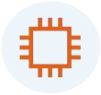# FD701G-AX-F360

1GE+CATV XPON ONU

High Speed CPU

Low Power Consumption

Software Customization

Optional Shell Supply

Brief Views

FD701G-AX-F360 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 IEEE802.3ah requirement and have good compatibility with third party manufacturers OLT.

FD701G-AX-F360 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.
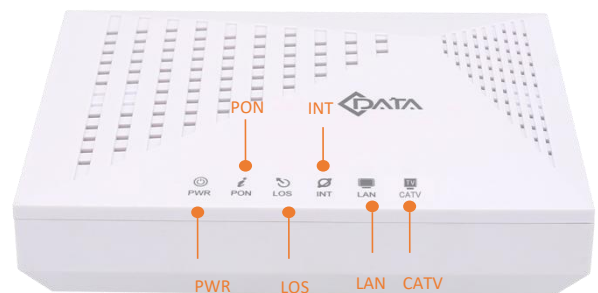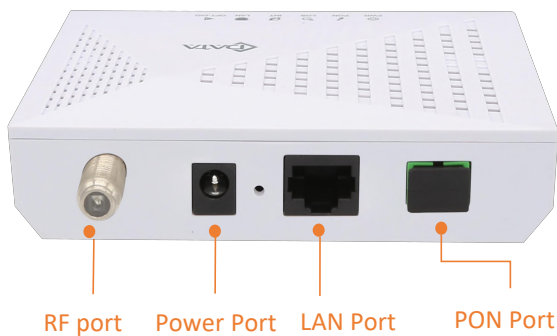
It adopts single fiber WDM technology with downlink wavelength 1550nm and 1490nm, uplink wavelength 1310nm . It only needs one-core fiber to transmit data and CATV service.

Functional Feature

- In compliant with 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 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

RF port   Power Port   LAN Port   PON Port

PON   INT

PWR   PON   LOS   INT   LAN   CATV

PWR   LOS   LAN   CATV

LED Definitions

Indicator		Description
CATV	CATV status	On：CATV optical normal Off：The CATV signals are not received
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
LOS	PON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
PON	ONU Register	On: Success to register to OLT Blinking: In process of registering to OLT Off: Failed to register to OLT;
PWR	Power status	On: The ONU is power on Off: The ONU is Power off
INT	Internet status indicator	On: The routed WAN Internet access service is normal. Off: The routed WAN Internet access service is abnormal.

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)**
- ➢ RJ-45 connector
- ➢ 1*10/100/1000Mbps adaptive Ethernet port
- ➢ Full/half duplex
- ➢ Auto MDI/MDI-X

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

- **Indicators**
  - PWR / PON / LOS / LAN / CATV / INT
- **Power**
  - External 12VDC/0.5A power supply adapter
  - Power consumption: <4.5W
- **Dimension and Weight**
  - Item Dimension：
  - 125mm(L) x 80mm(W) x 28mm (H)
  - Item weight：0.13kg
- **Environmental Specifications**
  - Operating temperature: 0 to 40° C
  - Storage temperature: -40 to 85° 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
- **Switch**
  - MAC address learning
  - MAC address learning account limit
  - 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,