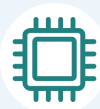




EPON ONU

FD514GB-PRE-R410



High Speed CPU



Low Power Consumption



Optional Shell Supply



Software Customization

Brief Views

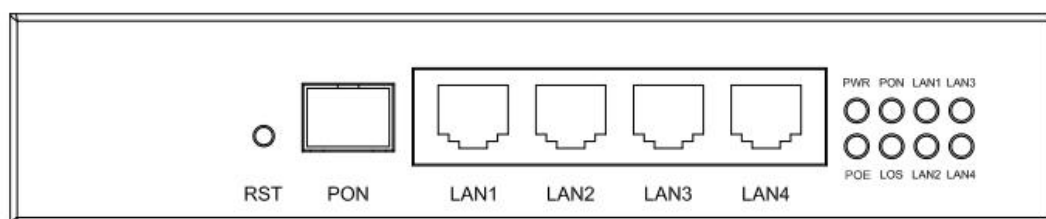
FD514GB-PRE-R410 ONU is one of the EPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH/FTTO to provide the data, video service based on the EPON network.

FD514GB-PRE-R410 Building ONU have a high reliability and provide quality of service guarantee, easy management, flexible expansion and networking. It fully meets the IEEE802.3ah technical standards and have good compatibility with third party OLT.

Functional Feature

- In compliant with 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



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

● 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
- 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**

- EPON :OAM / 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

