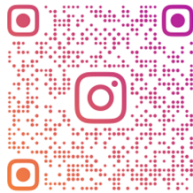# CZ814GD-R850
DATA SHEET

DESCRIPTION

CZ814GD-R850 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 FD16/17 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, VOIP and CATV services based on GPON and EPON technology.
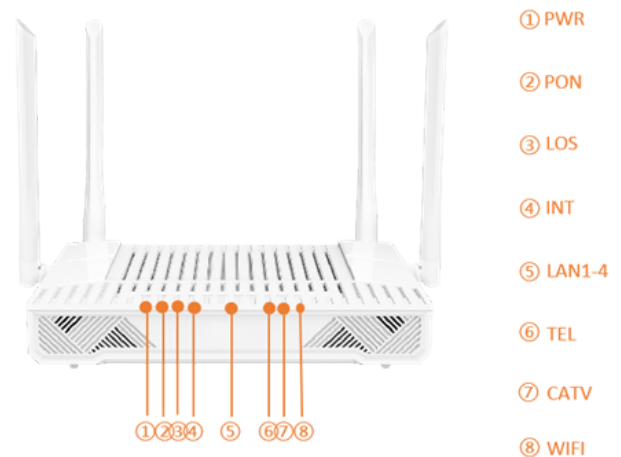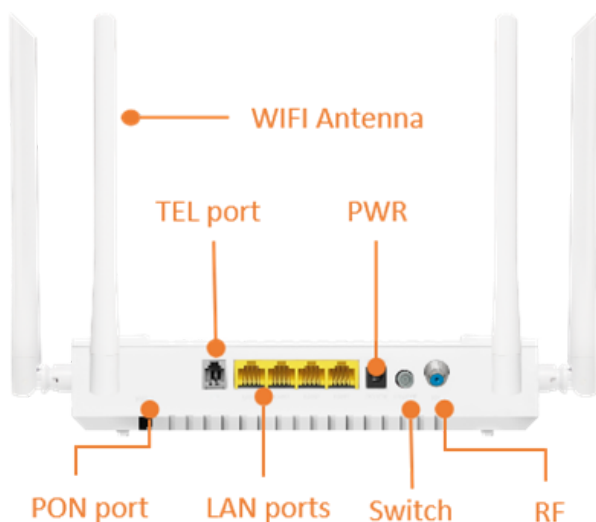
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COMPUZONE97

FEATURES

- 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 remote CATV port management
- 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, VOIP, CATV, WIFI, multiple service

WIFI Antenna

TEL port   PWR

PON port   LAN ports   Switch   RF

① PWR
② PON
③ LOS
④ INT
⑤ LAN1-4
⑥ TEL
⑦ CATV
⑧ WIFI

① ② ③ ④   ⑤   ⑥ ⑦ ⑧

LED OPERATION

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;
GE/FE	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
TEL	Telephone port status	On:The connection between the TEL port and the voice server has been set up Blinking:The voice service of the TEL port is established; Off:The connection is not set up.
CATV	CATV status	On: CATV optical normal Off:The CATV signals are not received

PRODUCT INTERFACES & LEDS

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 / TEL / CATV / 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
	Wavelenght	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

PRODUCT INTERFACES & LEDS

Mechanics

Dimensions	210mm*135mm*45mm
Weight	About 300g

WIFI performance parameter

IEEE802.11b/g/n(2.4G)   IEEE802.11a/n/ac/ax(5G)

2.4G: 40Mhz bandwidth maximum rate 574Mbps
 5G：160Mhz bandwidth maximum rate 2402Mbps
Total wireless rate is 3000Mbps

2.4G EIRP:22dBm / 5 G EIRP:21dBm

Environment

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

CATV（Input /Output port)

Wavelength: 1550nm

Input optical power: -18dBm～0dBm(with AGC)

RF frequency: 47MHz~1000MHz

RF output level: 78dBuV (@-12~-2dBm@85MHz) (with AGC)

RF output return loss: >12dB(with AGC)

RF impedance: 75Ω

Power

External 12VDC/1.5A power supply adapter

Power consumption	≤11.7W

User Port(POTS)

RJ-11 connector	1*accounts	SIP protocol	TDMF	G711U/G711A/G729/G722 encoding and decoding