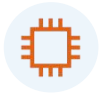# FD602XW-E-R411

1GE+1FE+1POTS+WIFI EPON ONU

High Speed CPU

Low Power Consumption

Software Customization

Optional Shell Supply

Brief Views
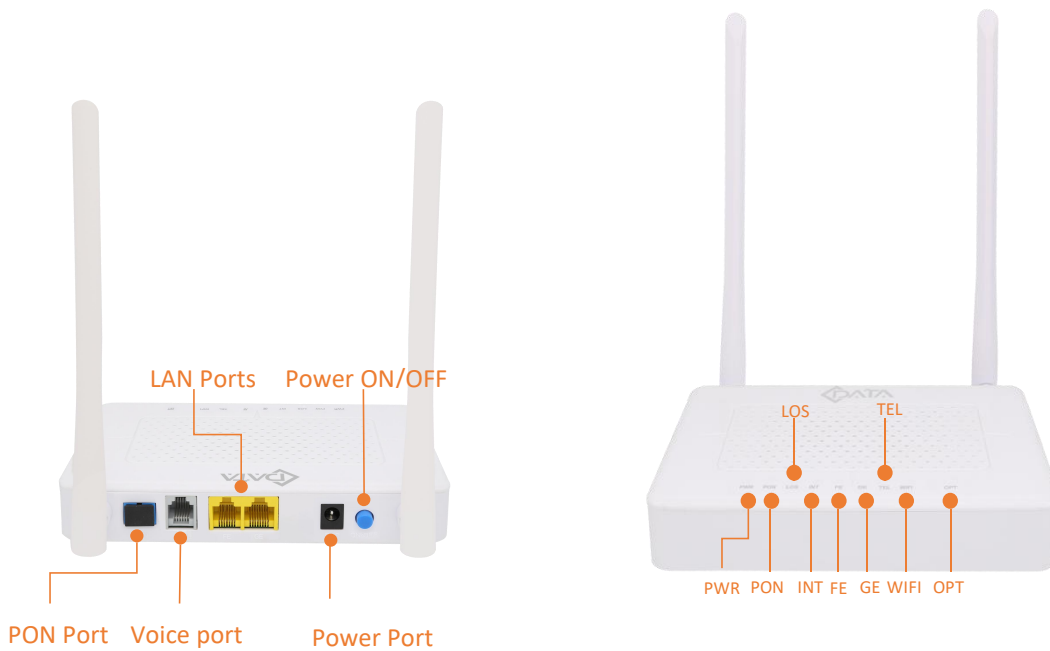
FD602XW-E-R411 features high-performance forwarding capabilities to ensure excellent experience with VoIP and Internet services.Have good compatibility with third party OLT. It provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment.

Functional Feature

- ➢ In compliant with IEEE802.3ah 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 OAM 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

T

LAN Ports   Power ON/OFF

PON Port   Voice port   Power Port

LOS   TEL

PWR PON   INT FE   GE WIFI OPT

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	PON 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
INT	Internet status indicator	On: The routed WAN Internet access service is normal. Off: The routed WAN Internet access service is abnormal.
OPT	Light intensity indicator	On: higher than ONU RX maximum threshold; flashing: lower than ONU RX minimum threshold; off: ONU RX is within the normal threshold range.

Hardware

● **EPON Port**

➢ Single mode single fiber

➢ EPON：1000BASE-PX20+ symmetric

➢ EPON：1.25Gbps downstream/upstream

➢ Wavelength :

Transmit: 1310nm　　Receiver: 1490nm

➢ Receiving sensitivity :

EPON：-27dBm

➢ Saturated power :

EPON：-3dBm

➢ Transmitting power :

EPON:0～4dBm

● **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 / INT / OPT
- **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

Software

- **Management**
  - EPON :OAM / 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