FD512GD-R550

2GE+2WIFI XPON ONU

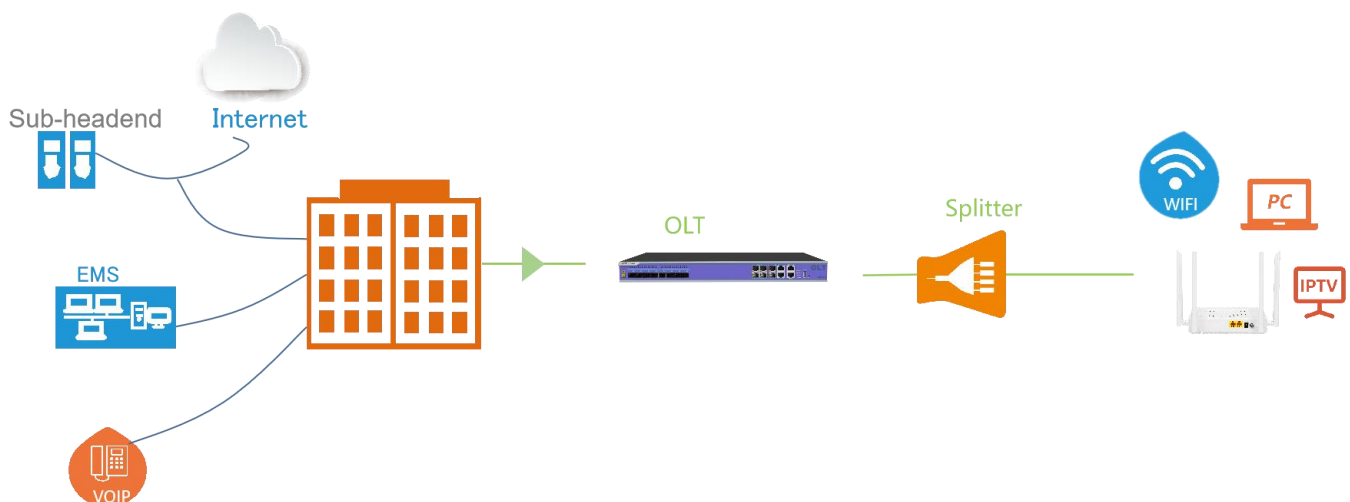**High Speed CPU** **Low Power Consumption** **Software Customization** **Optional Shell Supply**

Brief Views

FD512GD-R550 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 and WIFI services based on GPON and EPON technology.

Sub-headend   Internet

EMS

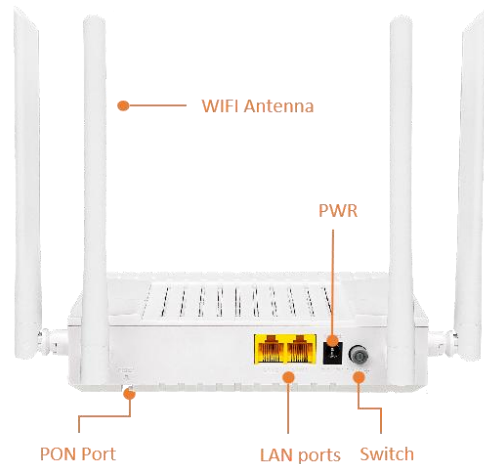VOIP

OLT

Splitter

WIFI   PC

IPTV

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
- Single-fiber access, provides internet, WIFI multiple service.

Product Interface and LED

① PWR

② PON

③ LOS

④ INT

⑤ LAN1-2

⑥ WIFI

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	PON 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;
INT	Internet status indicator	On: The routed WAN Internet access service is normal. Off: The routed WAN Internet access service is abnormal.
WIFI	WIFI	Blinking :Data is being transmitted On:WIFI function Opens

Product Specification

Mechanics	
Dimensions	170*120*41mm
Weight	About 0.23kg

Hardware		
User Port (LAN)		RJ-45 connector
		2*10/100/1000Mbps adaptive Ethernet port
		Full/half duplex
		Auto MDI/MDI-X
Indicators		PWR / PON / LOS / LAN / INT / WIFI
PON Port	PON Mode	EPON：1000BASE-PX20+ symmetric GPON：FSAN G.984.2 standard,Class B+
	PON Rate	EPON：1.25Gbps downstream/upstream 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 performance parameter	
IEEE802.11b/g/n(2.4G) IEEE802.11a/n/ac(5G)	
Max rate: 300M(2.4G) Max rate: 867Mbps(5G)	
MAX TX power 2.4G:17dBm MAX TX power 5G:17dBm	

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

Power	
External 12VDC/1A power supply adapter	
Power consumption	≤11.4W