

FD514GB-PRE-R410 4GE+PD Building ONU



Brief Views

FD514GB-PRE-R410 EPON ONU is passive optical network terminal produced by C-Data for broadband access market based on EPON technology. It's are used together with EPON OLT to provide a complete broadband access solution.

EPON technology is an emerging technology which takes advantage of PON technology and Ethernet technology. It's also point to multi-point network technology, and combined with single-fiber bidirectional technology. OLT device interconnected with multiple ONU through the passive optical network . EPON network system can use fewer fiber cable to meet the multi-user access needs of operators.

FD514GB-PRE-R410 provide four GE auto-adapting Ethernet ports, with supporting reverse power supply from user client to POE ONU, meeting the power demand of ONU, suitable for passive installation of ONU, and network is simpler and more flexible.

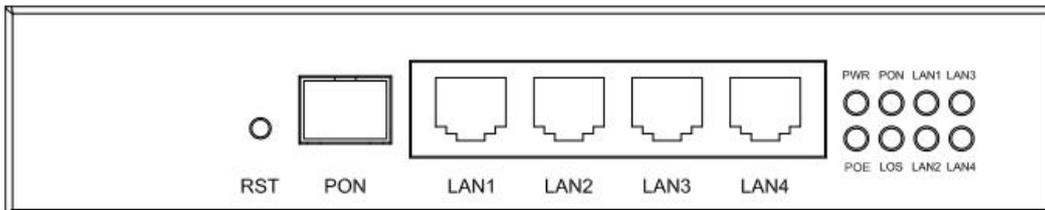
FD514GB-PRE-R410 fully meets IEEE802.3ah and CTC3.0 standard protocol. It has good third-party compatibility to work with the third party OLT, It supports 1Gbps transmission rate up and down and provides users with good QOS, flexible bandwidth allocation of Ethernet services and IP integrated service.

Functional Feature

- In compliant with IEEE802.3ah Standard
- Support POE supply power(PD)
- Support POE switch power supply

- 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
POE	POE status	On: The ONU POE power supply on Off: The ONU POE power supply off



Specification

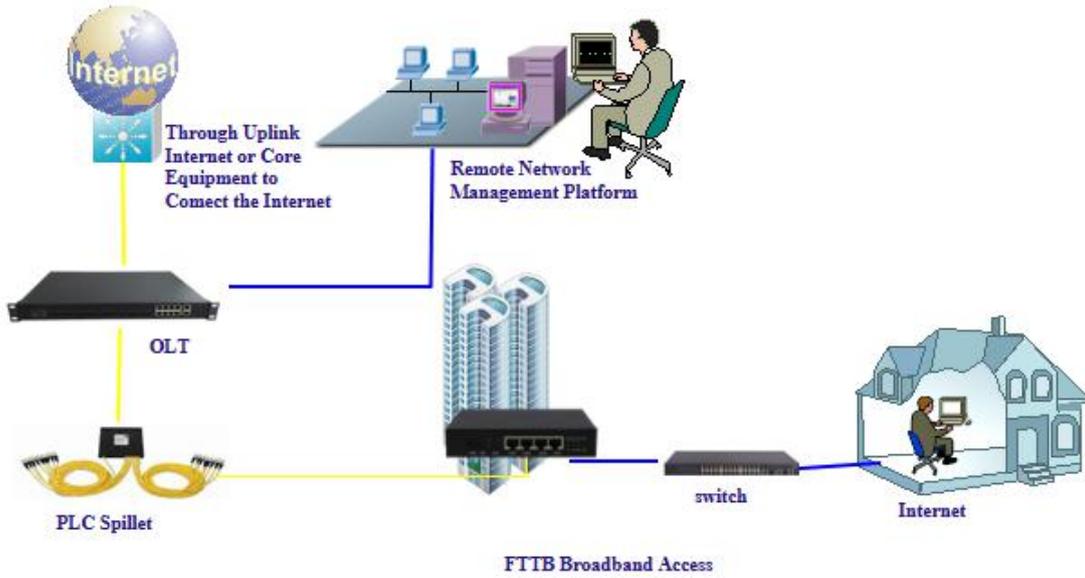
Item	Parameter
PON Interface	1 EPON optical interface Meet 1000BASE-PX20+ standard Symmetric 1.25Gbps upstream/downstream SC/UPC single-mode fiber split ratio: 1:64 Transmission distance 20KM
User Ethernet Interface	4*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
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: 1×10^{-12} latency: <math>< 1.5\text{ms}</math>
Network Management	QAM, WEB, Telnet
Management Function	Status monitor, Configuration management, Alarm management, Log management
Power	Support POE supply power(PD) PD input Voltage: 36~57V DC Machine power consumption: <math>< 5\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



Ordering Information

Product Name	Product Model	Descriptions
4GE+PD Building ONU	FD514GB-PRE-R410	4*10/100/1000M Ethernet interface, 1 EPON interface, black metal casing, support POE power supply(PD)