



## 5G Router

# WS1698

## AX3000 5G Wi-Fi System



### Overview

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



## Features

**5G NR**

Qualcomm™SDX62  
modem

**WiFi6**

AX3000  
Support 160M bandwidth



5\*Gigabit Port

**USB**

1\*USB 3.0 port

## Appearance



## Application scenarios



mobile office



Meeting



Shopping



game



# Technical Specifications

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

Interface	1*10/100M/1000M WAN port with automatic MDI/MDIX with LED 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
Color scheme	Black
Accessories and Packaging	Egg separator paper tray 27*25*8.5cm *1PCS Whole box: 53*43*39 10PCS Power adapter 12V/3A *1PCS Super Category 5 network cable *1PCS

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

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