: PoE power supply is down
LAN	Network port connection indicator	On (Blue) : The network port has been connected Blinking: Data is being transmitted on the network port Off: The network port is not connected
PoE+LAN	PoE+LAN indicator	On (Cyan) : port has been connected and PoE is working Blinking: Data is being transmitted on the network port Off: The network port is not connected

Hardware Features

● GPON/EPON interface

- Single Mode Single Fiber
- GPON: FSAN G.984.2 standard
- EPON: 1000BASE-PX20+ Symmetrical
- GPON: 2.488Gbps/1.244Gbps downlink/uplink
- EPON: 1.25Gbps downlink/uplink
- Wavelength:
 - Transmit: 1310nm Receive: 1490nm
- Receive Sensitivity:
 - GPON: -28dBm EPON: -27dBm
- Saturation Power:
 - GPON: -8dBm EPON: -3dBm
- Transmission Power:
 - GPON: 0.5~5dBm EPON: 0~4dBm

● Weight and Dimensions

- Dimension :
 - 280mm (L) x 185mm (W) x 44mm (H)
- Weight :
 - about 1.62kg

● User Interface(LAN)

- RJ-45 connector:
 - 8* 10/100/1000Mbps adaptive network port
- Full/Half Duplex
- Auto MDI/MDI-X

● Indicator

- PWR / PON / LOS / LAN / POE / RUN

● Power Consumption

- Support PoE/PoE+(PSE)
- PSE output voltage: 48V DC
- PoE output power: 120W
 - Single port maximum output power: 30W
- Maximum machine power consumption: <=20W

● Environmental parameters

- Operating temperature: -10 to 50°C
- Working humidity: 10% to 90%

Software Features

- **management style**
 - EPON : OAM/WEB/CLI/SNMP
 - GPON : OMCI/WEB/CLI/SNMP
- **Register**
 - Automatic discovery/link detection/remote software upgrade
 - Automatic/MAC/SN/LOID+password authentication
- **swap settings**
 - Mac address learning
 - Basic port configuration
 - Broadcast storm suppression
 - Loop detect
 - VLAN
 - QOS
- **Multicast**
 - IGMP V1/V2/V3
 - IGMP VLAN
 - IGMP-Snooping、MLD Snooping
- **Security**
 - ACL,Support filtering based on MAC and IP address
- **PoE management**
 - PoE Port AdminState
 - PoE Port Priority Setting
 - PSE Overheated Protection
 - PoE display and maintenance

Network application

- Typical Access Scheme: POL
- Typical business: Broadband Internet/Data Access

