

FD514GB-PFE-R410

4GE EPON ONU



High Speed CPU



Low Power Consumption



Software Customization



Optional Shell Supply



Brief Views

FD514GB-PFE-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.

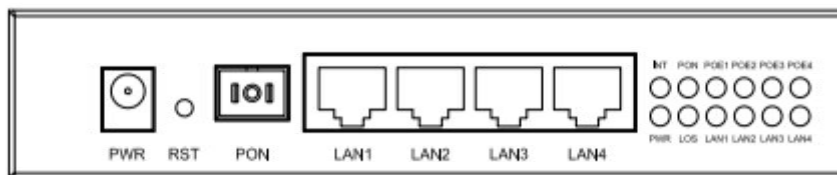
The product provides 4 GE ports with PoE/PoE+ functions, which can not only transmit data, but also connect to terminal devices such as cameras through its PoE ports to supply power, making the networking more flexible.

FD514GB-PFE-R410 Corridor ONU has the characteristics of high reliability, quality of service (QoS) guarantee, easy management, flexible upgrade and expansion and networking. The various functions and performance indicators of the equipment meet IEEE802.3ah related recommendations, relevant international standards and technical specifications of industry standards, and have good compatibility when used with mainstream manufacturers' central office OLTs.

Functional Feature

- In compliant with IEEE802.3ah Standard
- Support POE, POE+ function
- 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 process of registering to OLT; Off: Failed to register to OLT or no normal optical signal input;
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	GPON optical signals	On: Optical power lower than receiver sensitivity Off: Optical in normal

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

● Dimension and Weight

- Item Dimension:
- Item Dimension: 150mm(L) x 115mm(W) x 30mm (H)
- Item Net Weight: about 500g

● Environmental Specifications

- Operating temperature: -30 to 65° C
- Operating humidity: 10% to 90%(Non-condensing)

● 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

- Support POE feed (PSE)
- PSE output voltage: 48V DC
- The maximum output power of the whole machine: 56W, the maximum output power of a single port: 30W
- Max machine power consumption: <60W

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

