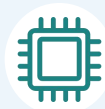




*GPON ONU*  
*4GE+2WIFI*  
***FD504GW-DG-R410***



High Speed CPU



Low Power Consumption



Optional Shell Supply



Software Customization

## Brief Views

FD504GW-DG-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 based on the GPON network.

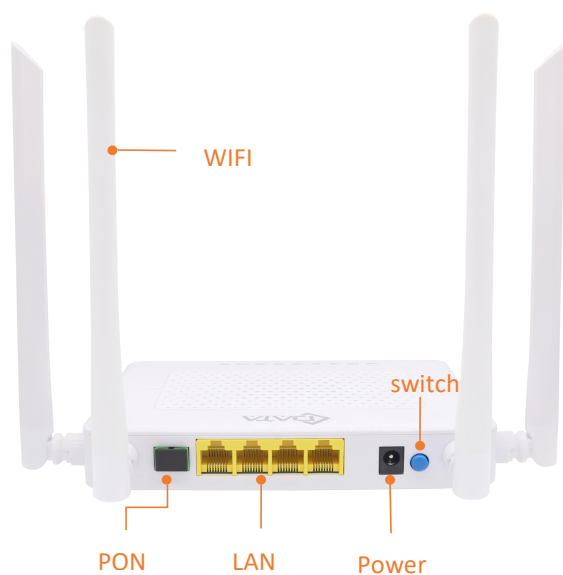
FD504GW-DG-R410 have a high reliability and provide quality of service guarantee, easy management, flexible expansion and networking. It fully meets the ITU-T technical standards and have good compatibility with third party OLT.

FD504GW-DG-R410 integrates wireless function which meets 802.11 b/g/n/ac technical standards. At the same time, it also supports 2.4GHz/5GHz dual-band wireless signal. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.

## 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 broadcasting storm resistance function
- Meet 802.11 b/g/n/ac WIFI technical standard
- Support DHCP/Static/PPPOE internet mode
- Support port-binding
- Support remote management configuration
- Support Dynamic Bandwidth Allocation (DBA)
- Support AES encryption and decryption
- EMS network management based on SNMP ,convenient for maintenance
- Support power-off alarm function ,easy for link problem detection

## 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	GPON optical signals	On: Optical power lower than receiver sensitivity; Off: Optical in normal;
INT	Internet status indicator	On: The routed WAN Internet access service is normal. Off: The routed WAN Internet access service is abnormal.
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;
WIFI	WIFI	Blinking: Data is being transmitted On: WIFI function Opens

## 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
- 4\*10/100/1000 Mbps adaptive Ethernet port
- Full/half duplex
- Auto MDI/MDI-X

### ● WIFI performance parameters

- IEEE802.11b/g/n(2.4G)
- IEEE802.11a/b/g/n/ac(5G)
- Max rate: 300M(2.4G)
- Max rate: 867Mbps(5G)
- Antenna gain: 5dBi
- Max TX power: 2.4G: 17dBm
- Max TX power: 2.4G: 20dBm 5G: 20dBm

- **Indicators**
  - PWR / PON / LOS / LAN/WPS/WIFI
- **Power**
  - External 12VDC/1A power supply adapter
  - Power consumption: <6W
- **Dimension and Weight**
  - Item Dimension:
  - 160mm(L) x 139.5mm(W) x 28.5mm (H)
  - Item weight: 0.228kg
- **Environmental Specifications**
  - Operating temperature: 0 to 40° C
  - Storage temperature: -40 to 85° 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
  - Broadcast storm suppression
  - VLAN transparent/tag/translate/trunk
- **L3**
  - IPv4/IPv6 Dual Stack
  - NAT
  - DHCP client/server
  - PPPOE client/ Pass through
  - Static and dynamic routing
- **Multicast**
  - IGMP V2
  - IGMP VLAN
- **Security**
  - Firewall
  - MAC address/URL filter
  - Remote WEB/Telnet access control
- **Wireless**
  - 2.4G: 4\*SSID
  - 5G: 4\*SSID
  - 2\*2 MIMO
  - SSID broadcast/ hide
  - Choose channel automatically

## Application

- Typical Solution: FTTH
- Typical Business: Internet,WIFI

