



XM530 5G CPE

Product Description

V1.2

Date 2021-04-06

Product Overview

Summary

5G & WiFi-6 Smart Router System (CPE), is based on brand-new embed platform, it can be satisfied with growing-up mobile **connections** requirements and provides the fast speed beyond your imagination.

The CPE is compatible with NSA/SA dual-mode, suits to all network types all over the world, it means you just plug and play it and enjoy the ultra-fast broadband connection at any places.

The CPE brings the new way to enable you experience VR/AR/4K/8K streaming freely and easily. With 802.11ax (Wi-Fi 6) technology built-in, the single CPE has wider wireless coverage and more bandwidth. Meanwhile the CPE brings higher security, better network efficiency and longer battery life.

Key Features

■ 5G Cellular

Built-in Qualcomm™ RM520N-EU modem, it has best 5G mobile network performance and works with integrated world-wide 5G to 2G multi-mode.

■ Wi-Fi 6 (802.11ax)

The revolutionary Wi-Fi technology with OFDMA and DL MU-MIMO, faster wireless line, more client connection, lower latency, best network efficiency.

■ Higher Wireless Capacity

Dual-band 6 spatial streams, the CPE outputs 3100Mbps wireless bandwidth (600 + 2475), makes you peace of mind while enjoy UHD videos, online games at the home rush hours. It's the future-proof investment absolutely.

■ Hybrid MESH+ Networking

The CPE inherits the mesh technology and supports "wired / wireless" hybrid networking. It's so convenient to cover all corners and dead-zones by adding one more MESH+ node (another series of router). it improves the deployments of wireless network and optimized the seamless feature.

5G Datasheet

■ 5G Cellular

- 1) 5G Base band: Qualcomm™ RM520N-EU
- 2) 5G Network Modes: SA (standalone), NSA (non-standalone)
- 3) 5G NSA Bands: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n71/n77/n78/n79
- 4) 5G SA Bands: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n71/n77/n78/n79
- 5) 5G Standards:3GPP Release 15
- 6) 5G SA Transmission Speed:2.1Gbps/900Mbps (up to ISPs)
- 7) 5G NSA Transmission Speed:2.5Gbps/650Mbps (up to ISPs)

4G Datasheet

■ 4G Cellular

- 8) LTE Category: Down Cat 16/ UP Cat 18
- 9) LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71
- 10) LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B48
- 11) LTE Down 4 × 4 MIMO:B1/B2/B3/B4/B7/B25/B30/B32/B34/B38/B39/B40/B41/B42/B43/B48/B66
- 12) WCDMA:B1/B2/B3/B4/B5/B8/B19
- 13) LTE : Down 1.0 Gbps; UP 200 Mbps

WiFi6 Datasheet

■ WiFi 6 (802.11ax)

- 1) Working Radio: #1: 600Mbps @ 2.4GHz; #2: 2475Mbps @ 5.1-5.8GHz
- 2) Coding Technology:1024-QAM / OFDMA
- 3) Peak Connections:>500+ Clients
- 4) Wi-Fi Standard Conformance:WiFi6 and 802.11ac / 802.11n backward
- 5) Antenna: built-in 6 pcs high performance antennas with 6 pcs external FEM components.

■ Data Switching

- 1) Mobile 4G/5G Connection (Support APN)
- 2) Giga Ethernet Connection
- 3) MESH:MESH+ hybrid
- 4) 2.4G/5Ghz WiFi
- 5) Advanced Firewall
- 6) MAC Filter
- 7) WiFi Security
- 8) VPN Passthrough and VPN Client (L2TP PPTP)

- 9) IPV4/IPV6
- 10) WEB / APP Mangement
- 11) Firmware upgrade

Hardware specifications

■ Hardware Specification

- 1) CPU: MTK7621DAT+7905N+7905DN+RTL8125B (2.5G)
- 2) Memory:16MB + 256MB Flash + 2* 256MB DDR3
- 3) Ethernet:1*2.5Gbps WAN,2*LAN 1Gbps
- 4) 1* SIM Slot (Nano-SIM)
- 5) Reset button
- 6) MESH+ Button
- 7) MESH+ LED Switch
- 8) LED Indicator
 - MESH+ Working Status (breathing light)
 - 4G Status
 - 5G Status
 - WiFi Status
 - Power Status
- 9) General
 - Power Consumption:<24W
 - DC Power Supply: 12V/3A
 - Working temperature:0°C~40°C, Storage temperature: -20°C~+70°C
 - Humidity:5%~95%
 - Dimensions:108X108X216MM
 - Weight: 1.35KG

Technical specifications

Model	XM530
CPU	MTK7621DAT+ Qualcomm™ RM520N-EU
Flash	16MB + 256MB Flash
RAM	4Gb
WiFi Frequency	2.4G&5G
WiFi Standard	2.4G:802.11b/g/n /ax 2T2R MIMO, 5.8GHz: 802.11a/n/ac/ax 4T4R MIMO
WiFi	2.4GHz :600Mbps ,5GHz :2475Mbps
5G Standard	3GPP Release 15 NSA/SA operation, Sub-6 GHz
5G Network Mode	NSA/SA
5G/4G Data Rate	5G SA Transmission Speed:2.1Gbps/900Mbps (up to ISPs) 5G NSA Transmission Speed:2.5Gbps/650Mbps (up to ISPs) LTE: Down 1.0 Gbps; UP 200 Mbps
5G Frequency Bands	5G NR NSA n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n71/n77/n78/n79 5G NR SA n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n71/n77/n78/n79 MIMO Downlink: 4 × 4 MIMO on n1/n2/n3/n7/n25/n38/n40/n41/n48/n66/n77/n78/n79 Uplink: 2 × 2 MIMO on n41
4G&3G Frequency Bands	LTE Category Downlink Cat 16 / Uplink Cat 18 LTE-FDD B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD B34/B38/B39/B40/B41/B42/B43/B48 LAA B46 (Support 2 × 2 MIMO) Downlink 4 × 4 MIMO B1/B2/B3/B4/B7/B25/B30/B32/B34/B38/39/B40/B41/B42/B43/B48/B66 WCDMA B1/B2/B3/B4/B5/B6/B8/B19
Modulation Mode	5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM WIFI: 1024-QAM / OFDMA

WiFi Output Power	2.4G	Formats and channels		Ant0(DB)	Ant1(DB)		
		80.211 B		25	25		
		80.211 G		23.9	23.8		
		80.211 N20		23	23		
		80.211 N40		23	23		
		80.211 AC 20		22	22		
		80.211 AC 40		21	21		
		80.211 AX 20		21	21		
		80.211 AX 40		21	21		
	5G	Formats and channels		Ant0(DB)	Ant1(DB)	Ant2(DB)	Ant3(DB)
		11a54M		24	24	24	24
		11n20MCS0		23	23	23	23
		11n20MCS7		23	23	23	23
		11n40MCS0		23	23	23	23
		11n40MCS7		22	22	22	22
		11ac20MCS0		23	23	23	23
		11ac20MCS8		21	21	21	21
		11ac40MCS0		21	21	21	21
		11ac40MCS9		20.5	20.5	20.5	20.5
		11ac80MCS0		20	20	20	20
11ac80MCS9		19.5	19.5	19.5	19.5		
11ax20MCS0		20	20	20	20		
11ax20MCS11		19.5	19.5	19.5	19.5		
11ax40MCS0		20	20	20	20		
11ax40MCS11		19	19	19	19		
11ax80MCS0		19.5	19.5	19.5	19.5		
11ax80MCS11		19	19	19	19		
WiFi Receive Sensitivity	<p>2.4G: 11X HE20: -70dBm@MCS11, -80dBm@MCS0. 11X HE40: -70dBm@MCS11, -80dBm@MCS0. 11n HT20: -70dBm@MCS7, -80dBm@MCS0. 11n HT40: -70dBm@MCS7, -78dBm@MCS0. 11g: -68dBm@54Mbps, -82dBm@6Mbps. 11b: -70dBm@11Mbps, -85dBm@1Mbps.</p> <p>5.8G: 11a: -72dBm@54Mbps, -85dBm@6Mbps. 11nHT20: -75dBm@MCS7,-85dBm@MCS0. 11nHT40: -75dBm@MCS7,-88dBm@MCS0 11ac HT80: -65dBm@MCS9 11aX HT80: -65dBm@MCS11</p>						
EVM	<p>802.11n@MCS7: ≤ -30dB 802.11g@54M: ≤ -30dB 802.11b@11M: ≤ -15dB 802.11a@54M: ≤ -28dB 802.11ac @MCS9: ≤ -33dB 802.11aX @MCS11: ≤ -33dB</p>						

Frequency Deviation	±20ppm
Dimension	108X108X216MM
Interface	2*10/100M/1000 LAN 1*10/100M/1000/2500 WAN 1*12V 3A DC Power Input 1 Reset Button 1 Breathing Light Button 1 SIM card slot 1 MESH Networking Button
Network Extension	MESH
Reset	Reset (Long press 10 seconds to restore the factory settings)
MESH	Networking; short press (blue networking light flashes)
LED Indicator	Power, Breathing Light, 4G Signal, 5G Signal, WiFi Signal
Power Consumption	< 36W
Environment	Operating Temperature: -20°C ~ +50°C Storage Temperature:-40°C ~ +70°C Humidity: 5% ~ 95% (Non condensation)
Weight	1.35KG (Includes color box accessories)

Software Function	
IPV4	Support
IPV6	Support
Smart QOS	Support
Parent Control	Support
UPNP	Support
VPN	Supports L2TP VPN client Supports PPTP VPN client
APN	Support
DDNS	Support
DMZ	Support
Port Mapping	Support

MESH	Support private MESH, Qualcomm MESH, and WiFi-SON
APP	Support
TR069	Support
WiFi Encryption	Open WEP WPA2-PSK WPA3-SAE WPA/WPA2-PSK WPA2-PSK/WPA3-SAE
WiFi Band Aggregation	Support
Other	5G connection information display Manual frequency lock Traffic Statistics

Network connection diagram

1、 Accessing the Internet through a Mobile Network (5G/LTE)

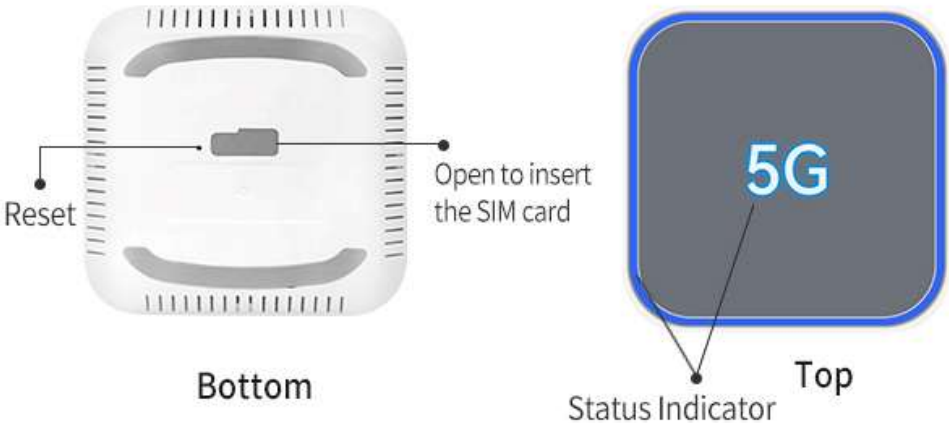
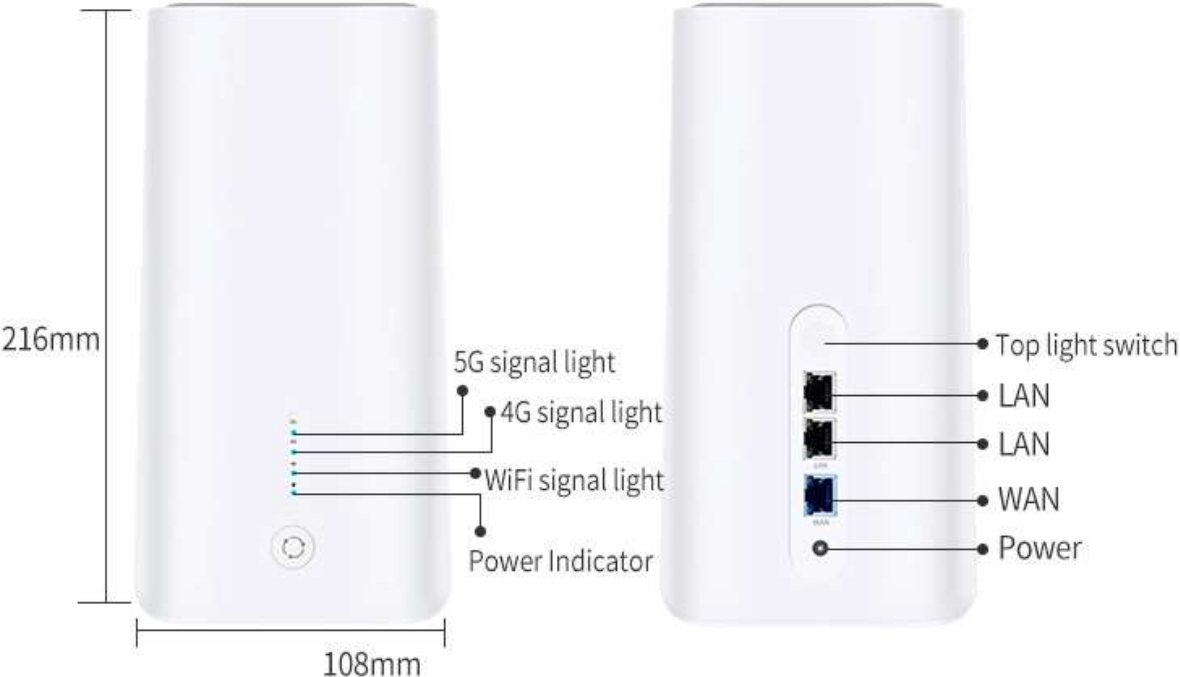


2、 Accessing the Internet through an Ethernet Network



Product Size

Size



What's in the package?

- One (1) 5G CPE Router (XM530)
- One (1) 1m Cat6 Ethernet cable
- One (1) Power Adapter
- Quick Start Guide

*: under development / in progress.

Maximum wireless signal range derived from IEEE standard 802.11 specifications. Actual data throughput and data over distance will vary. Network conditions and environmental factors, including volume of network traffic, building material and construction, and network overhead, result in lower actual data throughput rate and wireless coverage.