

FD514GB-PRG-Z410 4GE+PD Building ONU



Brief Views

FD514GB-PRG-Z410 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 is the latest generations of access network technology. ITU-T G.984 is the standard protocol of GPON. The GPON standard differs from other PON standards in that it achieves higher bandwidth and higher efficiency using larger, variable-length packets. GPON offers efficient packaging of user traffic, with frame segmentation allowing higher quality of service (QoS) for delay-sensitive voice and video communications traffic. GPON networks provides the reliability and performance expected for business services and provides an attractive way to deliver residential services. GPON enables Fiber To The Home (FTTH) deployments economically resulting to accelerated growth worldwide.

FD514GB-PRG-Z410 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.

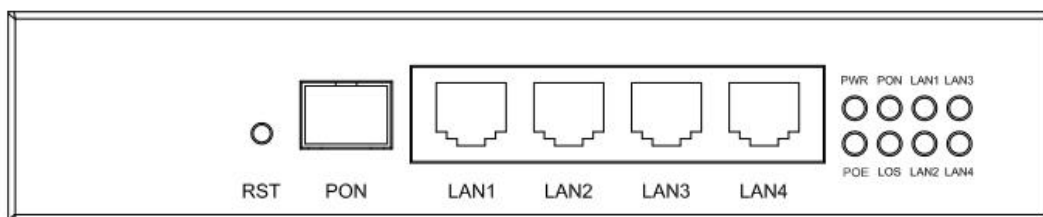
FD514GB-PRG-Z410 Building ONU have a high reliability and provide quality of service guarantee, easy management, flexible expansion and networking. It's fully meet the ITU-T technical standards and have good compatibility with third party manufacturers OLT.

Functional Feature

- In compliant with ITU - T G.984 Standard, adapting GPON upstream

- 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 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	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
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Specification

Item	Parameter
PON Interface	1*GPON port, FSAN G.984.2 standard, Class B+ 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
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*10E-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
Network Management	Standard compliant OMCI interface as defined by ITU-T G.984.4 Support WEB management
Management Function	Status monitor, Configuration management, Alarm management, Log management
Shell	Black metal casing
Power	Support POE supply power(PD) PD input Voltage: 36~57V DC Machine power consumption: <5W
Physical Specifications	Item Dimension: 150mm(L) x 115mm(W) x 30mm (H) Item weight: 0.5kg
Environmental Specifications	Operating temperature: -15 to 55°C Storage temperature: -40 to 85°C

	Operating humidity: 10% to 90%(Non-condensing) Storage humidity: 10% to 90%(Non-condensing)
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Network Application

Typical Solution: FTTB

Typical Business: INTERNET

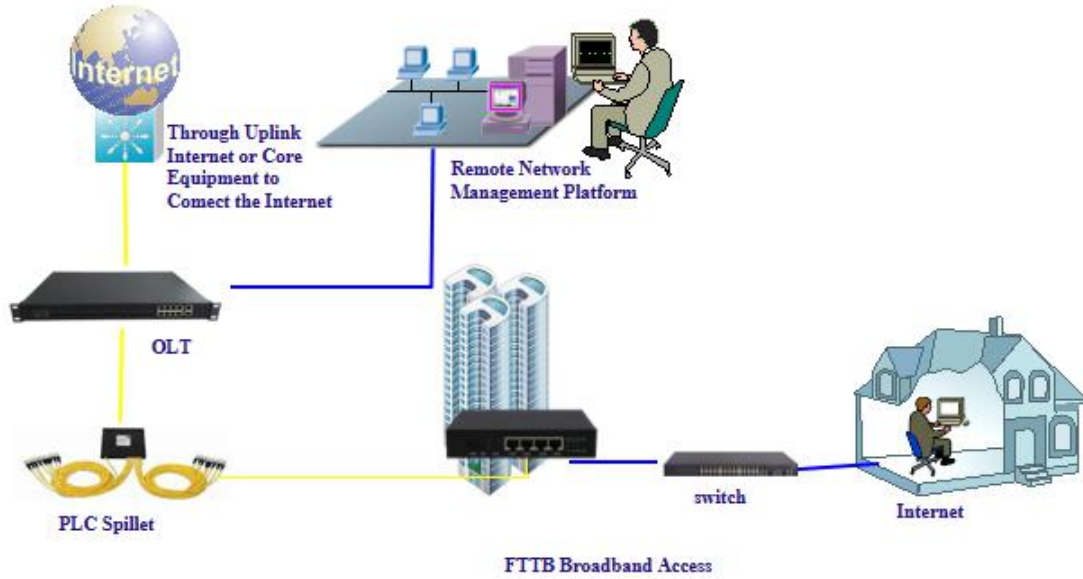


Figure: FD514GB-PRG-Z410 Building ONU Application Diagram

Ordering Information

Product Name	Product Model	Descriptions
4GE+PD Building ONU	FD514GB-PRG-Z410	4*10/100/1000M Ethernet interface, 1 GPON interface, black metal casing, support POE power supply(PD)