

FD512GD-R550

2GE+2WIFI XPON ONU



High Speed CPU



Low Power Consumption



Software Customization

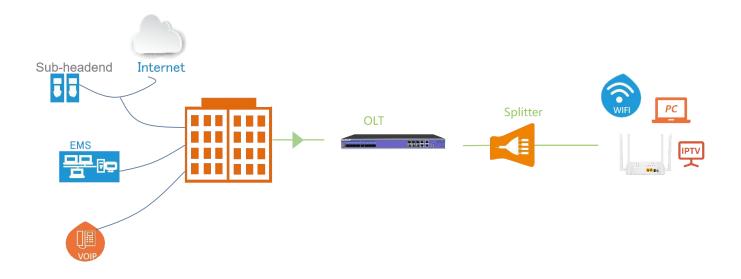


Optional Shell Supply

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.





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;
I VVIX	1 Ower status	Off: The ONT is Power off;
		On: Success to register to OLT;
PON	ONT Register	Blinking: In process of registering to OLT;
		Off:Failed to register to OLT or no normal optical signal input;
LOS	DON ontical signals	On: Optical power lower than receiver sensitivity;
LOS PON C	PON optical signals	Off: Optical in normal;
		On: Ethernet connection is normal;
LAN	LAN port status	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.
		Dinking Data is being transmitted
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 Mode	EPON: 1000BASE-PX20+ symmetric
		GPON: FSAN G.984.2 standard, Class B+
	PON Rate	EPON: 1.25Gbps downstream/upstream
DOM Devil		GPON: 2.488Gbps/1.244Gbps downstream/upstream
PON Port	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		

Copyright © Shenzhen C-Data Technology Co., Ltd. 2023. All rights reserved.

Without the prior written consent of C-DATA, any reproduction, excerpting, backup, modification, translation or any other form of commercial use of this document or any portion of this document, and in any form or by any means, to transmit the document are prohibited.