

FD701G-AX-Z310 1GE+CATV Dual-Mode ONT



Overview

FD701G-AX-Z310 dual-mode ONU supports EPON and GPON two modes access. The ONU automatically switches into the corresponding PON mode by identifying the local OLT mode to complete GPON or EPON adaptive access.

FD701G-AX-Z310 is based on the mature, stable, high cost performance gigabit Ethernet switching, WDM and HFC technology. It has a higher bandwidth, higher reliability, easy management and good quality of service (QoS) guarantee with technical performance of equipment meet the ITU G. 984 and IEEE802.3ah requirements and have good compatibility with third party manufacturers OLT.

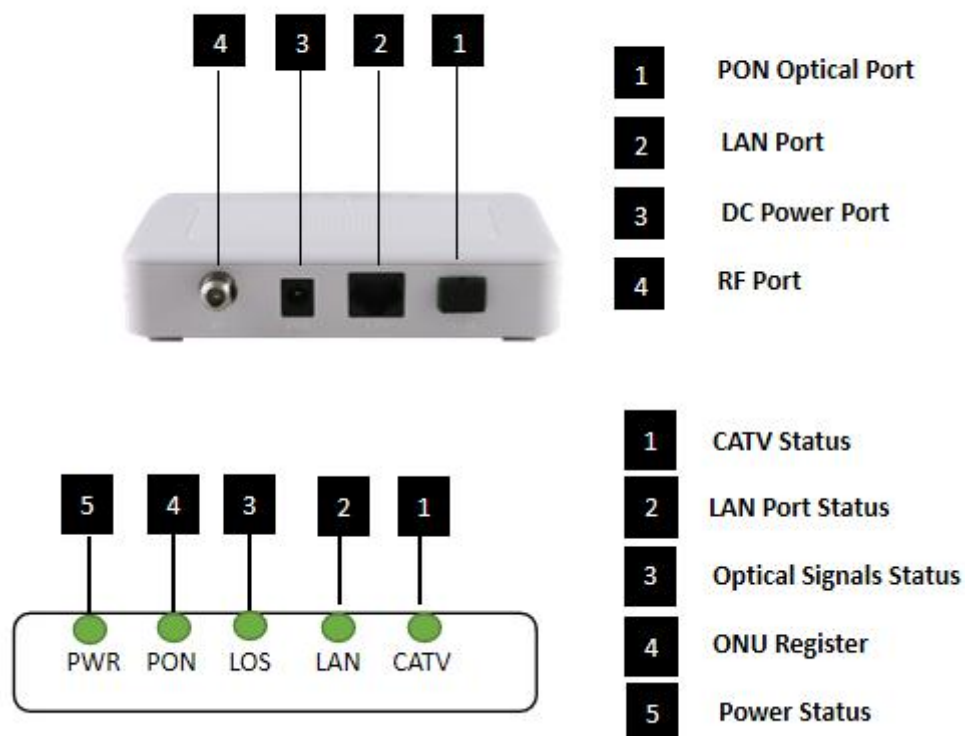
It adopts single fiber WDM technology with downlink wavelength 1550nm and 1490nm, uplink wavelength 1310nm . It only needs one-core fiber to transmit data and CATV service.

Features

- In compliant with ITU - T G.984.1/2/3/4 and IEEE802.3ah standard
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support multiple registration methods
- Support port VLAN configuration
- Support mac-address learning
- Support port-based rate limitation and bandwidth control
- Support port flow-control
- Support broadcasting storm resistance function
- Support igmp transparent/snooping/proxy mode

- Support remote management configuration
- Support Dynamic Bandwidth Allocation (DBA)
- Support AES encryption and decryption
- Support three layer routing function
- Support remote CATV port management
- EMS network management based on SNMP ,convenient for maintenance
- Support power-off alarm function ,easy for link problem detection

Product Interface and LED Definitions



Indicator			Description
1	CATV	CATV status	On: CATV optical normal Off: The CATV signals are not received
2	LAN	LAN port status	On: Ethernet connection is normal Blinking: Data is being transmitted through the Ethernet port Off: Ethernet connection is not set up
3	LOS	XPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
4	PON	ONU Register	On: Success to register to OLT Blinking: In process of registering to OLT Off: Failed to register to OLT;
5	PWR	Power status	On: The ONU is power on Off: The ONU is Power off

Specification

Item	Parameters	Specification
Interface	EPON/GPON Interface	SC/APC single mode single fiber GPON: FSAN G.984.2 standard, Class B+ EPON: 1000BASE-PX20+ symmetric GPON: 2.488Gbps/1.244Gbps downstream/upstream EPON: 1.25Gbps downstream/upstream Wavelength: Transmit: 1310nm Receiver: 1490nm Receiving sensitivity : GPON: -28dBm EPON: -27dBm Saturated power : GPON: -8dBm EPON: -3dBm Transmitting power : GPON: 0.5~5dBm EPON:0~4dBm
	Ethernet Port(LAN)	1*GE Auto-negotiation RJ45 ports Full Duplex / Half-Duplex RJ45, Auto-MDI/MDI-X Transmission Distance 100 Meter
	CATV Interface	1 RF output F-Type Connector
	Power Supply Port	12V DC input
Management	Management Mode	OMCI, OAM, WEB, Telnet
	Management Function	Status monitor, Configuration management, Alarm management, Log management
Environmental Specifications	Power	<4.5W, 12V/0.5A power supply adapter
	Physical Specifications	Item Dimension: 125mm(L)*80mm(W)*28mm(H) Item Net Weight: about 130g
	Environmental Specifications	Operating temperature: 0 to 40°C Operating humidity: 10% to 90%(Non-condensing)

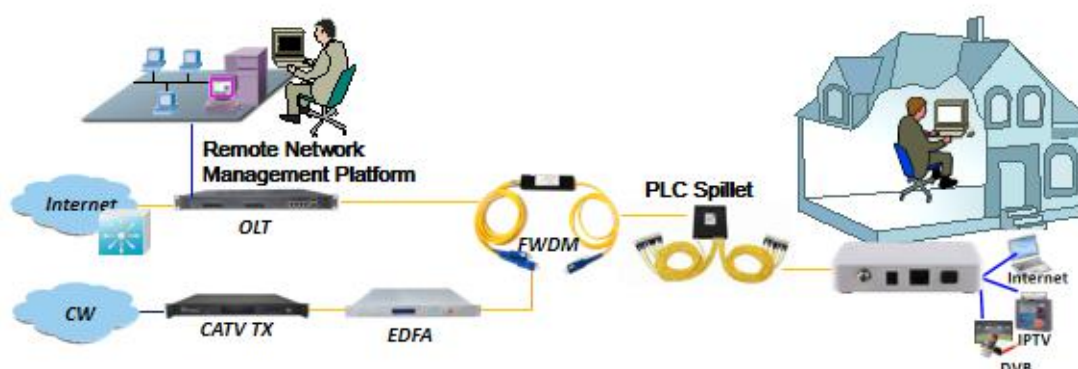
CATV

Item	Parameter
Wavelength	1550nm
Optical return loss	>45dB
Input optical power	-18dBm~0dBm
RF frequency	47MHz~1000MHz
RF output lever	≥82dBuV (@-12~-2dBm@85MHz)

AGC control accuracy	$< \pm 1\text{db}$
Flatness	$< \pm 1.5\text{db}$
CNR	$> 41\text{dB}$ (@-10dBm@DS22 Channel)
CSO	$> 58\text{dBc}$ (@-10dBm@DS22 Channel)
CTB	$> 58\text{dBc}$ (@-10dBm@DS22 Channel)
RF output return loss	$> 12\text{dB}$
RF impedance	75Ω
AGC function	Support

Network Application

- ✧ Solution: FTTH
- ✧ Business: Broadband Internet, CATV, IPTV



Ordering Information

Product Name	Product Model	Descriptions
1GE+CATV	FD701G-AX-Z310	1*10/100/1000M Ethernet interface, 1 GPON/EPON adaptive optical interface, 1 RF interface, support AGC function, built-in FWM, Input optical power -18dBm~0dBm, plastic casing, external power supply adapter