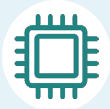*XPON ONU*

4GE+WIFI+CATV

FD704GW-AX-R410

| High Speed CPU | Low Power Consumption | Optional Shell Supply | Software Customization |

Brief Views

FD704GW-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.FD704GW-AX-R410 integrates wireless function which meets 802.11 b/g/n technical standards. it supports 2.4GHz wireless signal.The 2.4GHz transmission rate up to 300Mbps.

FD704GW-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

➢ Single-fiber access, provides internet, CATV, WIFI multiple service
➢ In compliant with IEEE802.3ah and ITU - T G.984 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 Dynamic Bandwidth Allocation (DBA)
➢ EMS network management based on SNMP ,convenient for maintenance
➢ Support power-off alarm function ,easy for link problem detection
➢ Support data encryption and decryption
➢ Support remote CATV port management

Product Interface and LED
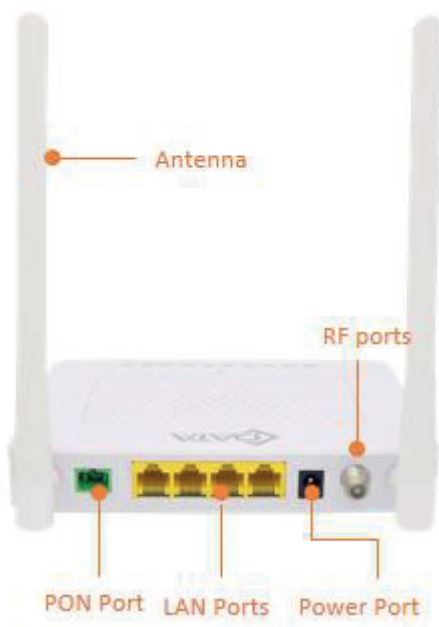
LED Definitions

Indicator		Description
PWR	Power status	On: The ONT is power on; Off: The ONT is Power off;
PON	ONT Register	On: Success to register to OLT; Blinking: In process of registering to OLT; Off:Failed to register to OLT or no normal optical signal input;
LOS	XPON optical signals	On: Optical power lower than receiver sensitivity; Off: Optical in normal;
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;
CATV	CATV status	On：CATV optical normal Off：The CATV signals are not received
WIFI	WIFI	Blinking：Data is being transmitted On：WIFI function Opens
WPS	WPS	Blinking: In the connected state, waiting for the device to access; Off: In the not onnected state;

Hardware

- **GPON/EPON Port**
  - 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

- **User Port(LAN)**
  - 4*10/100/1000 M Auto-negotiation
  - Full Duplex / Half-Duplex
  - RJ45, Auto-MDI/MDI-X
  - Transmission Distance 100 Meter

- **CATV（Input /Output port）**
  - Wavelength: 1550nm
  - Input optical power: -18dBm～0dBm(with AGC)
  - RF frequency: 47MHz~1000MHz
  - RF output level: 78dBuV (@-12~-2dBm@85MHz) (with AGC)
  - RF output return loss: >12dB(with AGC)
  - RF impedance: 75 Ω

- **Indicators**
- ➢ PWR / PON / LOS / LAN /CATV /WIFI
- **Power**
- ➢ External 12V/0.5A DC power supply adapter
- ➢ Power consumption: <9W
- **Dimension and Weight**
- ➢ Item Dimension：
- ➢ 160mm(L)*139.5mm(W)*28.5mm(H)
- ➢ Item weight：about 231g
- **Environmental Specifications**
- ➢ Operating temperature: 0 to 40° C
- ➢ Operating humidity: 10% to 90%(Non-condensing)

Software

- **Management**
- ➢ EPON :OAM / WEB / TR069 / Telnet
- ➢ GPON:OMCI / WEB / TR069 / Telnet
- **Register**
- ➢ Auto-discovery/Link detection/Remote upgrade software
- ➢ Auto/MAC/SN/LOID+Password authentication
- **L3**
- ➢ IPv4/IPv6 Dual Stack
- ➢ NAT
- ➢ DHCP client/server
- ➢ PPPOE client/ Passthrough
- ➢ Static and dynamic routing
- **Switch**
- ➢ MAC address learning
- ➢ MAC address learning account limit
- ➢ Port isolation
- ➢ Port flow control
- ➢ Broadcast storm suppression
- ➢ VLAN transparent/tag/translate/trunk

- **Multicast**
- ➢ IGMP V2
- ➢ IGMP VLAN
- ➢ IGMP transparent/Snooping/Proxy
- **Security**
- ➢ Firewall
- ➢ MAC address/URL filter
- ➢ Remote WEB/Telnet access control

Application

- ➢ Typical Solution：FTTH
- ➢ Typical Business：Internet,CATV,WIFI