

FD511G-X-F310

1GE XPON ONU



High Speed CPU



Low Power Consumption



Software Customization



Optional Shell Supply



Brief Views

FD511G-X-F310 dual-mode ONU supports EPON and GPON two modes access. The ONU automatically switches into the corresponding PON mode by identifying the local OLT mode to complete GPON or EPON adaptive access.

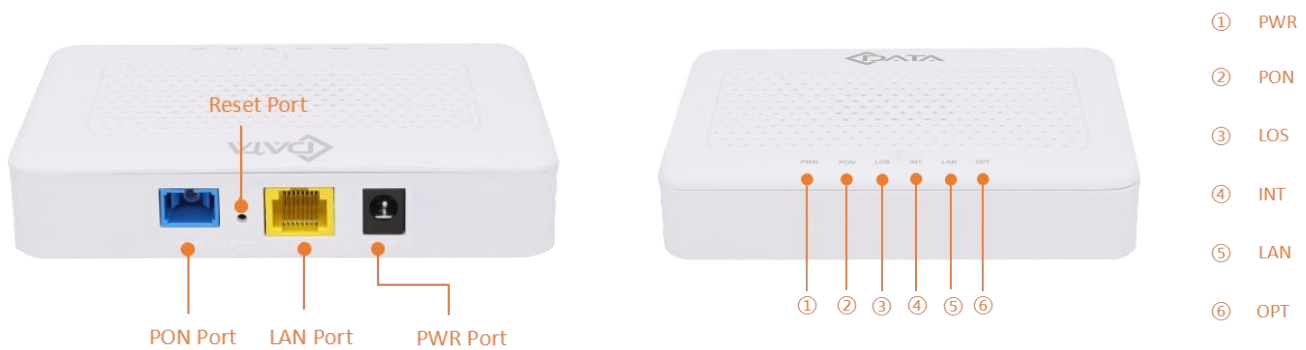
FD511G-X-F310 features high-performance forwarding capabilities to ensure excellent experience with Internet services. It has good third-party compatibility to work with the third party OLT, such as Huawei/ZTE/Fiberhome/Alcatel-Lucent. It provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment.



Functional Feature

- In compliant with IEEE802.3ah and ITU - T G.984 standard
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support multiple registration methods
- Support port VLAN configuration
- Support mac-address learning
- Support port-based rate limitation and bandwidth control
- Support broadcasting storm resistance function
- Support igmp transparent/snooping/proxy mode
- Support Dynamic Bandwidth Allocation (DBA)
- EMS network management based on SNMP ,convenient for maintenance
- Support power-off alarm function ,easy for link problem detection

Product Interface and LED



- ① PWR
- ② PON
- ③ LOS
- ④ INT
- ⑤ LAN
- ⑥ OPT

LED Definitions

Indicator		Description
PWR	Power status	On: The ONT is power on; Off: The ONT is Power off;
PON	ONT Register	On: Success to register to OLT; Blinking: In process of registering to OLT; Off:Failed to register to OLT or no normal optical signal input;
LOS	PON optical signals	On: Optical power lower than receiver sensitivity; Off: Optical in normal;
INT	Internet status indicator	On: The routed WAN Internet access service is normal. Off: The routed WAN Internet access service is abnormal.
LAN	LAN port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
OPT	Light intensity indicator	On:Higher than ONU RX maximum threshold; Flashing: lower than ONURX minimum threshold; Off: ONU RX is within the normal threshold range.

Hardware

● GPON/EPON Port

- SC/APC single mode single fiber
- GPON: FSAN G.984.2 standard,Class B+
- EPON: 1000BASE-PX20+ symmetric
- GPON: 2.488Gbps/1.244Gbps downstream/upstream
- EPON: 1.25Gbps downstream/upstream
- Wavelength :
Transmit: 1310nm Receiver: 1490nm
- Receiving sensitivity :
GPON: -28dBm EPON: -27dBm
- Saturated power :
GPON: -8dBm EPON: -3dBm
- Transmitting power :
GPON: 0.5~5dBm EPON:0~4dBm

● Indicators

- PWR / PON / LOS / LAN / OPT / INT

● User Port(LAN)

- 1*10/100/1000 Mbps Auto-negotiation RJ45 ports
- Full Duplex / Half-Duplex
- RJ45, Auto-MDI/MDI-X
- Transmission Distance 100 Meter

● Power

- External 12V/0.5A DC power supply adapter
- Power consumption: <4.5W

● Dimension and Weight

- Item Dimension:
125mm(L) x80mm(W) x28mm (H)
- Item weight: about 125g

● Environmental Specifications

- Operating temperature: 0 to 40°C
- Operating humidity: 10% to 90%(Non-condensing)

Software

- **Management**
 - EPON :OAM / WEB / Telnet
 - GPON:OMCI / WEB / Telnet
- **Register**
 - Auto-discovery/Link detection/Remote upgrade software
 - Auto/MAC/SN/LOID+Password authentication
- **Switch**
 - MAC address learning
 - MAC address learning account limit
 - Broadcast storm suppression
 - VLAN transparent/tag/translate/trunk
- **Multicast**
 - IGMP V2
 - IGMP VLAN
 - IGMP transparent/Snooping/Proxy
- **Security**
 - Firewall
 - MAC address/URL filter
 - Remote WEB/Telnet access control

Application

- Typical Solution: FTTH
- Typical Business: Internet

