

FD704G-AX-R410 4GE+CATV Dual-Mode ONU



Brief Views

FD704G-AX-R410 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.

FD704G-AX-R410 is fiber to the home multiple service access XPON ONT. It's based on the mature, stable, high cost performance XPON technology, gigabit Ethernet switching, WDM and HFC technology. It has a higher bandwidth, higher reliability, easy management and good quality of service (QoS) guarantee. It fully meets the ITU-T and IEEE technical standards and have good compatibility with third party OLT.

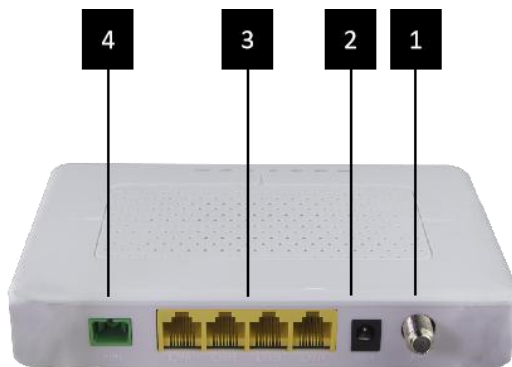
It adopts single fiber WDM technology with downlink wavelength 1550nm and 1490nm, uplink wavelength 1310nm . It only needs one-core fiber to transmit data and CATV service.

Functional Feature

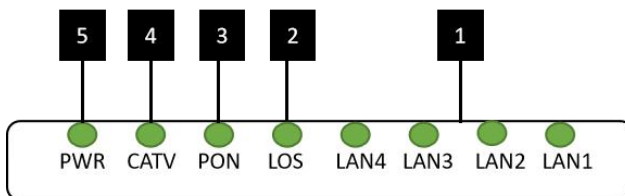
- In compliant with ITU - T G.984 and IEEE802.3ah standard
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support multiple registration methods
- Support port VLAN configuration
- Support mac-address learning
- Support port-based rate limitation and bandwidth control
- Support port flow-control
- Support broadcasting storm resistance function
- Support igmp transparent/snooping/proxy mode

- Support remote management configuration
- Support Dynamic Bandwidth Allocation (DBA)
- Support data encryption and decryption
- 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



- 1 RF Port
- 2 DC Power Port
- 3 LAN Port
- 4 Optical Port



- 1 LAN Port Status
- 2 Optical Signals Status
- 3 ONU Register Status
- 4 CATV Status
- 5 Power Status

Indicator			Description
1	LAN1-4	LAN port status	On: Ethernet connection is normal Blinking: Data is being transmitted through the Ethernet port Off: Ethernet connection is not set up
2	LOS	XPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
3	PON	ONU Register	On: Success to register to OLT Blinking: In process of registering to OLT Off: Failed to register to OLT;
4	CATV	CATV status	On: CATV optical normal Off: The CATV signals are not received
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)	4*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
	CATV Interface	1 RF output F-Type Connector
Management	Management Mode	OMCI, OAM, WEB, Telnet
	Management Function	Status monitor, Configuration management, Alarm management, Log management
Environmental Specifications	Power	External 12V/1A DC power supply adapter Power consumption: <7W
	Dimensions	Item Dimension: 160mm(L)*112mm(W)*28.5mm(H) Item Net Weight: about 258g
	Environment	Operating temperature: 0 to 40°C Operating humidity: 10% to 90%(Non-condensing)


CATV

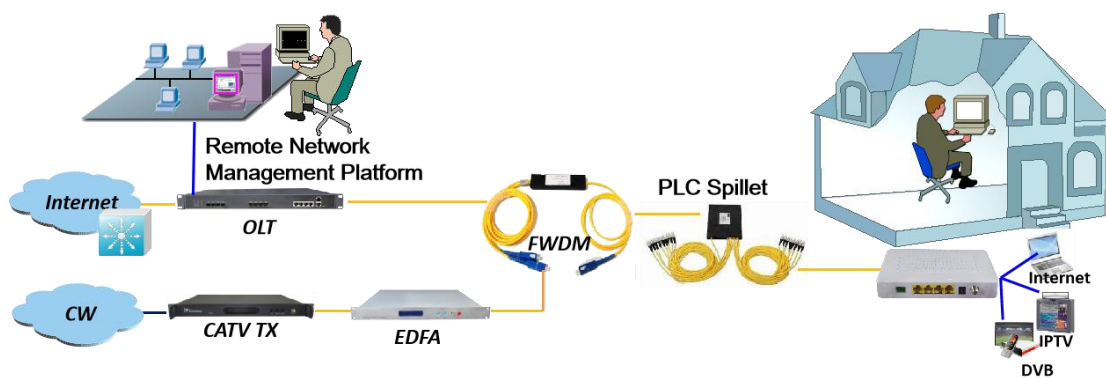
Item	Parameter
Wavelength	1550nm
Optical return loss	>45dB
Input optical power	-18dBm~0dBm
RF frequency	47MHz~1000MHz
RF output lever	82dBuV (@-12~-2dBm@85MHz)

CNR	>41dB (@-10dBm@DS22 Channel)
CSO	>58dBc (@-10dBm@DS22 Channel)
CTB	>58dBc (@-10dBm@DS22 Channel)
RF output return loss	>12dB
RF impedance	75Ω
AGC function	Support

Network Application

Typical Solution: FTTH, FTTO

Typical Business: INTERNET, CATV



Ordering Information

Product Name	Product Model	Descriptions
4GE+CATV single fiber	FD704G-AX-R410	4*10/100/1000M Ethernet interface, 1 RF interface, 1 GPON/EPON adaptive optical interface, built-in FWDM, input optical power -18dBm~0dBm, support AGC function, plastic casing, external power supply adapter