GEPON ONU FD101HC/FD111HC
DATA SHEET

Product Overview

GEPON ONU FD101HC/FD111HC is designed mainly for FTTH use and FTTO use as well. GEPON ONU FD101HC/FD111HC support 1000Base-PX10/PX20 standard with 1:64/1:32 maximum optical splitting ratio and 10/20km distance, and provide 1uplink GE PON port.

ONU FD101HC/FD111HC together with OLT could realize flexible network structure and maintenance and provide total FTTx solutions.

ONU FD104H adopts single fiber WDM technology with downlink wavelength 1490nm and uplink wavelength 1310nm .It only needs one-core fiber to transmit data service.

ONU FD101HC has 1 PON port and one 10/100BASE-T ports. ONU

FD111HC has 1 PON port and one 10/100/1000BASE-T ports

EPON ONU-FD101HC/FD111HC

Function Features

- Support port-based rate limitation and bandwidth control;

- In compliant with IEEE802.3ah Standard

- Up to 20KM transmission Distance

- Support data encryption, group broadcasting, port Vlan separation ,RSTP, etc.

- Support Dynamic Bandwidth Allocation (DBA)

- Support ONU auto-discovery/Link detection/remote upgrade of software;

- Support VLAN division and user separation to avoid broadcast storm;

- Support power-off alarm function ,easy for link problem detection

- Support broadcasting storm resistance function

- Support port isolation between different ports

- Support ACL and SNMP to configure data packet filter flexibly

- Specialized design for system breakdown prevention to maintain stable system

- Support software online upgrading EMS network management based on

- SNMP ,convenient for maintenance

Specification

Item	Parameters	Specifications
Interface	PON Interface	1 GEPON optical interface Meet 1000BASE-PX20 standard Symmetric 1.25Gbps upstream/downstream SC single-mode fiber split ratio: 1:64 Transmission distance 20KM @ split ratio<1:32
	User Ethernet Interface	1*10/100Mauto-negotiation (FD101HC) 1*10/100/1000Mauto-negotiation (FD111HC) Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
	Power Interface	12V DC Power supply An external 12V 0.5A AC/DC power supply adapter
Performance &Parameters	PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: -1～4dBm Rx Sensitivity: -24dBm Saturation Optical Power: -3dBm Connector Type: SC

Item	Parameters	Specifications
		Optical Fiber: 9/125µm single-mode fiber
	Business Capability	Layer 2 wire speed switching
		Support VLAN TAG/UNTAG，VLAN conversion
		Support Port-based speed limitation
		Support Priority classification
		Support storm control of broadcast
		Support RSTP
Network Management	Management Mode	Support IEEE802.3 QAM, ONU can be remotely managed by OLT
		Support Remote management through SNMP and Telnet
		Local management
	Management Function	Status monitor, Configuration management, Alarm management,
		Log management
Indicator	LED Indicator	PWR: Power up or down
		OPTIN: Optical Link Status
		LINK：ONU Registered
		LAN: Link Status of Ethernet Interface
Physical Features	Shell	Plastic casing
	Power	External 12V 0.5A AC/DC power supply adapter
		Power consumption: < 3.8W
	Physical Specifications	Item Dimension：160mm(L) x 120mm(W) x 30mm (H)
		Item weight：0.2kg
	Environmental Specifications	Operating temperature: 0 to 50 ºC
		Storage temperature: -40 to 85 ºC

Item	Parameters	Specifications
		Operating humidity: 10% to 90% (Non-condensing)
		Storage humidity: 5% to 95% (Non-condensing)

Typical Application

- Typical Solution：FTTH、FTTB、PON+EOC
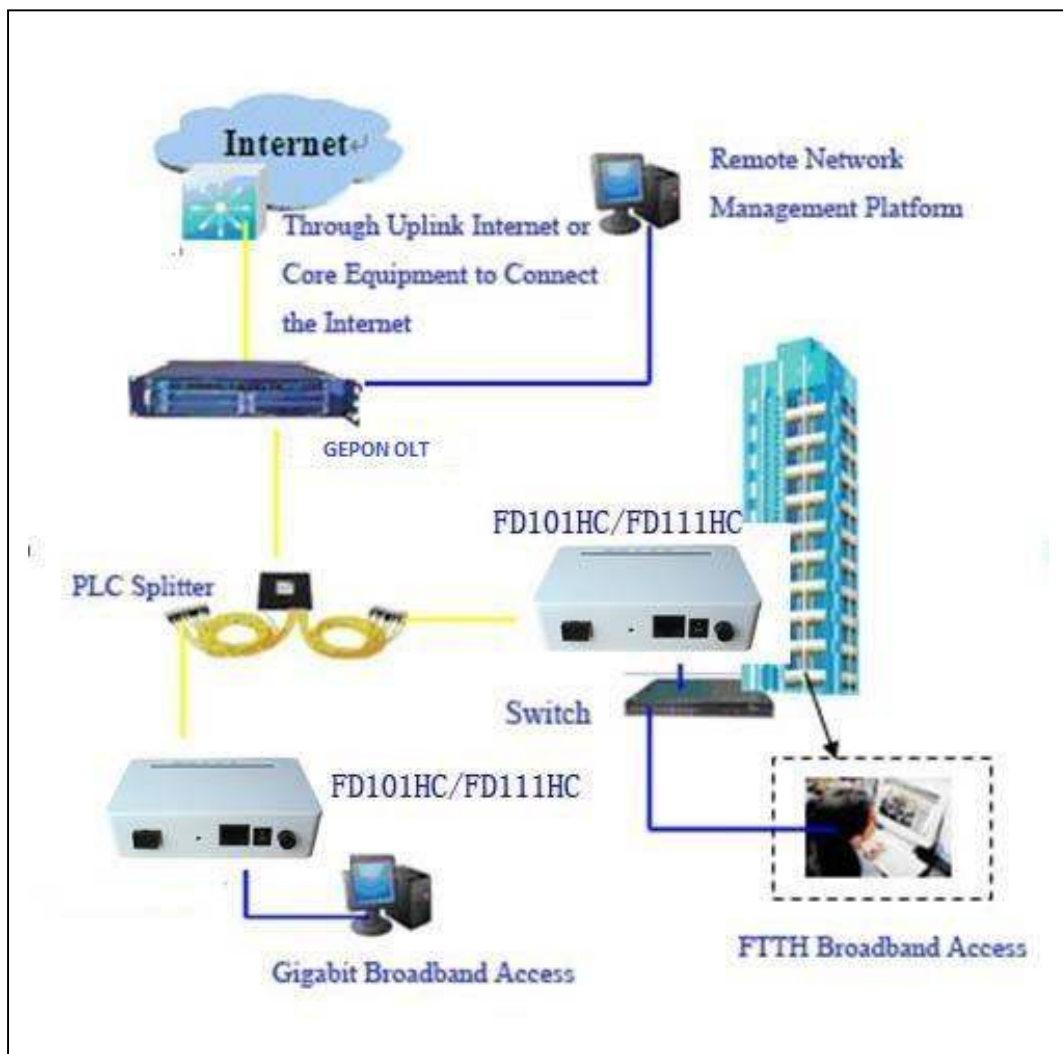- Typical Business：INTERNET、IPTV、VOD、IP Camera

Network Construction

Figure 1: FD101HC/FD111YC Application Diagram