

ONU (Optical Network Unit)

GPON/ EPON ABBXR- 1GE



Features

- GPON working mode Compliance with IEEE 802.3ah & itu-t g.984.x standard
- Chipset: Realtek 9601D
- GPON:8 T-CONTs,32 GEM Ports
- EPON working mode compliant with IEEE 802.3ah specification and OAM protocol
- Supports the WEB configuration function
- Support SFU and HGU types, can switch to use each other
- HGU type,Support PPPoE/ Static IP/ DHCP
- Layer 2 Switching, support 802.1Q VLAN, 802.1P QOS, Bandwidth Control, Spanning Tree, etc
- Layer 3 Home Gateway/CPE features with Hardware NAT, supports Route mode, etc
- Supports the configuration of Ethernet interface rates, working modes,MDI/ MDIX auto-negotiation mode, and Pause flow control
- Provides performance statistics on all Ethernet lines
- Support multicast IGMP snooping
- Supports the L2 wire speed forwarding
- Supports the AES-128 algorithm for data encryption of downlink data

Applications

ABBXR-1GE ONU is a user terminal device independently developed by SUPERLINK based on this industry background. The device has built-in two-layer switching function. Small and compact, it is a high-performance, low-power FTTH optical network unit. ABBXR-1GE ONU can automatically switch the EPON/GPON working mode and can be used in EPON/GPON networks, which is very suitable for the following application requirements. Various data services under various operator FTTH networking scenarios.

Description

A passive optical network (PON) is a fiber-optic telecommunications technology for delivering broadband network access to end customers. Its architecture implements a point-to-multipoint topology in which a single optical fiber serves multiple endpoints by using unpowered (passive) fiber optic splitters to divide the fiber bandwidth among the endpoints. Passive optical networks are often referred to as the last mile between an Internet service provider (ISP) and its customers.

Detailed product specifications

1 Hardware Specifications

Size (L*W*H)	90mm (L) ×90mm (W) ×24mm (H)
Optical signal access	EPON/GPON
User interface	1GE
Indicator light	POWER/PON/LOS/LAN
Button	Power switch Button, Reset Button
Weight	95g
Power adapter input	100V~240V AC, 50Hz~60Hz
PowerSupply requirement	12V DC, 0.5A
Power consumption	<6w
Working temperature	-10°C ~ +45°C
Environment humidity	5% ~ 95% (Non-condensing)

2 PON Interface

Module type	SC/UPC
Working wavelength	up 1310nm, down 1490nm
TX Optical power value	0.5~4dbm
RX Optical power sensitivity	-27dBm
Transmission distance	0~20km
Transmission rate	GPON:Uplink 1.244Gbps; downlink 2.488Gbps EPON:Uplink 1.244Gbps; downlink 1.244Gbps

3 Ethernet interface

Interface type	RJ45
Interface parameters	1 x 10/100/1000Mbps auto adaptive Ethernet interfaces