# FD512XW-R470

## 1GE+1FE+WIFI XPON ONU

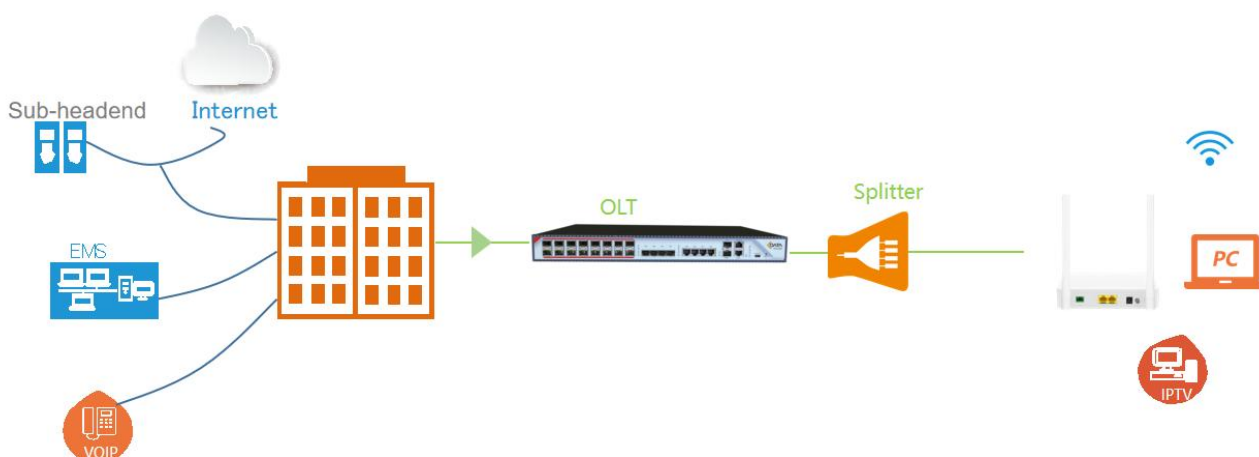**High Speed CPU**   **Low Power Consumption**   **Software Customization**   **Optional Shell Supply**
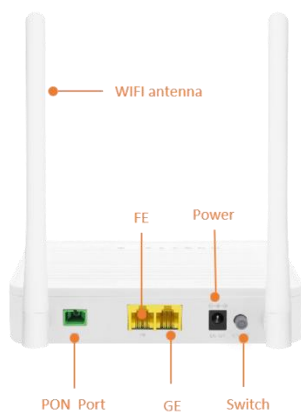
## Brief Views

**FD512XW-R470 is an indoor fiber broadband access terminal. The device provides one GPON / EPON adaptive optical port and supports XPON mode. It can be used in connection with our company FD16 series GPON OLT or FD11 / 12 series EPON OLT. It can also interconnect with the mainstream manufacture (Huawei / ZTE / Fiberhome) GPON or EPON OLT to provide users with Internet, WIFI services based on GPON and EPON technology.**

# Functional Feature

- In compliant with IEEE802.3ah and ITU - T G.984 standard
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support SN and LOID+Password multiple registration methods
- Support port VLAN configuration
- Support port-based rate limitation and bandwidth control
- Support MAC address learning
- Support MAC address learning account limit
- Support VLAN transparent/tag/translate/trunk

- Support broadcasting storm resistance function
- Support igmp transparent/snooping/proxy mode
- Support Dynamic Bandwidth Allocation (DBA)
- Support AES encryption and decryption
- EMS network management based on SNMP ,convenient for maintenance
- Support power-off alarm function ,easy for link problem detection
- Support Firewall
- Support MAC address/URL filter
- Support remote WEB/Telnet access control

# Product Interface and LED

WIFI antenna

FE    Power

PON Port    GE    Switch

① PWR
② PON
③ LOS
④ INT
⑤ GE
⑥ FE
⑦ WIFI

①②③④⑤⑥ ⑦

# 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 | PON optical signals | On: Optical power lower than receiver sensitivity;<br>Off: Optical in normal; |
| GE/FE | 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; |
| INT | Internet status indicator | On: The routed WAN Internet access service is normal.<br>Off: The routed WAN Internet access service is abnormal. |
| WIFI | WIFI | Blinking :Data is being transmitted<br>On:WIFI function Opens |

# Product Specification

| Mechanics | |
|---|---|
| Dimensions | 160mm(L)*112mm(W)*30mm(W)(Antennas are not included) |
| Weight | About 300g |

| Hardware | | |
|---|---|---|
| User Port (LAN) | | RJ-45 connector |
| | | 1*10/100/1000Mbps and 1*10/100Mbps adaptive Ethernet port |
| | | Full/half duplex |
| | | Auto MDI/MDI-X |
| Indicators | | PWR / PON / LOS / GE / FE / INT /WIFI |
| PON Port | Mode | EPON：1000BASE-PX20+ symmetric<br>GPON：FSAN G.984.2 standard,Class B+ |
| | Rate | EPON：1.25Gbps downstream/upstream<br>GPON：2.488Gbps/1.244Gbps downstream/upstream |
| | Wavelength | Transmit: 1310nm / Receiver: 1490nm |
| | Receiving sensitivity | EPON：-27dBm    GPON：-28dBm |
| | Saturated power | EPON：-3dBm    GPON：-8dBm |
| | Transmitting power | EPON:0～4dBm    GPON：0.5～5dBm |

## WIFI

IEEE802.11b/g/n

Max rate: 300M

MAX TX power :17dBm

## Environment

| | |
|---|---|
| Working temperature | 0 to 40$^{\circ}$ C |
| Operating humidity | 10% ~ 90% (Non-condensing) |

## Power

| | |
|---|---|
| External 12VDC/0.5A power supply adapter | |
| Power consumption | ≤6.5W |