FD212H EPON HGU

✚ Overview

FD212H EPON HGU is one of the EPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH/FTTO to provide the data, voice and video service based on the EPON network.

EPON is the latest generations of access network technology. IEEE802.3ah is the standard protocol of EPON. The EPON standard differs from other PON standards in that it achieves higher bandwidth and higher efficiency using larger, variable-length packets. EPON offers efficient packaging of user traffic, with frame segmentation allowing higher quality of service (QOS) for delay-sensitive voice and video communications traffic.EPON networks provides the reliability and performance expected for business services and provides an attractive way to deliver residential services. EPON enables Fiber To The Home (FTTH) deployments economically resulting to accelerated growth worldwide.

FD212H provide one POTS port, one FE and one FE/GE auto-adapting Ethernet ports. The FD212H features high-performance forwarding capabilities to ensure excellent experience with VoIP, Internet and HD video services. Therefore, the FD212H 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 port

- ■ Support one FE and one FE/GE auto-adapting Ethernet ports

- ■ Support OAM and TR069 for remote management

- ■ 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

⊹ 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(LAN)	1*10/100M and 1*10/100/1000MAuto-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
Management	NetworkManagement	Standard compliant OAM interface as defined by IEEE802.3ah Support TR-069 and WEB management
	Management Function	Status monitor, Configuration management, Alarm management, Log management
LED Indicator	LEDS	PWR: Power LOS: Optical link PON: ONU Register FE: Link Status of Ethernet Interface FE/GE: Link Status of Ethernet Interface TEL: Voice ports
	Shell	Plastic casing
Environmental Specifications	Power	External 12V 1A AC/DC power supply adapter Power consumption: <6W
	Dimensions	160mm(L) x 120mm(W) x33mm (H) 0.2kg
	Environment	Operating Temperature：0～50℃ StorageTemperature：-40～85℃ Operating Humidity：10%～90%(Non-condensing) StorageHumidity：10%～90%(Non-condensing)

⬙ Application

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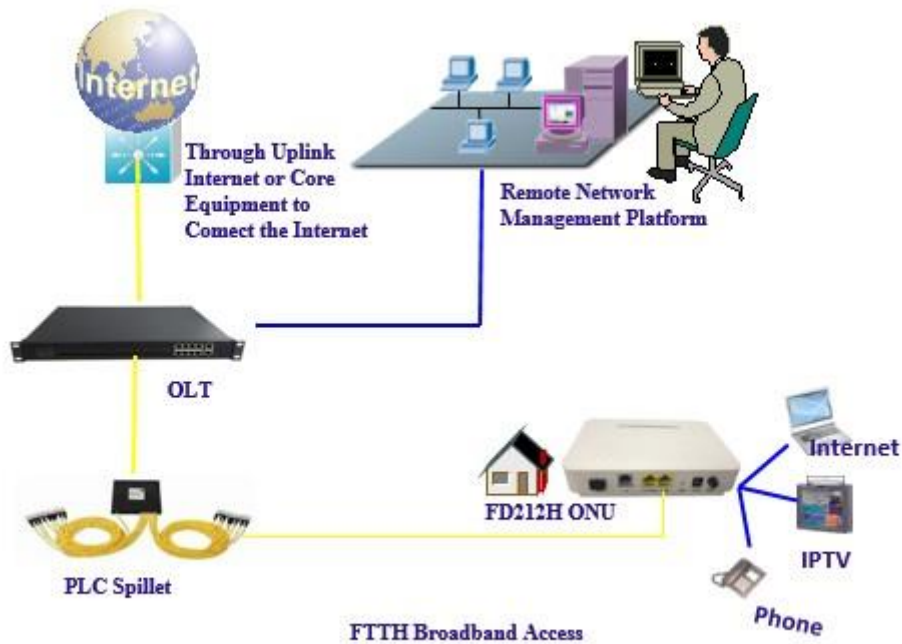- ⬚ Business：Broadband Internet, Voice, IPTV, VOD, IP Camera

⬙ Network Construction

Figure: FD212H Application Diagram

⬙ Ordering information

Product Name	Product Model	Descriptions
HGU EPON ONU	FD212H	1*10/100M and 1*10/100/1000M Ethernet interface, 1*POTS port, 1 EPON interface, plastic casing, external power supply adapter