

## FD504X-G-R310 1GE+3FE Data Type ONT



### Brief Views

FD504X-G-R310 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.

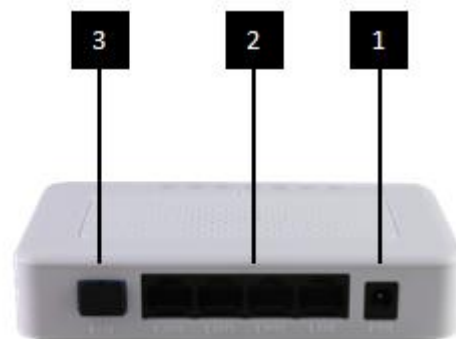
FD504X-G-R310 have a high reliability and provide quality of service guarantee, easy management, flexible expansion and networking. It's fully meet the ITU-T technical standards and have good compatibility with third party OLT.

### Functional Feature

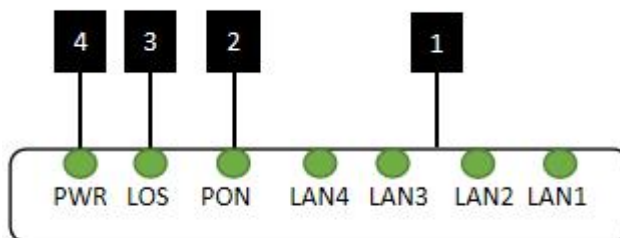
- In compliant with ITU - T G.984 standard, adapting GPON upstream
- Support ONU auto-discovery/Link detection/remote upgrade of software;
- Support SN and LOID+Password multiple registration methods
- Support port VLAN configuration
- Support mac-address learning
- Support port-based rate limitation and bandwidth control;
- Support port 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 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



- 1** DC Power Port
- 2** LAN Port
- 3** Optical Port



- 1** LAN Port Status
- 2** ONU Register Status
- 3** Optical Signal Status
- 4** Power Status

Indicator			Description
1	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;
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;

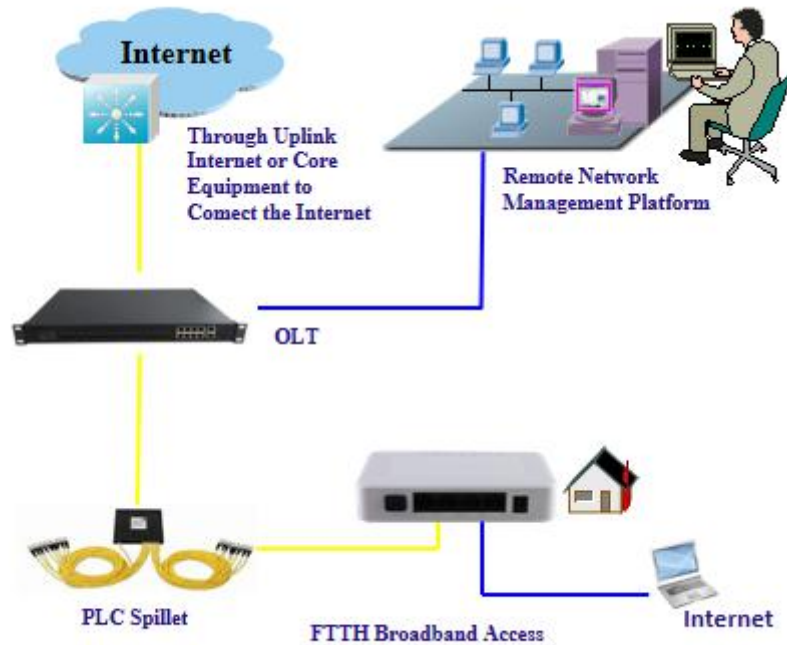

**Specification**

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/UPC single mode fiber 28dB Link loss and 20KM distance with 1:128
User Ethernet Interface	1*10/100/1000M and 3*10/100M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
Power Interface	An external 12V DC 0.5A power supply adapter
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: 100Mbps or 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	OMCI, WEB, Telnet
Management Function	Status monitor, Configuration management, Alarm management, Log management
Power	<4W, 12V/0.5A power supply adapter
Physical Specifications	Item Dimension: 130mm(L) x 90mm(W) x 30mm (H) Item Net Weight: about 93g
Environmental Specifications	Operating temperature: 0 to 40°C Operating humidity: 10% to 90%(Non-condensing)

## Network Application

Typical Solution: FTTH, FTTO

Typical Business: INTERNET, IPTV



## Ordering Information

Product Name	Product Model	Descriptions
1GE+3FE	FD504X-G-R310	1*10/100/1000M and 3*10/100M Ethernet interface, 1 GPON interface, plastic casing, external power supply adapter