

FD514GS1-R550

4GE+2WIFI6(AX1500) XPON ONU



High Speed CPU



Low Power Consumption



Software Customization

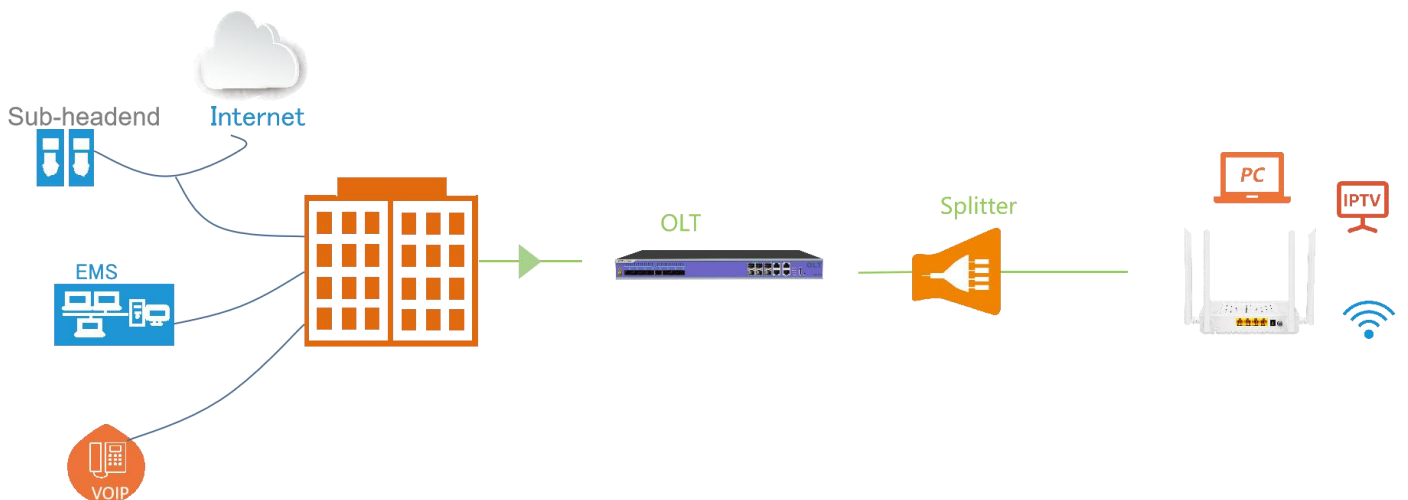


Optional Shell Supply

Brief Views

FD514GS1-R550 is WiFi6 xPON Gateway ONT, it supports 802.11b/g/n standards over 2.4GHz and 802.11a/n/ac/ax standards 5GHz, max speed can up to 1500Mbps.

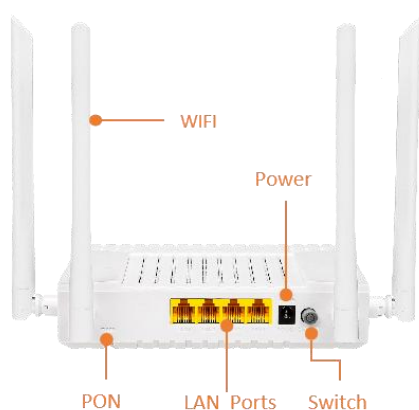
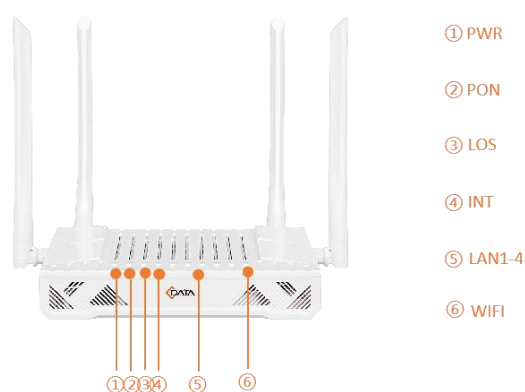
FD514GS1-R550 have a high reliability and provide quality of service guarantee, easy management, flexible expansion and networking. It fully meets the ITU-T and IEEE technical standards and have good compatibility with third party OLT.



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



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;
LAN1-4	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	170mm*120mm*41mm
Weight	About 228g

Hardware			
User Port (LAN)		RJ-45 connector	
		4* 10/100/1000Mbps adaptive Ethernet port	
		Full/half duplex	
		Auto MDI/MDI-X	
Indicators		PWR / PON / LOS / LAN1-4 / 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	
IEEE802.11b/g/n(2.4G) / IEEE802.11a/n/ac/ax(5G)	
2.4G: 40Mhz bandwidth maximum rate 300Mbps 5G: 80Mhz bandwidth maximum rate 1201Mbps Total wireless rate is 1500Mbps	
2.4GHz Max TX Power: 21dBm 5GHz Max TX Power: 19dBm	
2.4GHz antenna gain: 5dBi 5GHz antenna gain: 5dBi	

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

Power	
External 12VDC/1A power supply adapter	
Power consumption	<11W

Certification	
CE, FCC compliant	

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.