
# XPON ONU

## FD514GB-PRX-R410

- High Speed CPU
- Low Power Consumption
- Optional Shell Supply
- Software Customization

## Brief Views

FD514GB-PRX-R410 dual-mode ONU is one of the XPON 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 XPON network.

FD514GB-PRX-R410 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.

FD514GB-PRX-R410 Building ONU 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.

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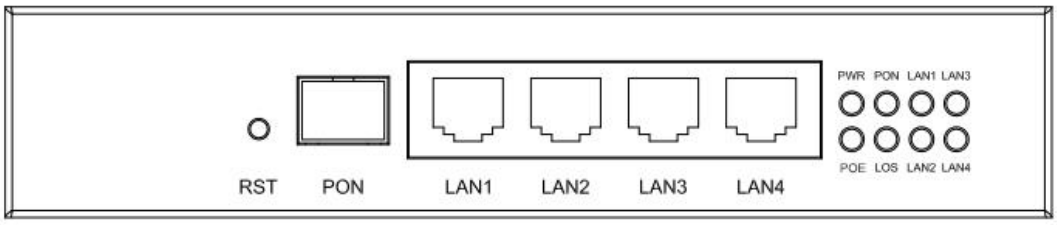
## Functional Feature

- In compliant with ITU - T G.984 ,IEEE802.3ah Standard
- Support POE supply power(PD)
- Support POE switch power supply
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support SN and LOID+Password multiple registration methods
- Support port VLAN configuration
- Support mac-address learning
- Support port-based rate limitation and bandwidth control
- Support port flow-control
- Support broadcasting storm resistance function
- Support igmp transparent/snooping/proxy mode
- 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

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## LED Definitions

| Indicator | | Description |
|---|---|---|
| PWR | Power status | On: The ONU is power on;<br>Off: The ONU is Power off; |
| PON | ONU Register | On: Success to register to OLT<br>Blinking: In the process of registering to OLT;<br>Off: In the process of registering to OLT; |
| LAN1-4 | LAN Port status | On: Ethernet connection is normal;<br>Blinking: Data is being transmitted through the Ethernet port;<br>Off: Ethernet connection is not set up; |
| LOS | Optical signals | On: Optical power lower than receiver sensitivity ;<br>Off: Optical in normal |
| POE | POE status | On: The ONU POE power supply on<br>Off: The ONU POE power supply off |

## 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

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- **Indicators**
- PWR / PON / LOS / LAN/POE
- **Power**
- Power consumption: <5W
- Support POE supply power(PD)
- PD input Voltage: 36~57V DC
- **Dimension and Weight**
- Item Dimension：
- 150mm(L) x 115mm(W) x 30mm (H)
- Item weight： 0.5kg
- **Environmental Specifications**
- Operating temperature: -20 to 55° C
- Storage temperature: -40 to 85° C
- Operating humidity: 10% to 90%(Non-condensing)

## Software

- **Management**
- EPON :OAM / WEB / Telnet
- GPON:OMCI / WEB / 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
- **Multicast**
- IGMP V2
- IGMP VLAN
- IGMP transparent/Snooping/Proxy
- **Security**
- Firewall
- MAC address/URL filter
- Remote WEB/Telnet access control

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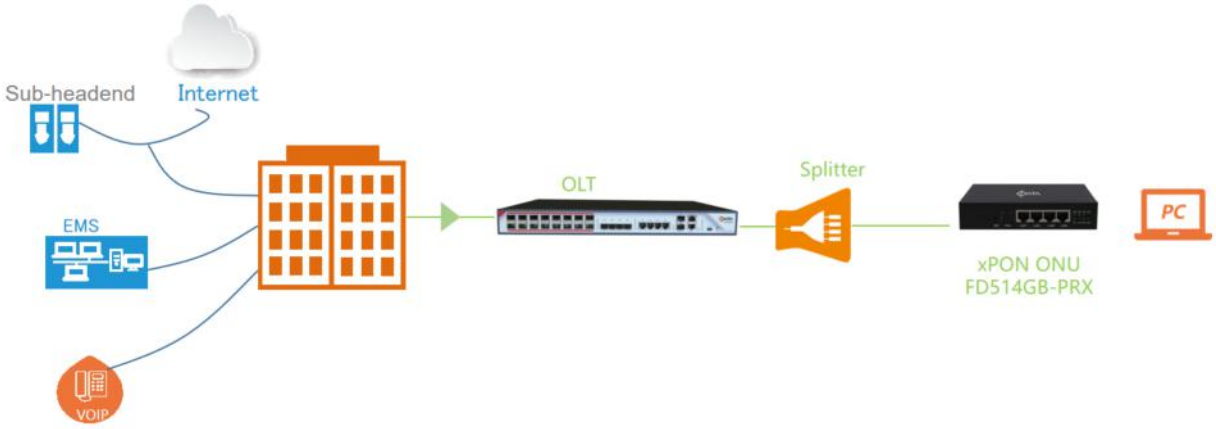
## Application

- Typical Solution：FTTH
- Typical Business：Internet

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