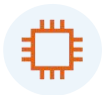# FD604G-X-R710

4GE+2POTS XPON ONU

High Speed CPU

Low Power Consumption

Software Customization
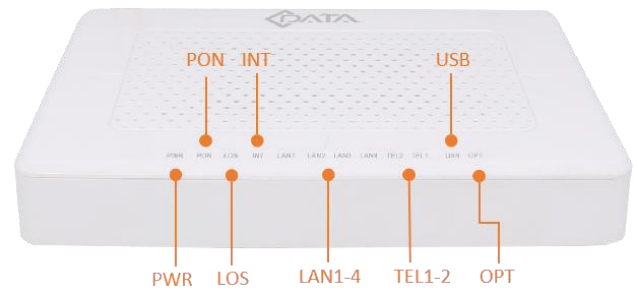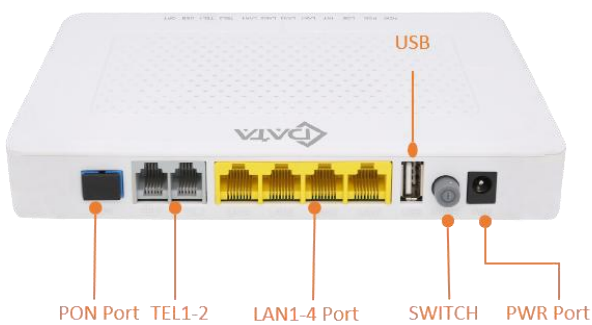
Optional Shell Supply

Brief Views

FD604G-X-R710 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.

FD604G-X-R710 features high-performance forwarding capabilities to ensure excellent experience with VoIP and Internet. 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

- Single-fiber access, provides internet,Voice multiple service.
- In compliant with ITU - T G. 984 and IEEE802.3ah standard
- Support ONU auto-discovery/Link detection/remote upgrade of software
- 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 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

Product Interface and LED

PON Port   TEL1-2   LAN1-4 Port   SWITCH   PWR Port

USB

PON   INT   USB

PWR   LOS   LAN1-4   TEL1-2   OPT

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;
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;
INT	Internet status indicator	On: The routed WAN Internet access service is normal. Off: The routed WAN Internet access service is abnormal.
USB	USB port status	On: USB connection is normal; Off: USB connection is not set up;
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.
OPT	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/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
  - 4*10/100/1000Mbps adaptive Ethernet port
  - Full/half duplex
  - Auto MDI/MDI-X

- **User Port(POTS)**
  - RJ-11 connector
  - 2*accounts
  - SIP   protocol
  - TDMF
  - G711U/G711A/G729/G722 encoding and decoding
- **Dimension and Weight**
  - Item Dimension：
  - 240mm(L) x 240mm(W) x 24mm (H)
  - Item weight：0.317kg

- **Indicators**
  - PWR / PON / LOS / LAN / USB / INT / TEL / OPT
- **Power**
  - External 12VDC/1.5A power supply adapter
  - Power consumption: <13W
- **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
- **L3**
  - IPv4/IPv6 Dual Stack
  - NAT
  - DHCP client/server
  - PPPOE client/ Pass through
  - Static and dynamic routing

- **Multicast**
  - IGMP V2
  - IGMP VLAN
  - IGMP transparent/Snooping/Proxy
- **Security**
  - Firewall
  - MAC address/URL filter
  - Remote WEB/Telnet access control
- **Switch**
  - MAC address learning
  - MAC address learning account limit
  - Broadcast storm suppression
  - VLAN transparent/tag/translate/trunk

Application

➢ Typical Solution：FTTH
➢ Typical Business：Internet, VOIP, Wi-Fi