
XPON ONU 1GE+1FE+1POTS+WiFi(2.4G)



1. Overview

The XPON ONU series were designed and produced by our company, XPON ONU 1GE+1FE+1POTS+ WiFi(2.4G) is a multi-service XPON terminal product with high reliability, high quality, easy management, flexible upgrade and expansion. It is based on the mature GPON&EPON technology, highly reliable and easy to maintain, with guaranteed QoS for different service. And it is fully compliant with technical regulations such as IEEE 802.3ah and ITU-TG.984.

2. Features

- Dual mode, full compatible with ITU-T G.984 or IEEE 802.3ah
- Support Web for local management
- Support Auto-negotiation and MDI/MDIX
- Support the Ethernet interface rate, working mode and flows control
- Support loopback at UNI
- Support packet filtering and anti-illegal message attack protection
- Support performance statistics of Ethernet lines
- Support VLAN tagged label processing, traffic classification etc.
- Support DHCP Option60 reporting the location information of the Ethernet interface
- Support IGMP Snooping
- Support SIP Call protocol
- Compliant with 802.11 b/g/n wireless standard protocol
- WAN supports routing mode or bridge mode or routing/bridge hybrid mode
- Support for IPv4 and IPv6 dual stacks
- Support OAM/OMCI and TR069 for remote management
- Fully compatible with Huawei, Fiberhome, and ZTE OLT

3. Hardware Parameter

Item	Parameters	Specification	
PON	PON Port	1 G/EPON Optical Interface: Single Fiber: 1*SC/UPC Fiber;	
	Rate	Upstream: GPON:1.244Gbps EPON:1.25Gbps	downstream: GPON:2.488Gbps EPON:1.25Gbps
	Type	BOSA	
	Wavelength	Tx 1310nm, Rx 1490nm	
	Optical Output Power	GPON:+0.5~+5dBm EPON:-1~+4dBm	
	Sensitivity	GPON:-28dBm EPON:-26dBm	
	Overload	GPON:-8dBm EPON: -3dBm	
UNI	LAN	1*10/100/1000Mbps and 1*10/100Mbps Full / Half-Duplex, RJ45, Auto-MDI/MDI-X	
	POTS	1 FXS, RJ11	
	Wireless	IEEE802.11b/g/n, 300Mbps, 2T2R, 2 External	
Environmental Specifications	Shell	Plastic casing	
	Power	External DC 12V/1.5A power supply adapter	
	Power consumption	<9W	

	Dimensions	160mm(L)*114mm(W)*29mm(H)
	Weight	<0.3kg
	Environment	<p>Operating Temperature: 0 ~ 50°C</p> <p>Storage Temperature: -40 ~ 85°C</p> <p>Operating Humidity: 10% ~ 90% (Non-condensing)</p> <p>Storage Humidity: 10% ~ 90% (Non-condensing)</p>

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4. Functions

Function	Parameter
GPON Feature	Compliant with ITU-T G.984 GPON standard FEC (Forward Error Correction) in both upstream and downstream Dynamic bandwidth status report 802.1p mapper for upstream QoS scheduling based on SP or WRR between GEM port and T-CONT Downstream multicast GEM port and broadcast GEM port
EPON Feature	IEEE 802.3ah EPON standard EPON interworking standard of China Telecom and China Unicom 20Km transmission distance on single fiber 128Bits uplink and downlink triple-churning Standard OAM and Extension OAM management ONU software batch upgrading PON port support optical power detection
Gateway Feature	WAN support Router and Bridge mode Router mode supports PPPoE/DHCP/ static IP WAN support Internet、IPTV、 TR069 LAN supports DHCP and static IP Support NAT and NAPT

	Support UPnP
GPON OMCI	Standard OMCI compliant with ITU-T G.988
Feature	Remote software upgrade through OMCI
EPON OAM	CTC 3.0 standard of China Telecom
Feature	Remote software upgrading through OAM

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5. VOIP Feature

Item	Parameter
Call protocol	SIP, seamless compatible with all popular call agent
Voice coding	ITU-T G.711/G.723.1(5.3K/6.3Kbit/s)/G.729, auto-negotiate with call agent
IP address assignment	Dynamic PPPoE/DHCP Client and static IP
Call loss	Less than 0.01%
Functions	Integrate heartbeat function and support active/standby call agent
	Echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length
	Support high/low speed fax, bypass fax, and T38 fax
	Support RFC2833 and redundant RFC2833, difference rings, MD5 authentication, call forward, call waiting, hot-line call, alarm clock, and all kinds of value-added voice service
	Multi-party conferencing
	Line testing according to GR-909

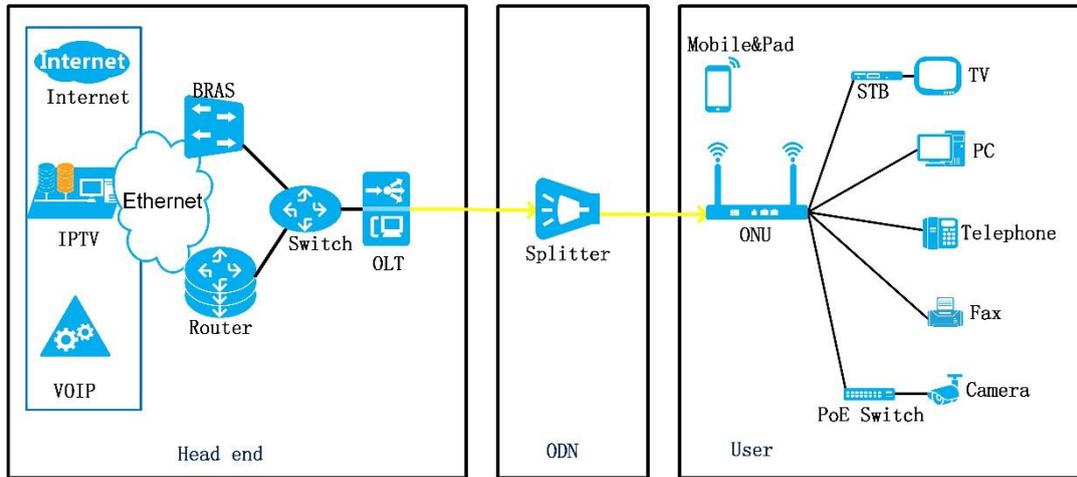
6. WIFI Feature

Item	Parameter	
Function	Operating Mode	Router or bridge
	Antenna gain	5dBi
	Throughput	IEEE 802.11b: 11Mbps IEEE 802.11g: 54 Mbps IEEE 802.11n: 300Mbps
	Frequency	2.412 ~ 2.472 GHz
	Channel	13*Channel
	Modulation	DSSS , CCK and OFDM
	Coding	BPSK, QPSK, 16QAM and 64QAM
	RF receive sensitivity	802.11b: -83dBm @ 1 Mbps; -80dBm @ 2 Mbps; -79dBm @ 5.5 Mbps; -76dBm @ 11 Mbps 802.11g: -85dBm @ 6 Mbps; -84dBm @ 9 Mbps; -82dBm @ 12 Mbps; -80dBm @ 18 Mbps; -77dBm @ 24 Mbps; -73dBm @ 36 Mbps; -69dBm @ 48 Mbps; -68dBm @ 54 Mbps 802.11n 20MHz: -74dBm @ 65 Mbps; -70dBm @ 130 Mbps;

		802.11n 40MHz: -70dBm @ 135 Mbps; -67dBm @ 300 Mbps;
	RF output level	802.11b: 17 ±0.5dBm @11Mbps 802.11g: 15 ±0.5dBm @ 54 Mbps; 16 ±0.5dBm @ 48 Mbps; 17 ± 1dBm @ 6 ~ 36 Mbps 802.11n 20MHz: 14 ± 0.5dBm @ 130 Mbps; 15 ± 0.5dBm @ 78 Mbps; 18 ± 0.5dBm @ 6.5 Mbps 802.11n 40MHz: 14 ± 0.5dBm @ 300 Mbps; 15 ± 0.5dBm @ 162 Mbps; 18 ± 0.5dBm @ 13.5 Mbps
	Encryption Mode	802.11i security: WEP-64/128, TKIP (WPA-PSK) and AES (WPA2-PSK)

7. Network Application

FTTH Solution



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8. Ordering information

Product Type
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