

FD600-504 series GPON ONT



Brief Views

FD600-504 series GPON ONT is one of the GPON 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 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.

FD600-504 series 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.

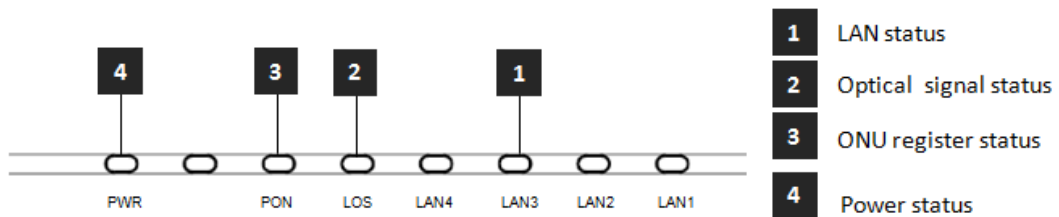
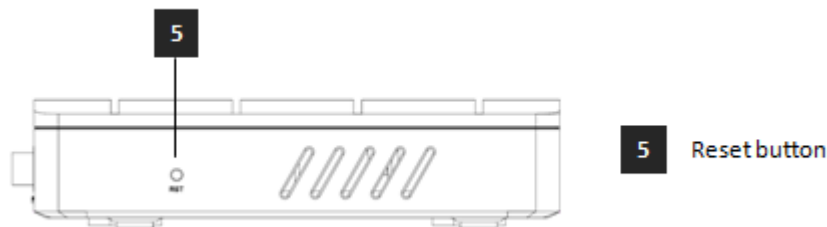
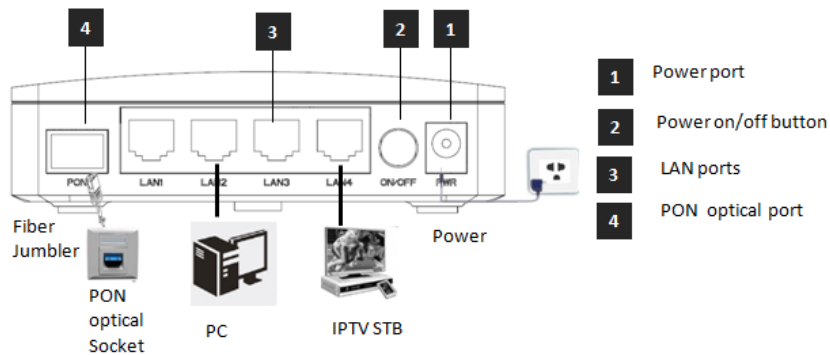
The device shell adopts personalized ventilation design, simple, fashion, steady. High quality environmental protection material is impact resistant, high temperature resistant and good heat dissipation effect to providing users with a more secure Internet environment.

Functional Feature

- Support port-based rate limitation and bandwidth control;
- In compliant with ITU G.984 Standard
- Support data encryption, group broadcasting, port Vlan separation ,etc.
- Support Dynamic Bandwidth Allocation (DBA)
- Support ONU auto-discovery/Link detection/remote upgrade of software;

- Support port mode of VLAN configuration
- Support power-off alarm function ,easy for link problem detection
- Support broadcasting storm resistance function
- Support port isolation between different ports
- Support port flow control
- Support ACL and SNMP to configure data packet filter flexibly
- Specialized design for system breakdown prevention to maintain stable system
- Support software online upgrading
- EMS network management based on SNMP ,convenient for maintenance

Product interface and LED definitions



Indicator			Description
1	LANn	LAN Port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
2	LOS	GPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal

3	PON	ONU Register	On: Success to register to OLT Blinking: In process of registering to OLT; Off: In process of registering to OLT;
4	PWR	Power status	On: The ONU is power on; Off: The ONU is Power off;

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/PC single mode fiber 28dB Link loss and 30KM distance with 1:128
User Ethernet Interface	4*10/100M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
Power Interface	12V DC Power supply An external 12V 0.5A AC/DC power supply adapter
PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0~5dBm Rx Sensitivity: -27dBm Saturation Optical Power: -8dBm Connector Type: SC Optical Fiber: 9/125 μ m single-mode fiber
Data Transmission Parameter	PON Throughput: Downstream 2.488Gbit/s s; Upstream 1.244Gbit/s Ethernet: 100Mbps Packet Loss Ratio: <1*10E-12 latency: <1.5ms
Business Capability	Layer 2 wire speed switching Support VLAN TAG/UNTAG, VLAN conversion Support Port-based speed limitation Support Priority classification Support storm control of broadcast Support loop detection
Network Management	ONU can be remotely managed by OLT 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	Plastic casing

Power	<3W, 12V/0.5A power supply adapter
Physical Specifications	Item Dimension: 130mm(L) x 110mm(W) x 24mm (H) Item weight: 0.18kg
Environmental Specifications	Operating temperature: 0 to 50°C Storage temperature: -40 to 85°C Operating humidity: 10% to 90%(Non-condensing) Storage humidity: 10% to 90%(Non-condensing)

Network application

Typical Solution: FTTH, FTTO

Typical Business: INTERNET, IPTV, VOD, IP Camera, WIFI

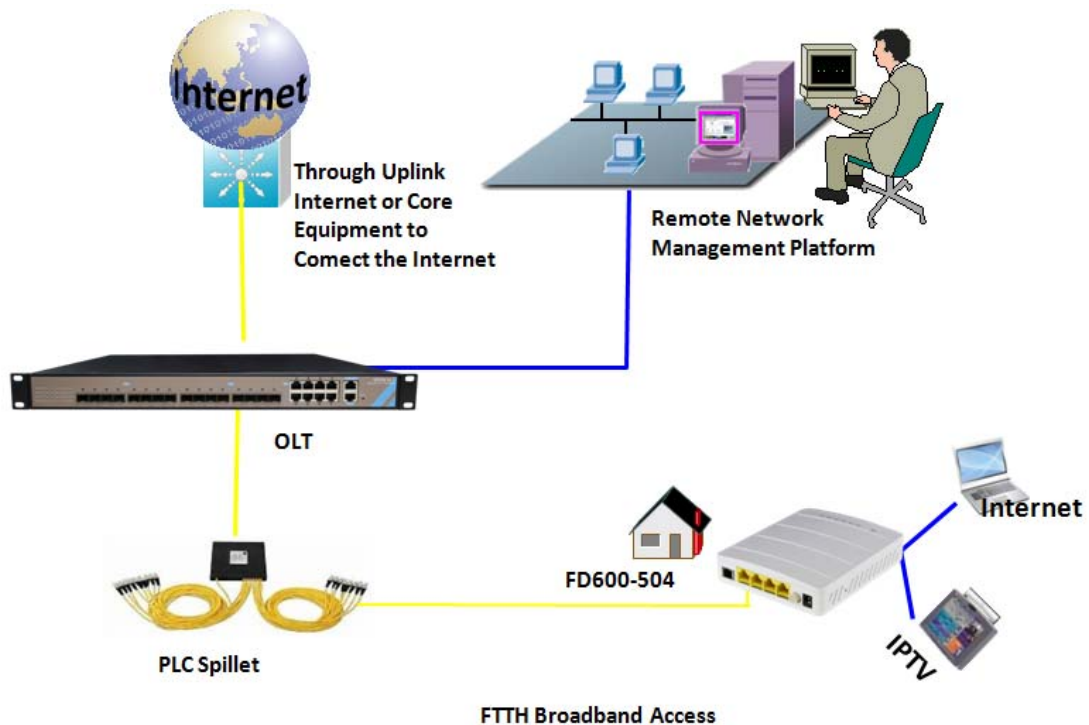


Figure: FD600-504 Application Diagram

Ordering Information

Product Name	Product Model	Descriptions
4FE	FD600-504F-HZ700	4*10/100M Ethernet interface, 1 GPON interface, plastic casing, external power supply adapter