

## Industrial Wifi6 5G Router

Model: HC740



### Simple Introduction

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.

### Product Feature

- **5G Cellular**

Built-in Qualcomm™ SDX62 modem, it has best 5G mobile network performance and works with integrated world-wide 5G to 3G 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/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/n66/n71/n75/n76/n77/n78/n79

4) 5G SA Bands:

n1/n2/n3/n5/n7/n8/n12/n13/n14/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/n66/n71/n75/n76/n77/n78/n79

5) 5G SA Transmission Speed:DL 2.4 Gbps; UL 900 Mbps

6) 5G NSA Transmission Speed:DL 3.3 Gbps; UL 600 Mbps

## 4G Cellular

- **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)LAA: B46 (only support 2 × 2 MIMO)

12) WCDMA:B1/B2/B4/B5/B8/B19

13) LTE : Down 1.6 Gbps; UP 200 Mbps

14) WCDMA: 42Mbps; UL 5.76Mbps

## Wifi6 Datasheet

- **Wifi6 (802.11ax)**

1) Working Radio: #1: 600Mbps @ 2.4GHz; #2: 1200Mbps @ 5.1-5.8GHz

- 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.

● **Data Switching**

- 1) Mobile 4G/5G Connection (Support APN)
- 2) Gigabit 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 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, 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℃ ~ 40℃, Storage temperature: -20℃ ~ +70℃
- Humidity:5% ~ 95%

## Product Datasheet

CPU	MTK7621AT			
Flash	16MB			
RAM	2Gb			
Wifi Frequency	2.4G&5.8G			
Wifi Standard	2.4G: 2.4G:802.11b/g/n /ax 2T2R MIMO, 5.8GHz: 802.11a/n/ac/ax 2T2R MIMO			
Wifi	2.4GHz :600Mbps ,5GHz :1200Mbps			
Wifi Output Power	2.4G	Formats and Channels	Ant0(DB)	Ant1(DB)
		802.11B	20	20
		802.11G	19	19
		802.11N20	18	18
		802.11N40	18	18
		802.11AX20	18	18
		802.11AX40	18	18
	5G	Formats and Channels	Ant0(DB)	Ant1(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.</p> <p>11n HT20: -70dBm@MCS7, -80dBm@MCS0. 11n HT40: -70dBm@MCS7, -78dBm@MCS0.</p> <p>11g: -68dBm@54Mbps, -82dBm@6Mbps. 11b: -70dBm@11Mbps, -85dBm@1Mbps.</p> <p>5.8G: 11a: -72dBm@54Mbps, -85dBm@6Mbps.</p> <p>11nHT20: -75dBm@MCS7,-85dBm@MCS0. 11nHT40: -75dBm@MCS7,-88dBm@MCS0</p> <p>11ac HT80: -65dBm@MCS9 11aX HT80: -65dBm@MCS11</p>
EVM	<p>802.11n@MCS7: ≤ -30dB,      802.11g@54M: ≤ -30dB</p> <p>802.11b@11M: ≤ -15dB,      802.11a@54M: ≤ -28dB</p> <p>802.11ac @MCS9: ≤ -33dB,      802.11aX @MCS11: ≤ -33dB</p>
Frequency Deviation	±20ppm
Dimension	210x160x41mm
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 setting)
Mesh	Networking: short press(blue networking light flashes)
LED Indication	Power, Breathing Light, 4G signal, 5G signal, Wifi Signal
Power Consumption	24<W
Environment	<p>Operating Temperature: -20℃ ~ +50℃</p> <p>Storage Temperature: -40℃ ~ +70℃</p> <p>Humidity: -40℃ ~ +70℃</p>
Weight	1.35KG(Includes color box accessories)
<b>Software Function</b>	

IPV4	Support
IPV6 Smart QOS	Support Support
Parent Control	Support
UPNP	Support
VPN	Support L2TP VPN Client Supports PPTP VPN Client
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