ONU GPON/EPON
GABXR-4GE+1USB+1VOIP+2.4G+5GWIFI+CATV

Features

- Support EPON/GPON mode and switch mode automatically
- GPON:Compliance with IEEE 802.3ah & itu-t g.984.x standard
- GPON:8 T-CONTs,32 GEM Ports
- Integrate OMCI(GPON)/OAM(EPON) and TR-069 remote configuration and maintenance
- Layer 3 Home Gateway/CPE features with Hardware NAT, support Multiple WAN, Route/Bridge mode
- Layer 2 Switching, support 802.1Q VLAN, 802.1P QOS, Bandwidth Control, Spanning Tree, etc
- Support PPPoE/ Static IP/ DHCP
- Bi-directional FEC
- Support IPv4, IPv6 and IPv4/IPv6
- Support firewall level Settings, support based on URL/MAC/ IP/ address frame filtering
- Support multicast IGMP v2 proxy/ snooping, support MLD proxy/ snooping
- Qos supports PQ, WRR, and CAR queue scheduling
- Provide Maximum rate 300Mbps 2.4GHz Wireless interface,and Maximum rate 866Mbps 5.8GHz Wireless interface,2T2R external antenna, support multiple SSID Settings
- Support DDSN, ALG, DMZ and UPNP
- Provide POTS interface, support SIP protocol，POTS integrated circuit test complies GR-909
- Support CATV interface for Video Service，support to turn off CATV functionality

Applications

This type 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 and three-layer routing function. With compact structure and small appearance, it is a kind of FTTH 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. The product can be adapted to EPON and GPON networks without replacing equipment and firmware.

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）	155mm (L) ×113mm (W) ×28mm (H)
Optical signal access	1*GPON/EPON
User interface	4GE+1VOIP+2.4G/5.8G WLAN+1USB+CATV
Indicator light	POWER、PON、LOS、LAN1、LAN2、LAN3、LAN4、TEL1、USB、2.4G、5G、WPS、CATV
Button	Power switch Button, Reset Button, WLAN Button, WPS Button
Weight	300g
Power adapter input	100V～240V AC，50Hz～60Hz
PowerSupply requirement	12V DC，0.5A
Power consumption	<10w
Working temperature	-10°C ~ +45°C
Environment humidity	5% ~ 95% (Non-condensing)

2 PON Interface

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

3 Ethernet Interface

Interface type	4*RJ45
Interface parameters	4*10/100/1000Mbps auto adaptive Ethernet interfaces

4 Wireless

Working mode	IEEE 802.11 b/g/n
Antenna pattern	External 2*2T2R External antenna
Antenna gain	5dBi
Wireless bandwidth	Support 20MHz/40MHz/80MHz
Interface rate	2.4G|5.8g WLAN：Maximum rate 300Mbps | 866Mbps
SSID	Up to 4 SSID broadcasts are supported

5 POTS Interface

Interface type	1* RJ11
Voice agreement	SIP
Codecs	G.711/G.723/G.726/G.729
Integrated circuit protocol	Gr-909 protocol is applicable

6 CATV Interface

Optical receiving wavelength	1550±10nm
Optical reflection loss	≥45dBm
RF, WDM, optical power	+2~-15dBm
RF frequency range	47~1000MHz, RF output impedance: 75Ω
RF output level	78dBuV
AGC range	0~-12dBm
MER	≥32dB@-15dBm