

# FD511G-X-F660

## 1GE XPON ONU



High Speed CPU



Low Power  
Consumption



Software  
Customization



Optional Shell  
Supply



### Brief Views

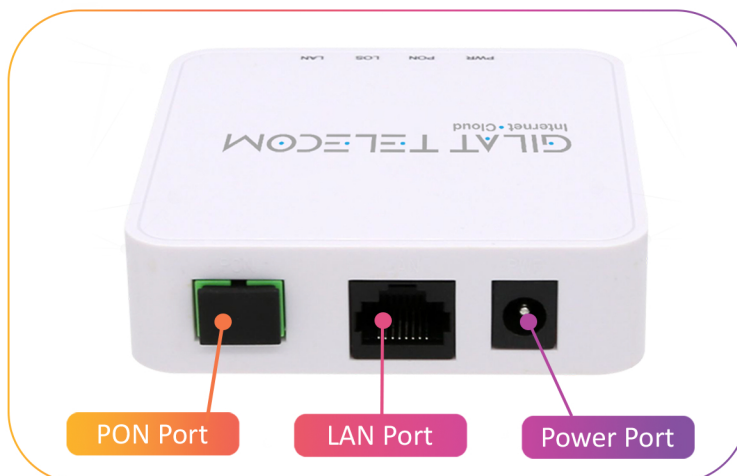
FD511G-X-F660 dual-mode ONU supports EPON and GPON two modes access. The ONU automatically switches into the corresponding PON mode by identifying the local OLT mode to complete GPON or EPON adaptive access.

FD511G-X-F660 features high-performance forwarding capabilities to ensure excellent experience with Internet and HD video 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 port flow-control
- Support broadcasting storm resistance function
- Support igmp transparent/snooping/proxy mode
- Support Dynamic Bandwidth Allocation (DBA)
- Support three layer routing function
- EMS network management based on
- SNMP, convenient for maintenance
- Support power-off alarm function, easy for link
- problem detection

## Product Interface and LED





## LED Definitions

| Indicator |                      | Description                                                                                                                                        |
|-----------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| PWR       | Power status         | On: The ONT is power on;<br>Off: The ONT is Power off;                                                                                             |
| PON       | ONT Register         | On: Success to register to OLT;<br>Blinking: In process of registering to OLT;<br>Off:Failed to register to OLT or no normal optical signal input; |
| LOS       | XPON optical signals | On: Optical power lower than receiver sensitivity;<br>Off: Optical in normal;                                                                      |
| LAN       | LAN port status      | On: Ethernet connection is normal;<br>Blinking: Data is being transmitted through the Ethernet port;<br>Off: Ethernet connection is not set up;    |

## Hardware

### ● GPON/EPON Port

- 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
- Saturated power :  
GPON: -8dBm EPON: -27dBm EPON: -3dBm
- Transmitting power :  
GPON: 0.5~5dBm EPON:0~4dBm

### ● User Port(LAN)

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

### ● Indicators

- PWR/PON / LOS / LAN

### ● Power

- External 12V/0.5A DC power supply adapter
- Power consumption: <3W

### ● Dimension and Weight

- Item Dimension:  
78mm(L) x78mm(W) x23.5mm (H)
- Item weight: about 62.7g

### ● Environmental Specifications

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

## Software

### ● Management

- EPON :OAM/WEB/TR069/ Telnet
- GPON:OMCI/WEB/ TR069/ Telnet

### ● L3

- IPv4/IPv6 Dual Stack

### ● NAT

- DHCP client/server
- PPPOE client/ Pass through
- Static and dynamic routing

### ● Switch

- MAC address learning
- MAC address learning account limit
- Port isolation
- Port flow control
- 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

### ● Register

- Auto-discovery/Link detection/Remote upgrade software
- > Auto/MAC/SN/LOID+Password authentication

## Application

- Typical Solution: FTTH
- Typical Business: Internet

