

5G CPE Wireless Router

3.3Gbps 4x4 MU-MIMO Dual-band Wireless Router

Plug and play 5G SIM card to simplify network access for families and small business.



Overview

Under the ultra-fast broadband and ultra-low latency 5G network environment, the 5G CPE (Customer Premises Equipment) supports 802.11ax Wi-Fi6, 4x4 MIMO that can be used independently for indoor deployment. And it complies with 3GPP R15 standard and CAT20 rate level that provides stable data, Wi-Fi, voice, security and management maintenance functions and services for home and business.

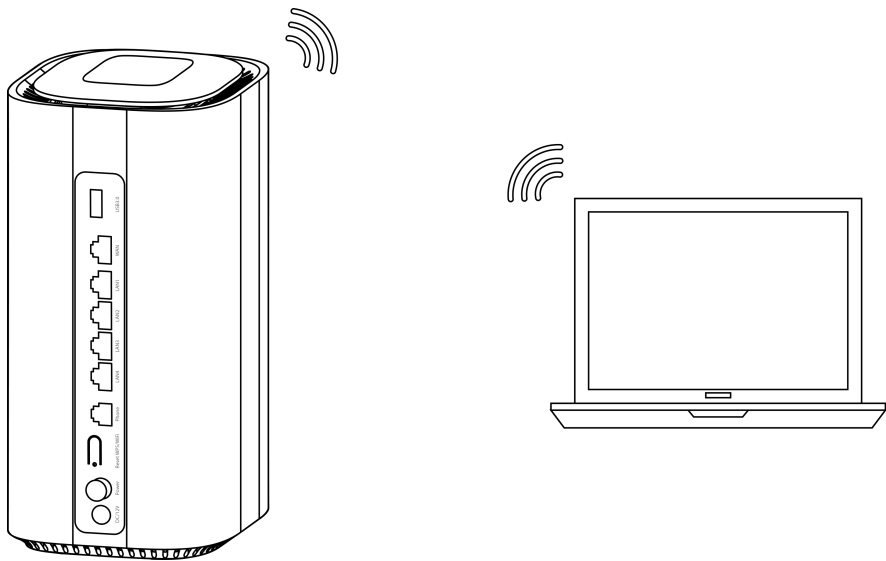
Benefits

- IEEE 802.11 a/b/g/n/ac/ax compliant
- Built-in 4x4 MU-MIMO antenna
- Support NSA/SA network mode
- Qualcomm X55 chipset, Qualcomm dual-band Wi-Fi chip
- 2.5G Ethernet port, support LAN / WAN conversion
- 5G NR, 4G LTE and WCDMA networks support
- Support VoLTE/VoNR service

Application Scenarios

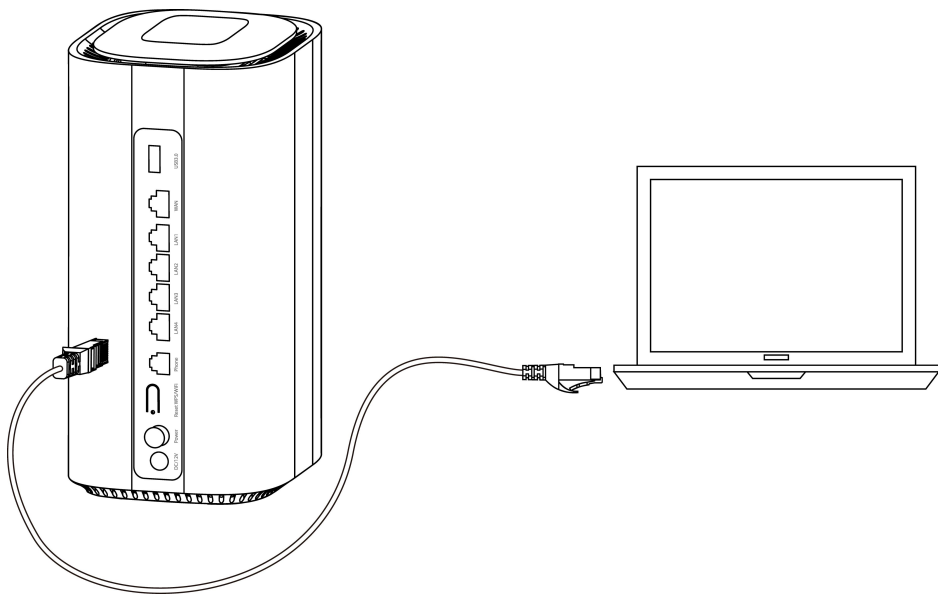
1. Connection through Wireless Network

Internet access device can connect to CPE through wireless network.



2. Connection through an Ethernet Cable

Internet access device can be connected to any LAN port of the CPE through an Ethernet cable.



Hardware Specification

Technology Standard	Description
WAN Standard	Mobile Broadband: 3GPP Release 15 Ethernet: IEEE 802.3/802.3u
LAN Standard	IEEE 802.3/802.3u/802.3bz
WLAN Standard	IEEE 802.11a/b/g/n/ac/ax
5G/4G	Description
Network Mode	NSA/SA
Frequency Band	5G NR: n41/n77/n78/n79 LTE-FDD: B1/B3/B5/B7/B8/B20/B28 LTE-TDD: B34/B38/B39/B40/B41
Applicable Network	5G NR/4G LTE/WCDMA
5G Transmission Rate	3.3Gbps/250Mbps*
LTE Transmission Rate	2Gbps/150Mbps*
Antenna	Description
Antenna	5G/LTE main and diversity antennas, Dual-band Wi-Fi antenna with six signal amplifiers
MIMO	4x4
Construction	Description
Dimensions (HxWxD)	8.41"x4.33"x4.72" (213.7x110x120mm)
Interface	Wan/Lan GE port x1, Lan GE port x4, phone port x1, SIM card slot (microsim) x1
Button	Reset/Power/WPS&WIFI
LED Indicator	5G NR/4G LTE/5G Wi-Fi/2.4G Wi-Fi/2.5G Port/LAN1-LAN4/Phone/Power&SYS
Accessories	Ethernet cable x1, power adapter x1, quick start guide x1
Power Supply	Description
Power Supply	AC: 220V ± 20% 50Hz ± 5% DC: 12 V/3A
Power Consumption	<30W

*Theoretical value. The actual rate depends on the operator.

Hardware Specification

Environment	Description	
Operating Temperature	-10°C to 45°C	
Storage Temperature	-40°C to 70°C	
Humidity	5% - 95% (Non-condensing)	
Environment	Indoor	
Standard	Supported Data Rate (Mbps)	
802.11b	11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps	
802.11g	54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps	
802.11n	600 Mbps (HT40 4ss), 188.9 Mbps (HT20 MCS31)	
802.11ac	1733.2 (HT80 4ss MCS9)	
802.11ax	2402 (HT80 4ss MCS11)	
Output Power	Description	
LTE FDD	Class 3 (23dBm ± 2dB)	
LTE TDD	Class 3 (23dBm ± 2dB)	
5G NR	Class 2 (26dBm ± 2dB)	
WLAN 2.4G	802.11b	20 dBm ± 1 @1 Mbps 20 dBm ± 1 @11 Mbps
	802.11g	20 dBm ± 1 @36 Mbps 17 dBm ± 1 @54 Mbps
	802.11n	18 dBm ± 1 @MCS0 17 dBm ± 1 @MCS7
	802.11a	20 dBm ± 1 @36 Mbps 17 dBm ± 1 @54 Mbps
WLAN 5G	802.11n	19 dBm ± 1 @MCS0 17 dBm ± 1 @MCS7
	802.11ac	19 dBm ± 1 @MCS0 17 dBm ± 1 @MCS7

Software Specification

System	Description	
Mobile Network	Data Business Management	Yes
	Auto/manual Web Search	Yes
	SIM Card Configuration	Yes
	SIM Card Hot Swap	Yes
	Cell Lock, Band Lock	Yes
WAN Features	Dial Method	PPPoE/DHCP/Static
	Rate	Auto-negotiation
	MDI/MDIX	Automatic detection
	WAN/LAN Conversion	Yes
WLAN Features	Transmission Standard	802.11 a/n/ac/ax 4x4 & 802.11 b/g/n/ax 4x4, DL&UL MU-MIMO
	Data Transfer Rate	Dual-band dual-concurrency, 3549Mbps
	Wireless Frequency	2.4GHz & 5GHz, dual-band auto-selection
	Encryption	Ccmp, TKIP, TKIP+Ccmp
	Number of Users	500+
	Multiple SSIDs	Yes
	Visitor Authentication	Yes
	Power Adjustment and Rate Adaptation	Yes
	WPS (PBC / PIN mode)	Yes
	Client & SSID Isolation	Yes
Voice Service	VoLTE/VoNR	Yes

Software Specification

System	Description	
SMS Service	Ordinary SMS Sending and Receiving	Yes
	Cascade SMS over 6 Level	Yes
	100 SMS Storage	Yes
Wireless Security	Firewall Level Settings	Yes
	Built-in NAT Firewall	Yes
	Dos Attacks, Port scanning, ARP Spoofing, ARP Flood Prevention	Yes
	URL/IP/MAC/Port Filtering	Yes
QoS Features	802.11e WMM	Yes
	Traffic Classification and Marking	Yes
	DSCP/802.1p	Yes
	SP and WRR Scheduling Modes	Yes
	Port/VLAN/IP-Based Rate Limiting	Yes
Maintenance Features	WebUI Local Management	Yes
	TR069 Remote Management	Yes
	CLI	Yes
	UPnP	Yes
	Profile Management	Yes
	Software Online and Local Upgrade/Rollback	Yes
	System Log Management	Yes
	System Alarm	Yes
	Ping/Tracert/TR069 System Diagnostics	Yes

Software Specification

System Requirement	Description
Operating System	Window XP, Windows Vista, Windows 7/8/8.1/10 or later
Web Browser	IE 8.0 and above Firefox 24.0 and above Safari 6.0 and above Opera 12.0 and above Chrome 27.0 and above

Antenna Specification

Antenna Type	Description	
5G NR/4G LTE	Frequency Range	5G NR: 1400-2700MHz&3300-5000MHz 2500-2700MHz&3300-5000MHz 4G LTE: 700-960MHz&1700-2700MHz
	Impedance	50Ω
	Standing Wave Ratio	<3.5
	Efficiency	>60%
	Gain	>3dBi
	Polarization	Linear polarization
WLAN 2.4GHz/5GHz	Frequency Range	WLAN 2.4GHz: 2400MHz-2500MHz WLAN 5GHz: 5100MHz-5900MHz
	Impedance	50Ω
	Standing Wave Ratio	<2
	Efficiency	>60%
	Gain	>3dBi
	Roundness	± 2dB
	Polarization	± 45° Dual polarization



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