

# FD511G-FA10

## 1GE XPON ONU



High Speed CPU



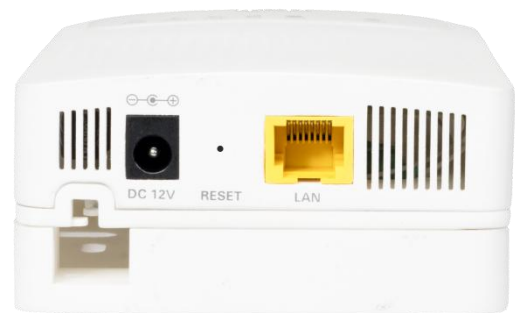
Low Power Consumption



Software Customization



Optional Shell Supply



### Brief Views

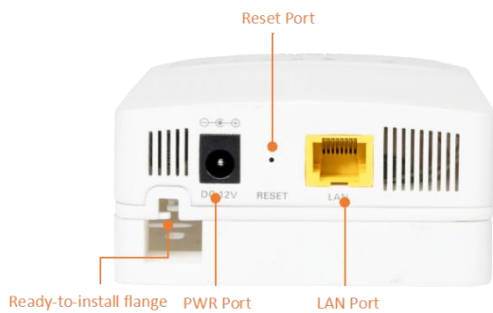
FD511G-FA10 dual-mode ONU supports EPON and GPON two modes access. The ONU automatically switches into the corresponding PON mode by identifying the local OLT mode to complete GPON or EPON adaptive access.

FD511G-FA10 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.x 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
- Support TR069 function (corresponding function version)

## 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;
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;
INT	Internet status indicator	On: The routed WAN Internet access service is normal. Off: The routed WAN Internet access service is abnormal.
LOS	PON optical signals	On: Optical power lower than receiver sensitivity; Off: Optical in normal;

## Hardware

### ● GPON/EPON Port

- SC/APC single mode single fiber
- GPON: FSAN G.984.x 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 / 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 Meters

### ● Power

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

### ● Dimension and Weight

- Item Dimension:
- 110\*86\*30mm ( Without Coiled fiber box )
- 110\*86\*45mm ( With Coiled fiber box )
- 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

