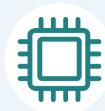




GPON ONU

1GE+1FE+CATV+WIFI

FD702XW-G-R410



High Speed CPU



Low Power Consumption



Optional Shell Supply



Software Customization

Brief Views

FD702XW-G-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.

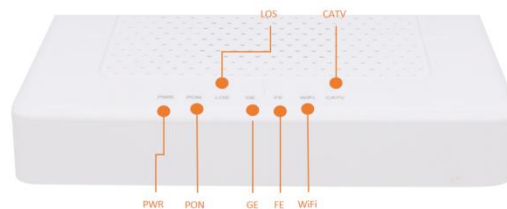
It adopts single fiber WDM technology with downlink wavelength 1550nm and 1490nm, uplink wavelength 1310nm . It only needs one-core fiber to transmit data and CATV service.

FD702XW-G-R410 integrates wireless function which meets 802.11 b/g/n technical standards. It has two external high gain omnidirectional antennas, the wireless transmission rate up to 300Mbps. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.

Functional Feature

- Single-fiber access, provides internet, CATV, WIFI multiple service
- In compliant with ITU - T G. 984
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Meet 802.11 b/g/n WIFI technical standard
- Support VLAN transparent, tag configuration
- Support multicast function
- Support DHCP/Static/PPPOE internet mode
- Support port-binding
- Support data encryption and decryption function
- Support Dynamic Bandwidth Allocation (DBA)
- Support MAC filter and URL access control
- Support remote CATV port management
- Support power-off alarm function ,easy for link problem detection
- Specialized design for system breakdown prevention to maintain stable system
- EMS network management based on SNMP ,convenient for maintenance
- Support OMCI+TR069 remote 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;
GE	LAN port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
FE	LAN port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
WIFI	WIFI	Blinking: Data is being transmitted On: WIFI function Opens
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)

- RJ-45 connector
- 1*10/100 and10/100/1000Mbps adaptive Ethernet port
- Full/half duplex
- Auto MDI/MDI-X

● WIFI performance parameters

- IEEE802.11b/g/n(2.4G)
- Max rate: 300M(2.4G)
- Antenna gain: 5dBi
- Max TX power: 2.4G: 17dBm
- Max TX power: 2.4G: 20dBm

- **CATV (Input /Output port)**

- Wavelength: 1550nm
- Input optical power: 15dBm~+2dBm(without AGC)
-)
- RF frequency: 47MHz~1000MHz
- RF output level: $\geq 65\text{dBuV}$ (@-12dBm@85MHz) (without AGC)
- RF output return loss: >10dB(without AGC)
- RF impedance: $75\ \Omega$

- **Indicators**

- PWR / PON / LOS / GE / FE / CATV / WIFI

- **Power**

- External 12VDC/1A power supply adapter
- Power consumption: <8.5W

- **Dimension and Weight**

- Item Dimension:
- 160mm(L) x 139.5mm(W) x 28.5mm (H)
- Item weight: 0.23kg

- **Environmental Specifications**

- Operating temperature: 0 to 40° C
- Storage temperature: -40 to 85° C
- Operating humidity: 10% to 90%(Non-condensing)

Software

- **Management**

- 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/ Pass through
- 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

- **Wireless**

- 2.4G: 4*SSID
- 2*2 MIMO
- SSID broadcast/ hide
- Choose channel automatically

- **Security**

- Firewall
- MAC address/URL filter
- Remote WEB/Telnet access control

Application

- Typical Solution: FTTH
- Typical Business: Internet, CATV, Wi-Fi

