



GPON ONU

1GE+1FE+1POTS+WIFI

FD602XW-G-R410



High Speed CPU



Low Power Consumption



Optional Shell Supply



Software Customization

Brief Views

FD602XW-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.

FD602XW-G-R410 features high-performance forwarding capabilities to ensure excellent experience with VoIP and Internet services. It fully meets the ITU-T technical standards and have good compatibility with third party OLT. It provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment.

Functional Feature

- In compliant with ITU-T G.984 standard
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support multicast Snooping/Proxy
- Support DHCP/Static/PPPOE internet mode
- Support port-binding
- Support OMCI remote management
- Support data encryption and decryption function
- Meet 802.11 b/g/n WIFI technical standard
- Support loop-detection function
- Support device-based speed limitation
- Support MAC filter and URL access control
- Support H.248 and SIP protocol
- Support power-off alarm function ,easy for link problem detection
- EMS network management based on SNMP ,convenient for maintenance

Product Interface and LED



LED Definitions

Indicator		Description
TEL	Telephone port status	On: The connection between the TEL port and the voice server has been set up Blinking: The voice service of the TEL port is established; Off: The connection between the TEL port and the voice server is not set up.
FE	FE port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
GE	GE port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
LOS	GPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
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;
PWR	Power status	On: The ONT is power on; Off: The ONT is Power off;
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;
INT	Internet status indicator	On: The routed WAN Internet access service is normal. Off: The routed WAN Internet access service is abnormal.
OPT-DIG	Light intensity indicator	On: higher than ONURX maximum threshold; flashing: lower than ONU RX minimum threshold; off: ONU RX is within the normal threshold range.

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 and1 *10/100/1000Mbps adaptive Ethernet port
- Full/half duplex
- Auto MDI/MDI-X

- **Indicators**
 - PWR / PON / LOS / GE / FE / TEL/WIFI/WPS/INT/OPT-DIG
- **Power**
 - External 12VDC/1A power supply adapter
 - Power consumption: <6.5W
- **Dimension and Weight**
 - Item Dimension:
 - 160mm(L) x 139.5mm(W) x 28.5mm (H)
 - Item weight: 300g
- **Environmental Specifications**
 - Operating temperature: 0 to 40° C
 - Storage temperature: -40 to 85° C
 - Operating humidity: 10% to 90%(Non-condensing)
- **User Port(POTS)**
 - RJ-11 connector
 - 1*accounts
 - SIP and H.248 protocol
 - TDMF
 - G711U/G711A/G729/G722 encoding and decoding
- **WIFI performance parameters**
 - IEEE802.11b/g/n(2.4G)
 - Max rate: 300M(2.4G)
 - Antenna gain: 5dBi
 - Max TX power: 2.4G: 17dBm

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
 - 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,WIFI,VOIP

