ONU GPON FBBGM_1GE+3FE+2USB+1VOIP+2.4G+5GWIFI

Zion Code and Description

Zion Code	Zion Description
7221167	ONU GPON FBBGM_1GE+3FE+2USB+1VOIP+2.4G+5GWIFI

Features

- Support GPON mode and switch mode automatically
- GPON working mode Compliance with IEEE 802.3ah & itu-t g.984.x standard
- GPON:8 T-CONTs,32 GEM Ports
- Integrate OMCI 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 2.4GHz Wireless interface,Maximum rate 300Mbps,2T2R external ;
  5.8GHz Wireless interface, Maximum rate 866Mbps,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

Applications

This type ONU is a user terminal device independently developed by ZION COMMUNICATION 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 EPON 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.

Zion Communication's Hot ONU types

Zion Code	Zion Description
7221167	ONU GPON FBBGM_1GE+3FE+2USB+1VOIP+2.4G+5GWIFI
7221044	ONU XPON BCCXR 2GE+1USB+2.4G+5GWIFI
7221071	ONU XPON GAAXR 4GE+1USB+2VOIP+2.4G+5GWIFI+CATV
7221075	ONU XPON GFBXR 4GE+1USB+1VOIP+2.4G+5GWIFI
7221162	ONU GPON FOAGB 1GE+3FE+USB+1VOIP+2.4GWIFI
7221166	ONU GPON FBAGM_4GE+2USB+1VOIP+2.4G+5GWIFI

Detailed product specifications

1 Hardware Specifications

Size（L*W*H）	205mm (L) ×140mm (W) ×30mm (H)
Optical signal access	1*GPON
User interface	1GE+3FE+VOIP+2.4G/5.8G WLAN+2USB
Indicator light	WPS/TEL/5G/2.4G/LAN1/LAN2/LAN3/LAN4/INTERNET/LOS/PON/ POWER
Button	Power switch Button, Reset Button, WLAN Button
Weight	350g
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/PC
Working wavelength	up 1310nm，down 1490nm
TX Optical power value	0.5～4dbm
RX Optical power sensitivity	Receiver sensitivity：-28dBm
Transmission distance	0～20km
Transmission rate	Uplink 1.244Gbps；downlink 2.488Gbps

3 Ethernet Interface

Interface type	1*RJ45
Interface parameters	1*10/100/1000Mbps auto adaptive Ethernet interfaces and 3*10/100Mbps auto adaptive Ethernet interfaces

4 Wireless

Working mode	IEEE 802.11 b/g/n/AC
Antenna pattern	External 2*2T2R External antenna
Antenna gain	5dBi
Wireless bandwidth	Support 20MHz/40MHz/80MHz
Interface rate	2.4G WLAN：Maximum rate 300Mbps 5.8G WLAN：Maximum rate 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