

## FD212HW HGU TYPE EPON ONU



### INTRODUCTION:

FD212HW is one of the EPON optical network unit design to meet the requirement of the broadband access network. It applies in FTTH/FTTO to provide the data, voice and video service based on the EPON network.

FD212HW provide one POTS ports, two FE auto-adapting Ethernet ports and one 802.11 n/b/g WiFi port. The FD212HW features high-performance forwarding capabilities to ensure excellent experience with VoIP, Internet and HD video services. Therefore, the FD212HW provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment. It has good third-party compatibility to work with the third party OLT, such as Huawei/ZTE/Fiberhome/Alcatel-Lucen.

### Features:

- Full compatible with IEEE802.3ah
- Support one POTS
- Support two FE auto-adapting Ethernet ports
- Support one 802.11 n/b/g Wi-Fi port
- Support OAM and TR069 for remote management

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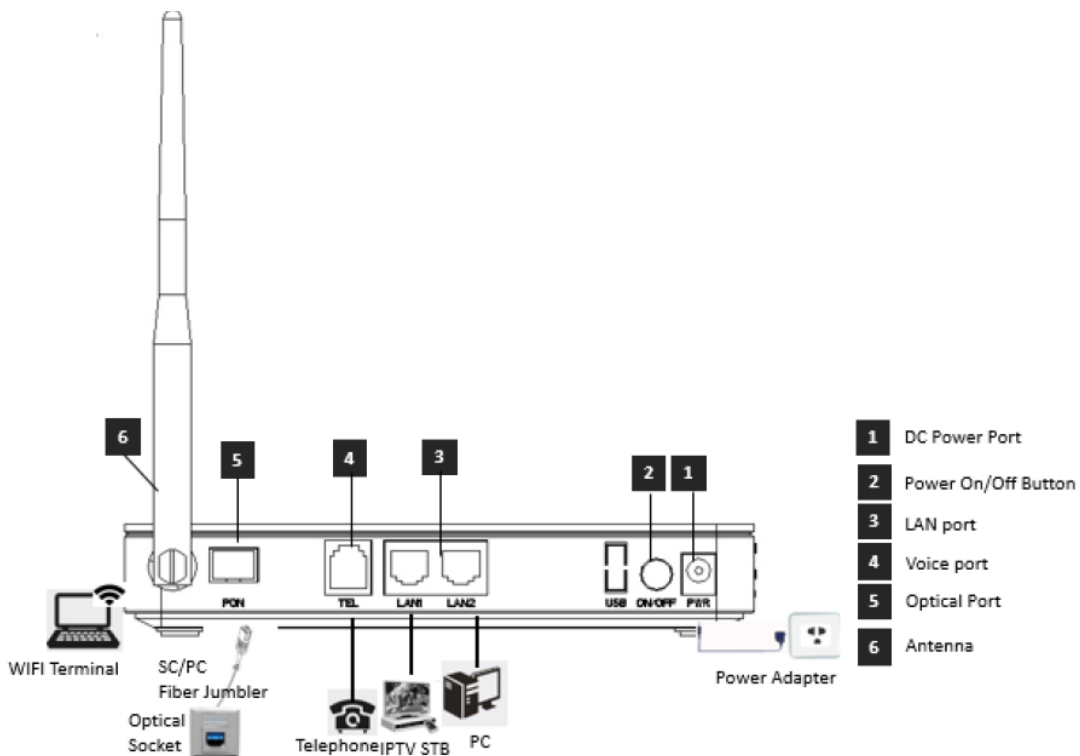
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- Support Web for local management
- Support Auto-negotiation and MDI/MDIX
- Support the Ethernet interface rate, working mode and flows control
- Support loopback at UNI
- Support packet filtering and anti-illegal message attack protection
- Support performance statistics of Ethernet lines
- Support VLAN tagged label processing, traffic classification and packet filtering, STP/RSTP etc.
- Support DHCP Option60 reporting the location information of the Ethernet interface
- Support PPPoE+ for accurate subscribers identification
- Support H.248、MGCP and SIP protocol
- Support IGMP Snooping
- Support AES-128

## PRODUCT INTERFACE & LED DEFINITIONS:

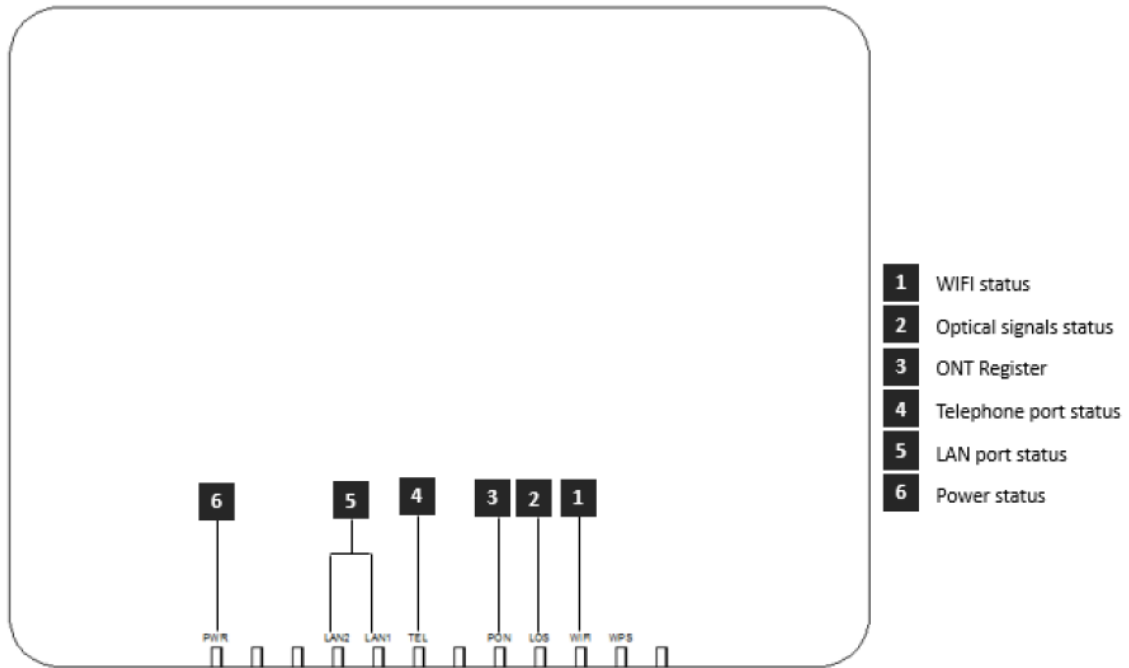


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## Technical Specification:

ITEM	PARAMETERS	SPECIFICATION
Interface	PON PORT	1 EPON optical interface Meet 1000BASE-PX20+ standard Symmetric 1.25Gbps upstream/downstream SC single-mode fiber split ratio: 1:64 Transmission distance 20KM
	ETHERNET PORT	2*10/100M Auto-negotiation RJ45 ports Full Duplex / Half-Duplex RJ45, Auto-MDI/MDI-X Transmission Distance 100 Meter
	POTS PORT	1*RJ11 with 3REN Max 1km distance Balanced Ring, 55V RMS
	POWER SUPPLY PORT	12V DC input With 12V 1A AC/DC adapter AC input
Management	Network Management	Standard compliant OAMI interface as defined by IEEE802.3ah Support TR-O69 and WEB

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		management
	Management Function	Status monitor, Configuration management, Alarm management, Log management
Environmental specification	Shell	Plastic casing
	Power	External 12V 1A AC/DC power supply adapter Power consumption: <7W
	Dimension	170mm(L)*130mm(W)*30mm(H) 0.3kg
	Environment	Operating Temperature : 0~50°C Storage Temperature : -40~85°C Operating Humidity : 10%~90%(Non-condensing)

## WIFI Features

- IEEE 802.11n compliant, 2.4 GHz
- Full IEEE 802.11b/g legacy compatibility with enhanced performance
- Two-stream spatial multiplexing up to 300 Mbps PHY data rates
- Support multi-SSID (Maximum 4 SSID)
- Support automatic channel selection
- Support hide SSID
- Support wireless security of 64/128 bit WEP、802.1x、WPA and WPA2

## WIFI Specification:

WIFI SPECIFICATION		
PERFORMANCE PARAMETER	Standard	IEEE802.11b/g/n
	Frequency	2.400 ~ 2.500 GHz
	Wireless Data Rate	IEEE 802.11b: 1,2,5.5,11Mbps IEEE 802.11g: 6,9,12,18,24,36,48,54Mbps

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		IEEE 802.11n: up to 200 Mbps
Modulation scheme		802.11g: 64QAM, 16QAM, QPSK, BPSK, DSSS 802.11b: CCK, DQPSK, DBPSK HT20: 64 QAM, 16QAM, QPSK, BPSK
Channel		13*Channel, configurable to meet the standard of USA, Canada, Japan and China
RF Receive Sensitivity		802.11b: -96dBm @ 1 Mbps; -93dBm @ 2 Mbps; -91dBm @ 5.5 Mbps; - 88dBm @ 11 Mbps 802.11g: -90dBm @ 6 Mbps; -89dBm @ 9 Mbps; -89dBm @ 12 Mbps; - 867dBm @ 18 Mbps; -83dBm @ 24 Mbps; -79dBm @ 36 Mbps; -75dBm @ 48 Mbps; -75dBm @ 54 Mbps 802.11n: -96dBm @ 1 Mbps;- 88dBm @ 11 Mbps; -90dBm@6Mbps; - 75dBm@54Mbps; -86dBm@m0/20MHz;- 69dBm@m15/20MHz;
RF TX Power		<ul style="list-style-type: none"> <li>•TX power out B mode @ 11 Mbps: 18dBm +/- 2</li> <li>• TX power out G mode @ 54 Mbps: 16dBm +/- 2</li> <li>• TX power 11n mode @ HT20: 16 dBm +/-2</li> </ul>
Encryption Mode		64-bit, 128-bit WEP, AES, TKIP, WPA, WPA2, 802.1x
Transmission Distance		100m indoors coverage area 300m outdoors coverage area (varying depending on the actual environment)

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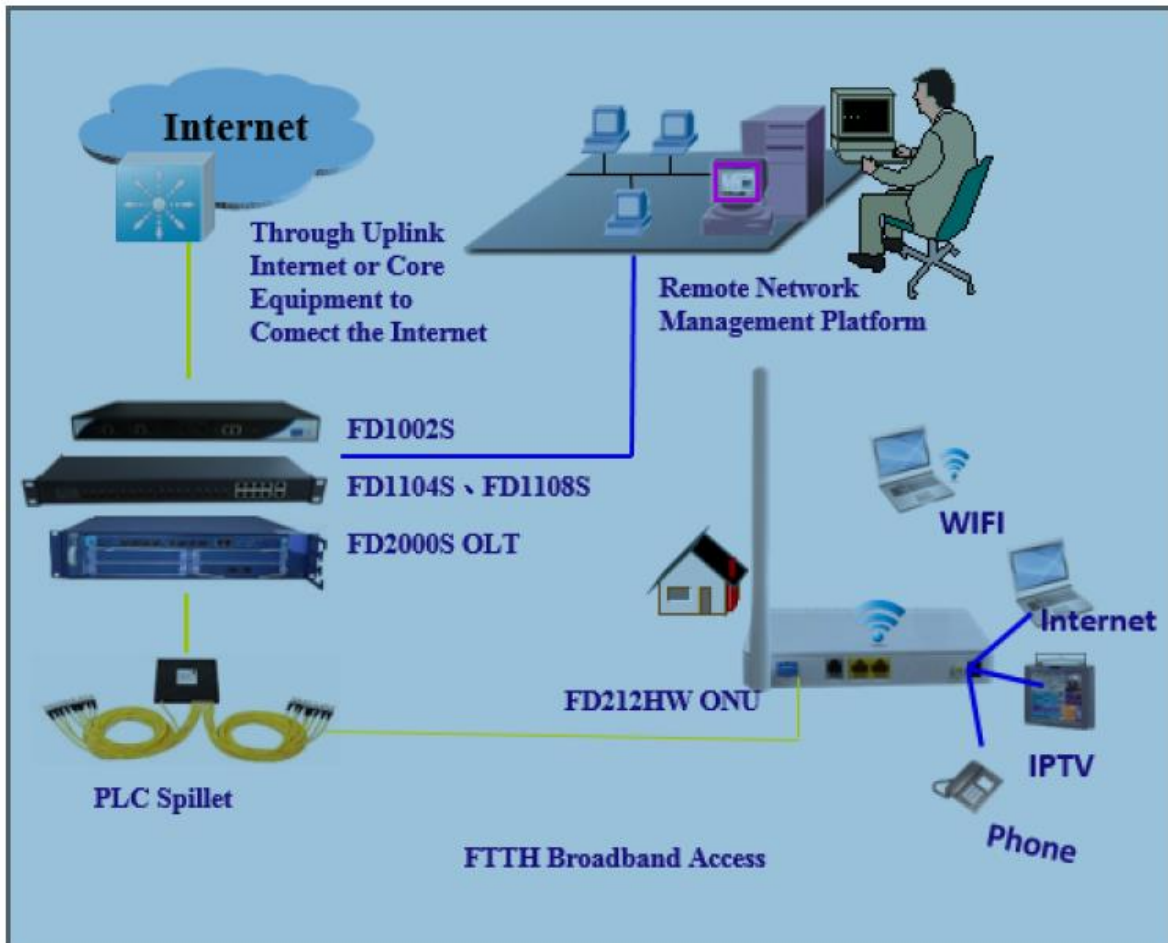
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## Application

- Solution: FTTH、FTTB、FTTO、PON+EOC
- Business: Broadband Internet、Voice、IPTV、VOD、IP Camera、WIFI

## Network Construction:



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