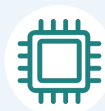




*GPON ONU*

*1GE+3FE+CATV*

*FD704X-AG-R410*



High Speed CPU



Low Power Consumption



Optional Shell Supply



Software Customization

## Brief Views

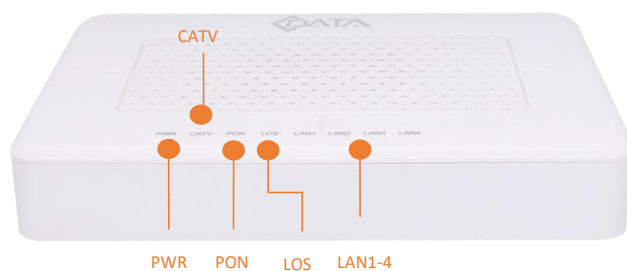
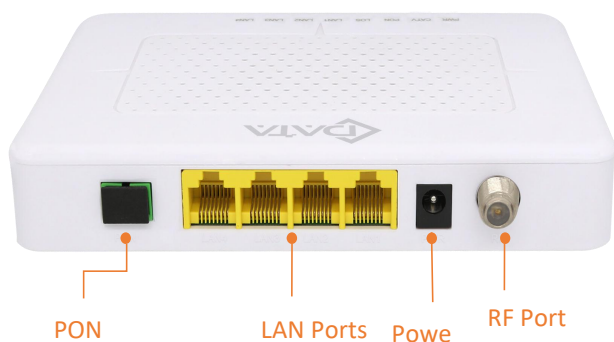
FD704X-AG-R410 data type ONU is one of the GPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH/FTTO to provide the data, video service based on the GPON network.

FD704X-AG-R410 is fiber to the home multiple service access GPON ONT. It's based on the mature, stable, high cost performance GPON 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.

## Functional Feature

- In compliant with 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	PON 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

## Hardware

### ● GPON Port

- Single mode single fiber
- GPON: FSAN G.984.2 standard, Class B+
- GPON: 2.488Gbps/1.244Gbps downstream/upstream
- Wavelength :  
Transmit: 1310nm Receiver: 1490nm
- Receiving sensitivity :  
GPON: -28dBm
- Saturated power :  
GPON: -8dBm
- Transmitting power :  
GPON: 0.5~5dBm

### ● User Port(LAN)

- 1\*10/100/1000 M and 3\*10/100 M Auto-negotiation RJ45 ports
- 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 / LAN1-4 /CATV
- **Power**
  - External 12V/0.6A DC power supply adapter
  - Power consumption: <6.5W
- **Dimension and Weight**
  - Item Dimension:
  - 160mm(L)\*112mm(W)\*28.5mm(H)
  - Item weight: about 258g
- **Environmental Specifications**
  - Operating temperature: 0 to 40° C
  - Operating humidity: 10% to 90%(Non-condensing)

## Software

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- **Management**
  - GPON:OMCI / WEB / TR069 / Telnet
- **Register**
  - Auto-discovery/Link detection/Remote upgrade software
  - Auto/MAC/SN/LOID+Password authentication
- **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

