



GPON ONU

1GE

**FD511G-G-F660**

High Speed CPU



Low Power Consumption



Optional Shell Supply



Software Customization

## Brief Views

FD511G-G-F660 data type ONU is one of the GPON optical network unit design to meet the requirement of the broadband access network. It applies in FTTH/FTTO to provide the data, video service based on the GPON network.

FD511G-G-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 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; 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	GPON optical signals	On: Optical power lower than receiver sensitivity; Off: Optical in normal;
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;

## Hardware

### ● GPON/EPON Port

- Single mode single fiber
- GPON: FSAN G.984.2 standard, Class B+
- GPON: 2.488Gbps/1.244Gbps downstream/upstream
- Wavelength :  
Transmit: 1310nm    Receiver: 1490nm
- Receiving sensitivity :  
GPON: -28dBm
- Saturated power :  
GPON: -8dBm
- Transmitting power :  
GPON: 0.5~5dBm

### ● 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**
  - GPON:OMCI / WEB / TR069 / Telnet
- **Register**
  - Auto-discovery/Link detection/Remote upgrade software
  - Auto/MAC/SN/LOID+Password authentication
- **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

## Application

- Typical Solution: FTTH
- Typical Business: Internet

