ONU GPON/EPON
BBFXR-1GE+2.4GWIFI

Zion Code and Description

Zion Code	Zion Description
7221043	ONU GPON/EPON BBFXR-1GE+1VOIP+2.4GWIFI

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
- 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 300Mbps 2.4GHz Wireless interface,2T2R external antenna, support multiple SSID Settings,
- Support DDSN, ALG, DMZ and UPNP

Applications

BBFXR-1GE 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 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. BBFXR is an XPON product that 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.

Zion Communication's Hot ONU types

Zion Code	Zion Description
7221043	ONU GPON/EPON BBFXR-1GE+2.4GWIFI
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
7221167	ONU GPON FBBGM 1GE+3FE+2USB+1VOIP+2.4G+5GWIFI

Detailed product specifications

1 Hardware Specifications

Size（L*W*H）	155mm (L) ×113mm (W) ×28mm (H)
Optical signal access	1*GPON/EPON
User interface	1GE+2.4G WLAN
Indicator light	POWER、PON、LOS、LAN1、WIFI、WPS
Button	Power switch Button, Reset Button, WLAN Button, WPS Button
Weight	192g
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	Class B+ SC/UPC
Working wavelength	up 1310nm，down 1490nm
TX Optical power value	0.5～4dbm
RX Optical power sensitivity	-28dBm
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	1*RJ45
Interface parameters	1*10/100/1000Mbps and 1*10/100Mbps

4 Wireless

Working mode	IEEE 802.11 b/g/n
Antenna pattern	External 2T2R External antenna
Antenna gain	5dBi
Wireless bandwidth	Support 20MHz/40MHz
Interface rate	Maximum rate 300Mbps
SSID	Up to 4 SSID broadcasts are supported