FD812XW-R460

1GE+1FE+1POTS+WIFI+CATV XPON ONU

**High Speed CPU**   **Low Power Consumption**   **Software Customization**   **Optional Shell Supply**

Brief Views

FD812XW-R460 is an indoor fiber broadband access terminal. The device provides one GPON / EPON adaptive optical port and supports XPON mode. It can be used in connection with our company FD16 series GPON OLT or FD11 / 12 series EPON OLT. It can also interconnect with the mainstream manufacture (Huawei / ZTE / Fiberhome) GPON or EPON OLT to provide users with Internet,WIFI, VOIP and CATV services based on GPON and EPON technology.
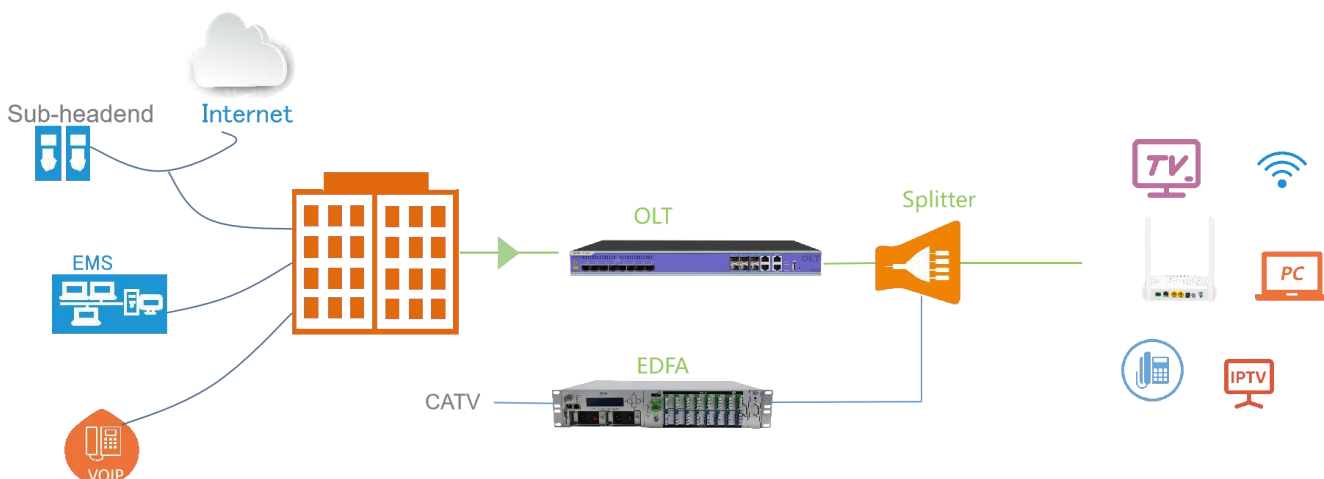
Functional Feature

- In compliant with IEEE802.3ah and ITU - T G.984 standard
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support SN and LOID+Password multiple registration methods
- Support port VLAN configuration
- Support port-based rate limitation and bandwidth control
- Support MAC address learning
- Support MAC address learning account limit
- Support VLAN transparent/tag/translate/trunk
- Support remote CATV port management

- Support broadcasting storm resistance function
- Support igmp transparent/snooping/proxy mode
- Support Dynamic Bandwidth Allocation (DBA)
- Support AES encryption and decryption
- EMS network management based on SNMP ,convenient for maintenance
- Support power-off alarm function ,easy for link problem detection
- Support Firewall
- Support MAC address/URL filter
- Support remote WEB/Telnet access control
- Single-fiber access provides internet, VOIP,CATV,WIFI, multiple service

Product Interface and LED

WIFI antenna

TEL Port   PWR Port

Fiber Port   FE   GE   Switch RF
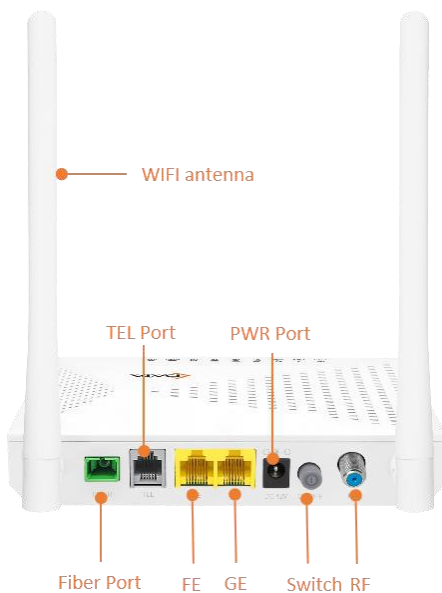
① PWR
② PON
③ LOS
④ INT
⑤ GE
⑥ FE
⑦ TEL
⑧ CATV
⑨ WIFI

①②③④⑤⑥⑦⑧⑨

LED Definitions

Indicator		Description
PWR	Power status	On: The ONT is power on; Off: The ONT is Power off;
PON	ONT Register	On: Success to register to OLT; Blinking: In process of registering to OLT; Off:Failed to register to OLT or no normal optical signal input;
LOS	PON optical signals	On: Optical power lower than receiver sensitivity; Off: Optical in normal;
GE/FE	LAN port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
INT	Internet status indicator	On: The routed WAN Internet access service is normal. Off: The routed WAN Internet access service is abnormal.
TEL	Telephone port status	On:The connection between the TEL port and the voice server has been set up Blinking:The voice service of the TEL port is established; Off:The connection between the TEL port and the voice server is not set up.
CATV	CATV status	On: CATV optical normal Off:The CATV signals are not received
WIFI	WIFI	Blinking :Data is being transmitted On:WIFI function Opens

Product Specification

Mechanics	
Dimensions	214*139.5*32mm
Weight	About 300g

Hardware		
User Port (LAN)		RJ-45 connector
		1*10/100 and1 *10/100/1000Mbps adaptive Ethernet port
		Full/half duplex
		Auto MDI/MDI-X
Indicators		PWR / PON / LOS / GE / FE / INT / TEL / CATV / WIFI
PON Port	PON Mode	EPON：1000BASE-PX20+ symmetric GPON：FSAN G.984.2 standard,Class B+
	PON Rate	EPON：1.25Gbps downstream/upstream

		GPON：2.488Gbps/1.244Gbps downstream/upstream	
	Wavelength	Transmit: 1310nm	Receiver: 1490nm
	Receiving sensitivity	EPON：-27dBm GPON：-28dBm	
	Saturated power	EPON：-3dBm GPON：-8dBm	
	Transmitting power	EPON:0～4dBm GPON：0.5～5dBm	

CATV （Input /Output port）

Wavelength: 1550nm
Input optical power: -18dBm～0dBm(with AGC)
RF frequency: 47MHz~1000MHz
RF output level: 78dBuV (@-12~-2dBm@85MHz) (with AGC)
RF output return loss: >12dB(with AGC)
RF impedance: 75 Ω

User Port(POTS)

RJ-11 connector
1*accounts
SIP protocol
TDMF
G711U/G711A/G729/G722 encoding and decoding

WIFI

IEEE802.11b/g/n(2.4G)
Max rate: 300M(2.4G)
MAX TX power 2.4G:17dBm

Environment

Working temperature	0 to 40° C
Operating humidity	10% ~ 90% (Non-condensing)

Power

External 12VDC/1A power supply adapter	
Power consumption	≤7.7W