



5G CPE Pro (WiFi6 MIMO 4*4) Datasheet

V1.0

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1. Product Overview

Changhong 5G enterprise gateway is highly integrated access network equipment, mainly for the users with 5G coverage conditions like the remote branches of enterprises, cluster shops, remote villages and so on, it can cover most of the broadband application scenarios and provide fiber access speed service, stable HD voice services and high speed and reliable data services. Furthermore, the product attaches dual-frequency WI-FI6, full gigabit network port and high gain antenna. Agility for use, rapid deployment and adapt to requirements of multiple scenarios network environment.

2. Product Features

✓ Superior performance

- ◆ Qualcomm X55 5G Modem, 7nm process.
- ◆ Support NSA/SA networking mode
- ◆ Support 3G/4G/5G multi-mode
- ◆ Support Sub-6G full band

✓ High speed network access

- ◆ Support high-speed and stable wired network and 5G wireless network
- ◆ Support link backup to ensure real-time online device

✓ Excellent and stable Wi-Fi experience

- ◆ Support 2.4GHz/5.8GHz dual-band wireless network
- ◆ Support Wi-Fi Mesh
- ◆ MU-MIMO provides Wi-Fi to multiple devices at once
- ◆ Support parental controls、 guest network、 Band steering

✓ HD voice service





- ◆ Support IMS platform
- ◆ Support 1 channels HD voice service

✓ **Security**

- ◆ Support various security features include Firewalls , VPN , SSH protocol.
- ◆ Prevent common web vulnerabilities such as SQL injection, XPath injection, file upload, directory traversal.
- ◆ Support DMZ, support MAC and IP for access control, support black and white list for URL access control
- ◆ Support SSID on and off
- ◆ Support open system, shared key, WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK hybrid mode and other authentication methods
- ◆ Supports encryption modes such as WEP (64bit), WEP (128bit), AES, TKIP, AES/TKIP mixed mode
- ◆ Support national wireless LAN security standards

✓ **Intelligent**

- ◆ Support JVM
- ◆ Support OSGI
- ◆ Support Soft Probe

✓ **Management**

- ◆ Support log management
- ◆ Support local web management





3. Technical Specifications

5G modem	Quectel RG500Q (Qualcomm®Snapdragon™X55 5G modem)	
Memory	RAM	512MB*2
	FLASH	256MB
CPU	IPQ8072A	
Frequency	5G NR: n41/n77/n78/n79 LTE-FDD: B1/B3/B5/B7/B8/B20/B28 LTE-TDD: B34/B38/B39/B40/B41 TD-SCDMA: B34/B39 WCDMA: B1/B8 GSM:900/1800	
Wi-Fi	2.4GHz	QCN5024
	5.8GHz	QCN5024
	● Wireless type supported: IEEE 802.11b/g/n/ac/ax MIMO 4*4 ● Dual band Wi-Fi supports more devices	
Interface	uplink	1 Gigabit WAN port
	downlink	3 Gigabit LAN ports
	SIM Card Slot	Standard USIM Card Size
	VoIP	1* RJ-11 port
	USB	1* USB3.0 port
Button	Power button * 1	
	WPS button * 1	
	LED button * 1	
LED	Power * 1	
	network * 1	
	WAN * 1	
	WPS * 1	
	Wireless * 1	
	LAN1 *1、LAN2 *1、LAN3*1	
	Phone * 1	
antenna	5G	Build-in, 5dBi*8
	Wi-Fi	Built-in omnidirectional antenna, 3dBi*4
Power supply	The input voltage	100V~240V, 50Hz~60Hz 0.3A
	The output voltage	12V/3A
Item Dimensions	L*W*H(mm)	158*119*225mm
working environment	Operating temperature	-5℃~45℃
	Storage temperature	-40℃~85℃
	humidity	10%~95%
EMC	YD/T 1965-2009	
EMI	ESD	GB17626.2
	RS	GB17626.3
	EFT	GB17626.4
	CS	GB17626.6





4. Housing

