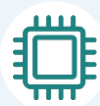


*GPON ONU**1GE+1FE+WIFI****FD512XW-X***

High Speed CPU



Low Power Consumption



Optional Shell Supply



Software Customization

## Brief Views

FD512XW-X data type ONU 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.

FD512XW-X have a high reliability and provide quality of service guarantee, easy management, flexible expansion and networking. It fully meets the ITU-T technical standards and have good compatibility with third party OLT.

FD512XW-X integrates wireless function which meets 802.11 b/g/n technical standards. It has two external high gain omnidirectional antennas, the wireless transmission rate up to 300Mbps. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.

## Functional Feature

- In compliant with ITU - T G.984 standard
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Meet 802.11 b/g/n technical standards
- Support VLAN transparent, tag configuration
- Support multicast function
- Support DHCP/Static/PPPOE internet mode
- Support port-binding
- Support OMCI+TR069 remote management
- Support data encryption and decryption function
- Support Dynamic Bandwidth Allocation (DBA)
- Support MAC filter and URL access control
- Support power-off alarm function ,easy for link problem detection
- Specialized design for system breakdown prevention to maintain stable system
- EMS network management based on SNMP ,convenient for maintenance

## Product Interface and LED



## LED Definitions

Indicator		Description
WIFI	WIFI	Blinking: Data is being transmitted On: WIFI function Open Off: WIFI function Close
FE	FE Port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
GE	GE Port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
LOS	GPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
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;;
PWR	Power status	On: The ONU is power on; Off: The ONU is Power off;

## Hardware

### ● GPON 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)

- RJ-45 connector
- 1\*10/100 and1 \*10/100/1000Mbps adaptive Ethernet port
- Full/half duplex
- Auto MDI/MDI-X

### ● WIFI performance parameters

- IEEE802.11b/g/n(2.4G)
- Max rate: 300M(2.4G)
- Antenna gain: 5dBi
- Max TX power: 2.4G: 17dBm

### ● Indicators

- PWR / PON / LOS / GE / FE / WIFI

- **Power**

- External 12VDC/0.5A power supply adapter
- Power consumption: <4W

- **Dimension and Weight**

- Item Dimension:
- 228mm(L) x 108mm(W) x 28mm (H)
- Item weight: 0.136kg

- **Environmental Specifications**

- Operating temperature: 0 to 40° C
- Storage temperature: -40 to 85° 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
- Broadcast storm suppression
- VLAN transparent/tag/translate/trunk

- **Multicast**

- IGMP V2
- IGMP VLAN
- IGMP transparent/Snooping/Proxy

- **Wireless**

- 2.4G: 4\*SSID
- 2\*2 MIMO
- SSID broadcast/ hide
- Choose channel automatically

- **Security**

- Firewall
- MAC address/URL filter
- Remote WEB/Telnet access control

## Application

- Typical Solution: FTTH
- Typical Business: Internet, Wi-Fi

