

FD514GB-PFG-R410 4GE+PSE Building ONU



Brief Views

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

GPON technology is the latest generation of broadband passive optical network integrated access standard based on the ITU-T G.984 standard. It has many advantages such as high bandwidth, high efficiency, large coverage, and rich user interfaces. It is the operator's realization of access network services. The ideal technology for broadband and comprehensive transformation.

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.

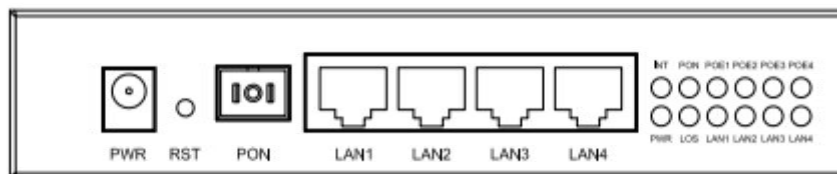
FD514GB-PFG-R410 Corridor ONU has the characteristics of high reliability, quality of service (QOS) guarantee, easy management, flexible upgrade and expansion and networking. The various functions and performance indicators of the equipment meet ITU-T related recommendations, relevant international standards and technical specifications of industry standards, and have good compatibility when used with mainstream manufacturers' central office OLTs.

Functional Feature

- In compliant with ITU - T G.984 Standard, adapting GPON upstream
- Support POE, POE+ function
- Meet IEEE 802.3af, IEEE 802.3at standard
- 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 Definitions



Indicator		Descriptions
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	GPON 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

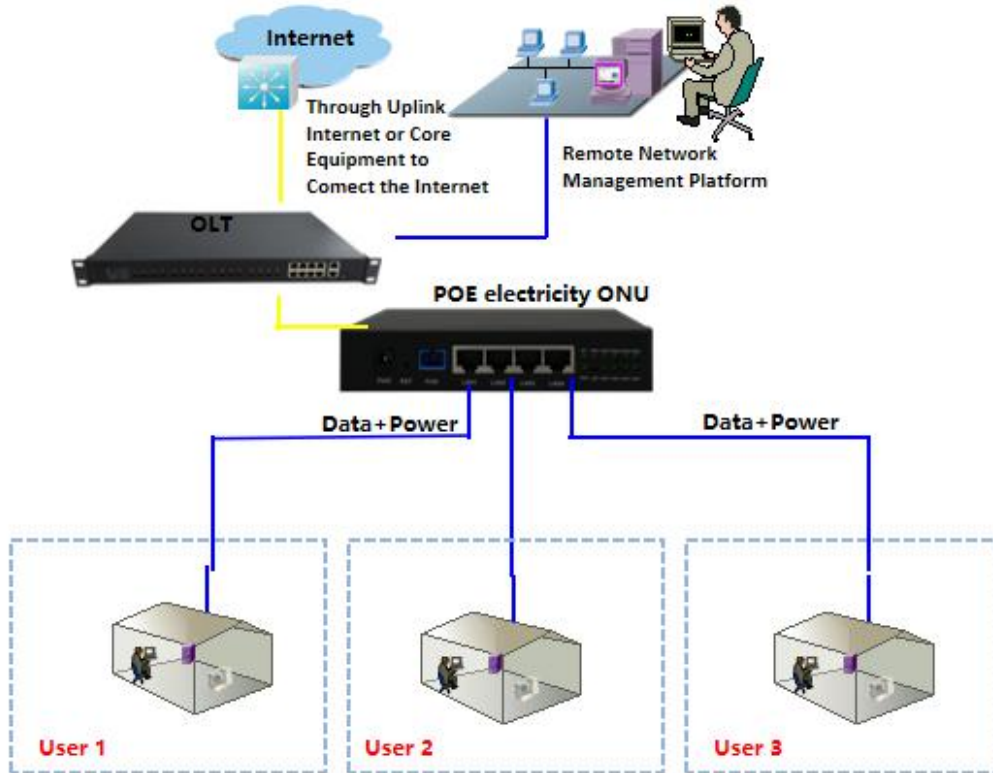

Specification

Item	Parameter
PON Interface	1*GPON port, FSAN G.984.2 standard Downstream Data Rate: 2.488Gbps Upstream Data Rate: 1.244Gbps SC/UPC single mode fiber 28dB Link loss and 20KM distance with 1:128
User Ethernet Interface	4*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance POE, POE+ function
PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0.5~5dBm Rx Sensitivity: -28dBm Saturation Optical Power: -8dBm
Data Transmission Parameter	PON Throughput: Downstream 2.488Gbit/s; Upstream 1.244Gbit/s Ethernet: 1000Mbps Packet Loss Ratio: 1×10^{-12} latency: 1.5ms
Business Capability	Layer 2 wire speed switching Support VLAN TAG/UNTAG, VLAN translation Support Port-based speed limitation Support Priority classification Support storm control of broadcast Support loop detection
Management Mode	OMCI, WEB, Telnet
Management Function	Status monitor, Configuration management, Alarm management, Log management
Power	Support POE feed (PSE) PSE output voltage: 48V DC The maximum output power of the whole machine: 58W, the maximum output power of a single port: 30W Max machine power consumption: 65W
Physical Specifications	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)

Network Application

Typical Solution: FTTB

Typical Business: INTERNET, camera



Ordering Information

Product Name	Product Model	Descriptions
4GE+PSE Building ONU	FD514GB-PFG-R410	4*10/100/1000M Ethernet interface, 1 GPON interface, black metal casing, support POE power feed (PSE)