

## FD514GB-PFE-R410 4GE+PSE Building ONU



### Brief Views

FD514GB-PFE-R410 is C-Data for broadband access market based on the introduction of EPON technology passive optical network terminal products. It's with EPON OLT are used together to provide a complete broadband access solution.

EPON technology is a kind of emerging technology which takes advantage of PON technology and Ethernet technology also is a kind of point to multi-point network technology. OLT through the passive optical network to connect multiple ONU with single fiber bidirectional technical can rarely used fiber resources to meet the operators of the multi-user access requirements.

FD514GB-PFE-R410 provides 4 auto-adapting Ethernet ports with PoE power supply function. Not only can it transmit data, but it can also connect to the camera through its PoE port to power it, making the network more flexible.

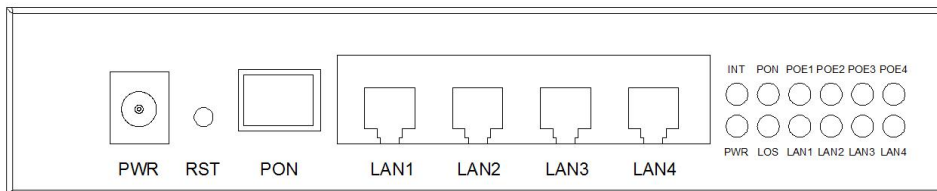
FD514GB-PFE-R410 fully meets IEEE802.3ah and CTC3.0 standard protocol. It has good third-party compatibility to work with the third party OLT, It supports 1Gbps transmission rate up and down and provides users with good QOS, flexible bandwidth allocation of Ethernet services and IP integrated service.

### Functional Feature

- In compliant with IEEE802.3ah Standard
- Support POE, POE+ function
- Meet IEEE 802.3af, IEEE 802.3at standard

- Support ONU auto-discovery/Link detection/remote upgrade of software;
- Support MAC and LOID+Password multiple registration methods
- Support port VLAN configuration
- Support mac-address learning
- Support port-based rate limitation and bandwidth control;
- Support port isolate
- 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 Triple Churning algorithm 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 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	EPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
POE1-4	POE status	On: The ONU POE power supply on Off: The ONU POE power supply off

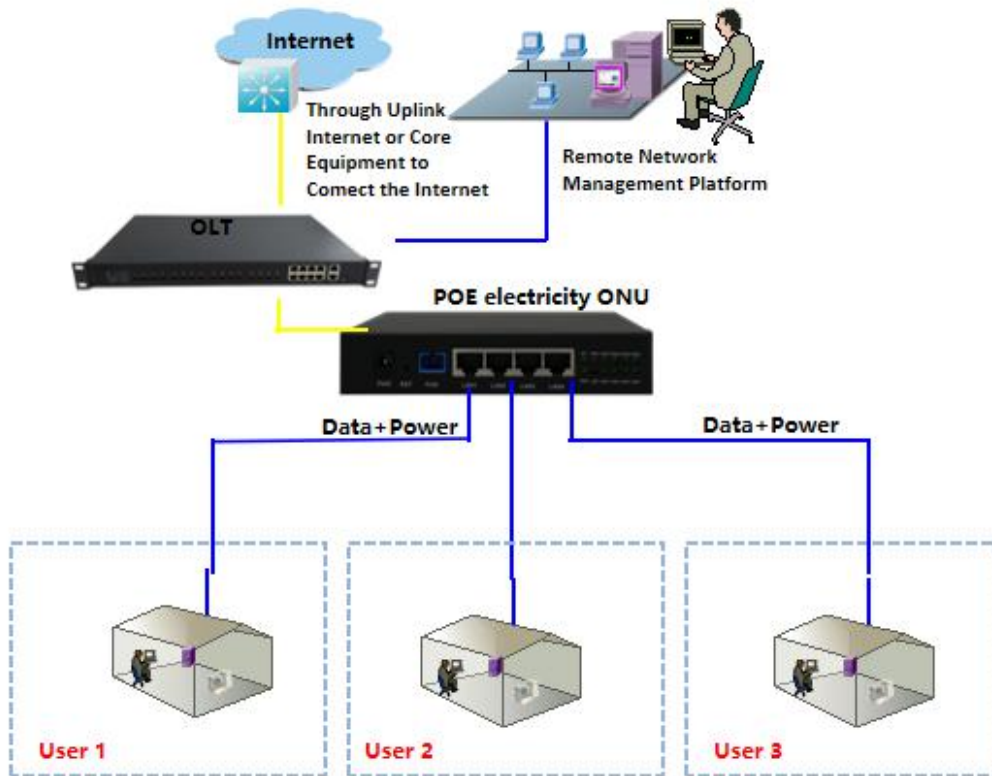

**Specification**

Item	Parameter
PON Interface	1 EPON optical interface Meet 100BASE-PX20+ standard Symmetric 1.25Gbps upstream/downstream SC single-mode fiber split ratio: 1:64 Transmission distance 20KM
User Ethernet Interface	4*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance POE, POE+ function
Power Interface	48V DC power input
PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0~4dBm Rx Sensitivity: -27dBm Saturation Optical Power: -3dBm
Data Transmission Parameter	PON Throughput: Downstream 980Mbps; Upstream 950Mbps Ethernet: 1000Mbps Packet Loss Ratio: <math>1 \times 10^{-12}</math> latency: <math>1.5\text{ms}</math>
Management Mode	OMCI, WEB, Telnet
Management Function	Status monitor, Configuration management, Alarm management, Log management
Power supply	Support 48V/1.5A DC input Support POE supply power(PSE) Max POE output consumption: <math>30\text{W}</math> (one POE port);                      <math>58\text{W}</math> (four POE ports) Max machine power consumption: <math>65\text{W}</math>
Physical Specifications	Item Dimension: 150mm(L) x 115mm(W) x 30mm (H) Item Net Weight: about 500g
Environmental Specifications	Operating temperature: -30 to 55°C Operating humidity: 10% to 90%(Non-condensing)

## Network Application

Typical Solution: FTTB

Typical Business: INTERNET, Camera



## Ordering Information

Product Name	Product Model	Descriptions
4GE+PSE Building ONU	FD514GB-PFE-R410	4*10/100/1000M Ethernet interface, support POE power supply function, 1 EPON interface, black metal casing, support 48V DC power input