

Model: C9015-Q5

(Product Name: 5G & WiFi-6 Smart Router System (CPE))

# **Datasheet**



#### 1. Overview

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.

## 2. Key Features

#### 5G Cellular

Built-in Qualcomm™ SDX62 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-MUMI, faster wireless line, more client connection, lower latency, best network efficiency.

### Higher Wireless Capacity

Dual-band 4 spatial streams, the CPE outputs 1800Mbps wireless bandwidth (600 + 1200), makes you peace of mine 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 Baseband: Qualcomm® Snapdragon™ X62 Modem-RF System
- 2) 5G Network Modes: SA (standalone), NSA (non-standalone)



#### 3) 5G NSA Bands:

n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/n66/n70/n71/n 75/n76/n77/n78/n79

4) 5G SA Bands:

n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/n66/n70/n71/n 75/n76/n77/n78/n79

- 5) 5G Standards:3GPP Release 16
- 6) 5G SA Sub-6 DL2.4Gbps:UL 900Mbps (up to ISPs)
- 7) 5G NSA Sub-6 DL3.4Gbps:UL 550Mbps (up to ISPs)

#### 4G Datasheet

#### **4G Cellular**

- 1) LTE Category: Down Cat 16/ UP Cat 18
- 2)LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71
- 3) LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B48
- 4) LTE Down 4 × 4 MIMO:B1/B2/B3/B4/B7/B25/B30/B32/B34/B38/B39/B40/B41/B42/B43/B48/B66
- 5) WCDMA:B1/B2/B3/B4/B5/B8/B19
- 6) LTE: Down 1.6 Gbps; UP 200 Mbps

#### WiFi6 Datasheet

### WiFi 6 (802.11ax)

- 1) Working Radio: #1: 600Mbps @ 2.4GHz; #2: 1200Mbps @ 5.0-5.8GHz
- 2) Coding Technology:1024-QAM / OFDMA
- 3) Peak Connections:>100+ Clients
- 4) Wi-Fi Standard Conformance: WiFi6 and 802.11ac / 802.11n backward
- 5) Antenna: external 4 pcs high performance antennas with 4 pcs FEM components.

#### **Date Switching**

- 1) Mobile 4G/5G Connection (Support APN)
- 2) Giga Ethernet Connection
- 3) MESH:MESH+ hybird
- 4) 2.4G/5Ghz WiFi



- 5) Advanced Firewall
- 6) MAC Filter
- 7) WiFi Sercurity
- 8) VPN Passthrough and VPN Client (L2TP PPTP)
- 9) IPV4/IPV6
- 10) WEB / APP Mangement
- 11) Firmware upgrade

# 3. Hardware Specifications

### **Hardware Specification**

- 1) CPU: MT7621AT
- 2) Memory:16MB Flash + 256MB DDR3
- 3) Ethernet:1\*1Gbps 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:<20W</li>
- DC Power Supply: 12V/2A
- − Working temperature:0  $^{\circ}$ C  $^{\sim}$ 40  $^{\circ}$ C, Storage temperature: -20  $^{\circ}$ C  $^{\sim}$ +70  $^{\circ}$ C
- Humidity:5% $\sim$ 95%
- Weight: TBD

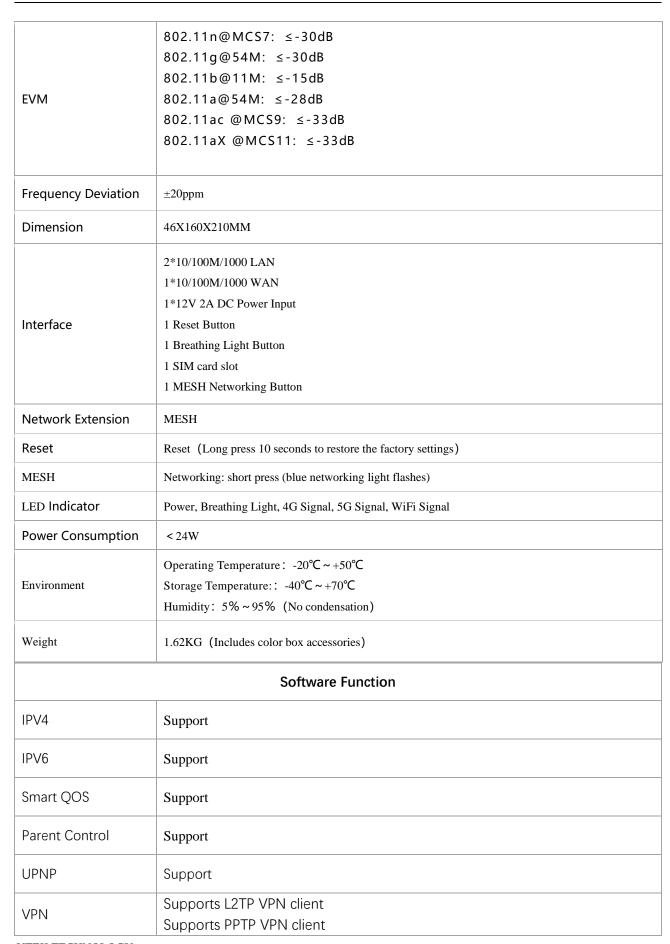


# 4. Technical Specifications

Model	C9015-Q5			
CPU	MT7621AT+X62			
Flash	16MB			
RAM	2Gb			
WiFi Frequency	2.4G&5G			
WiFi Standard	2.4G:802.11b/g/n /ax 2T2R MIMO, 5.8GHz: 802.11a/n/ac/ax 2T2R MIMO			
WiFi	2.4GHz :600Mbps ,5GHz :1200Mbps			
5G Standard	3GPP Release 16 NSA/SA operation, Sub-6 GHz			
5G Network Mode	NSA/SA			
5G/4G Data Rate	5G SA Transmission Speed:2.4Gbps/900Mbps (up to ISPs) 5G NSA Transmission Speed:3.4Gbps/550Mbps (up to ISPs) LTE: Down 1.6 Gbps; UP 200 Mbps			
5G Frequency Bands	<b>5G NR NSA</b> $ n1/n2/n3/n5/n7/n8/n12/n13/n14/n18n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/n66/n70/n71/n75/n76/n77/n78/n79                                    $			
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			



		Formats and					
	2.4G			AntO(DB)		Ant1(DB)	
		channels		20		20	
		80.211B 80.211G		19		19	
		80.211G 80.211N20		19		19	
		80.211N20 80.211N40		18		18	
		80.211N40 80.211AX20		18		18	
		80.211AX40		18		18	
		Formats and		10		10	
		channels	Ant0(DB)	Ant1(DB)	Ant	2(DB)	Ant3(DB)
		11a54M	20	20			
		11n20MCS0	20	20			
		11n20MCS7	20	20			
WiFi Output Power		11n40MCS0	20	20			
		11n40MCS7	19	19			
		11ac20MCS0	20	20			
		11ac20MCS8	19	19			
	5G	11ac40MCS0	19	19			
		11ac40MCS9	18	18			
		11ac80MCS0	19	19			
		11ac80MCS9	18	18			
		11ax20MCS0	19	19			
		11ax20MCS11	17.5	17.5			
		11ax40MCS0	19	19			
		11ax40MCS11	18	18			
		11ax80MCS0	19	19			
		11ax80MCS11	17	17			
WiFi Receive Sensitivity	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						





# Your Reliable Partner in Industrial IoT

APN	Support
DDNS	Support
DMZ	Support
Port Mapping	Support
MESH	Support private MESH
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



# **5. Product View (Appearance)**



# 6. Network Connection Diagram

1.Internet access via mobile network (5G/LTE), plug in your carrier's SIM card and power up to enjoy a blazing fast Internet experience





2.Internet access via Ethernet, (via ONT or other WAN connected to the device)



## 7. Packing list

- C9015-Q5 product: 1pc (standard configuration)
- Power adapter: 1 (standard configuration)
- User manual: 1 (standard)

- Parameter descriptions are based on the IEEE standard 802.11 specification. Actual data throughput and signal coverage capabilities may vary. Network conditions and environmental factors, including network congestion, building materials, and environmental electromagnetic influences may affect the wireless network, resulting in low throughput and limited coverage.
- The product is only supported for indoor use, the whole machine provides a limited warranty service,
   man-made damage is not covered by the warranty. If you have any questions about the product, please
   contact us for technical support.

#### **5G CPE System setting:**

https://www.uotek.com/show-278.html