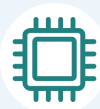




## GPON ONU

*FD514GB-PRG-R410*



High Speed CPU



Low Power Consumption



Optional Shell Supply



Software Customization

## Brief Views

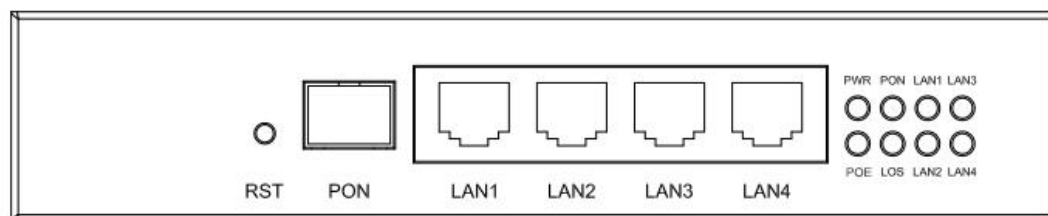
FD514GB-PRG-R410 data type ONU is one of the GPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH/FTTO to provide the data, video service based on the GPON network.

FD514GB-PRG-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.

## Functional Feature

- In compliant with ITU - T G.984 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



## LED Definitions

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

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

- **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**

- 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

## Application

- Typical Solution: FTTH
- Typical Business: Internet

