



The 5G WiFi6 router is based on a new embedded platform to meet the growing demand for mobile devices.

The CPE is NSA/SA dual-mode compatible for all network types worldwide, which means you can enjoy ultra-fast broadband

connectivity wherever you are by simply plug-and-playing. Enjoy an ultra-fast broadband connection anywhere.

CPE brings new ways to experience VR/AR/4K/8K streaming freely and easily. Built-in 802.11ax (Wi-Fi 6) Technology,

Single CPEWith built-in 802.11ax (Wi-Fi 6) technology, a single CPE delivers more wireless coverage and more bandwidth. At the same time, CPE also brings higher security, better network



## **Hardware Description**

Adopt MT7981B main chip, main frequency up to 1.3GHZ; With independent MT7976CN WIFI6 chip,

total speed up to 3000Mbps; High-speed 512 DDR3, with 256MB SPI Nand Flash(16GB EMMC optional)

1WAN+4LAN 1000Madaptive network port;

Support "one-key flashing mode", long press the reset button to enter the recovery mode;

Built-in M.2 interface and PCIE interface for installing 5G cellular modules;;

External standard Nano SIM card slot ,Reserve Esim design and customize according to customer needs

Support for USB3.0 interface



Qualcomm™SDX62 **5G NR** modem



AX3000
WiFi6 Support 160M bandwidth

USB 1\*USB 3.0 port







## Application scenarios



mobile office



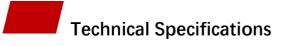
Meeting



Shopping



game



WS1698   Hardware Specifications		
Hardware Specifications	MT7981B+MT7976CN+MT7531AE Dual Core 1.2GHZ DDR3 memory 512MB SPI NAND FLASH 256MB (16GB EMMC optional)	
WIFI Chip	MT7976CN IEEE 802.11n/g/b/a/ac/ax,Max. 3000Mbps	
Protocol Standards	IEEE802.11n/g/b/a/ac/ax,IEEE802.3/802.3u	
Wireless Rate	Dual-band concurrent up to 3000Mbps	
Operating band	2.4GHz 5.8GHz	
4G 5G Modem	4G or 5G modules can be selected, and the frequency band can be selected, Support Cat4/6/12/16/20	
5G NR	NSA n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79 SA n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79	
LTE	LTE-FDD B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 14/ 17/ 18/ 19/ 20/ 25/ 26/ 28/ 29/ 30/ 32/ 66/ 71 LTE-TDD B34/ 38/ 39/ 40/ 41/ 42/ 43/ 48 LAA B46	
UMTS	WCDMA B1/ 2/ 4/ 5/ 8/ 19	
GNSS	GPS/ GLONASS/ BDS/ Galileo/ QZSS	
5G SA Sub-6 5G NSA Sub-6 LTE WCDMA	DL 2.4 Gbps; UL 900 Mbps DL 3.4 Gbps; UL 550 Mbps DL 1.6 Gbps; UL 200 Mbps DL 42 Mbps; UL 5.76 Mbps	
Output Power	11n: 17dBm±1dBm 11g: 17dBm±1dBm 11b: 19dBm±1dBm 11a: 19dBm±1dBm 11ac: 18dBm±1dBm 11AX: 19dBm±1dBm	
Receiving sensitivity	11N HT20 MCS7: -72dBm 11N HT40 MCS7: -69dBm 11G 54Mbps: -74dBm 11B 11Mbps: -86dBm 11A 54Mbps: -73dBm 11AC VHT20 MCS8: -66dBm 11AX VHT20 MCS8: -66dBm	
Antenna	4 x 7dbi high gain omni-directional wifi antennas, 4 x 7dbi high gain omni-directional 4G5G antennas	

	1*10/100M/1000M WAN port with automatic MDI/MDIX with LED
Interface	4*10/100M/1000M LAN ports, auto MDI/MDIX with LED
	1∗USB 3.0 port
	1*PCI-E
	1*M.2
	1*SIM card
	1*SD card(SMD SD memory card)
LED	Power/WIFI/4G/5G
Button	1 Reset button,
Power adapter	DC 12/3000mA
Maximum power consumption	< 24W
Consumption	DL. J
Color scheme	Black
Accessories and	Egg separator paper tray 27*25*8.5cm *1PCS
	Whole box: 53*43*39 10PCS
	Power adapter 12V/3A *1PCS
Packaging	Super Category 5 network cable *1PCS
racing	

	WC1C00   C Ct . C . C	
WS1698   Software Specifications		
Factory default settings	IP address:192.168.1.1 User/password:root/admin	
WAN access mode	PPPoE, dynamic IP, static IP	
Operating Mode	ROUTER (can be customized to add AP mode);	
DHCP server	DHCP servers. Client lists. Static address assignment.	
Virtual Server	Port forwarding. DMZ hosting.	
Supportable system	Original SDK, openwrt	
Security Settings	Wireless encryption, support WEP, WPA, WPA2 and other security encryption modes	
DDNS	Support	
VPN	Support	
WEB Theme Switching	Support	
Bandwidth Control	Support	
Static Routing	Support	
System log	Support	

	Configuration file import and export Web software upgrade	
WS1698   Other specifications		
	Operating temperature: -30℃ to 70℃.	
Working	Storage temperature: -40° C to 70° C.	
Environment	Operating humidity: 10% to 90%RH non-condensing.	
	Storage humidity: 5% to 90%RH non-condensing.	