ONU (Optical Network Unit)
EPON BOAER-1GE

Features

- Compliance with IEEE 802.3ah & itu-t g.984.x standard
- GPON:8 T-CONTs,32 GEM Ports
- Supports the WEB configuration function
- Layer 2 Switching, support 802.1Q VLAN, 802.1P QOS, Bandwidth Control, Spanning Tree, 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

BOAER-1GE ONU is a user terminal device independently developed by s u p e r l i n k in line with such industrial background.The device has built-in two-layer switching function . With compact structure and small appearance, it is a kind of FTTH GPON optical network unit with high performance and low power consumption, which is very suitable for the application requirements of various data services in FTTH networking scenarios of various operators.

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	1*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	Class B+ 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	Uplink 1.244Gbps；downlink 2.488Gbps

3 Ethernet interface

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