

Model: UT-9155-Q6

(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/n75/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/n75/n76/n77/n78/n79

5) 5G Standards:3GPP Release 15

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+ 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

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
 - DC Power Supply: 12V/2A
 - Working temperature:0°C ~ 40°C, Storage temperature: -20°C ~ +70°C
 - Humidity:5% ~ 95%
 - Weight: TBD

4. Technical Specifications

Model	UT-9155-Q6
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 15 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	5G NR NSA 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 5G NR SA 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 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)		
		80.211B		20	20		
		80.211G		19	19		
		80.211N20		19	19		
		80.211N40		18	18		
		80.211AX20		18	18		
		80.211AX40		18	18		
	5G	Formats and channels		Ant0(DB)	Ant1(DB)	Ant2(DB)	Ant3(DB)
		11a54M		20	20		
		11n20MCS0		20	20		
		11n20MCS7		20	20		
		11n40MCS0		20	20		
		11n40MCS7		19	19		
		11ac20MCS0		20	20		
		11ac20MCS8		19	19		
		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	<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</p> <p>802.11g@54M: ≤ -30dB</p> <p>802.11b@11M: ≤ -15dB</p> <p>802.11a@54M: ≤ -28dB</p> <p>802.11ac @MCS9: ≤ -33dB</p> <p>802.11aX @MCS11: ≤ -33dB</p>
Frequency Deviation	±20ppm
Dimension	46X160X210MM
Interface	<p>2*10/100M/1000 LAN</p> <p>1*10/100M/1000 WAN</p> <p>1*12V 2A DC Power Input</p> <p>1 Reset Button</p> <p>1 Breathing Light Button</p> <p>1 SIM card slot</p> <p>1 MESH Networking Button</p>
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	< 24W
Environment	<p>Operating Temperature: -20°C ~ +50°C</p> <p>Storage Temperature: -40°C ~ +70°C</p> <p>Humidity: 5% ~ 95% (No condensation)</p>
Weight	1.62KG (Includes color box accessories)
Software Function	
IPV4	Support
IPV6	Support
Smart QOS	Support
Parent Control	Support
UPNP	Support
VPN	<p>Supports L2TP VPN client</p> <p>Supports PPTP VPN client</p>

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

- UT-9155-Q6 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.