5G Router

WS1699

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 CPE With 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 512MB DDR3, with 256MB SPI Nand Flash

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 for installing 5G cellular modules;;

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

Features

5G NR X62 5G modem

WiFi6 AX3000 Support 160M bandwidth

5*Gigabit Port

SIM 2*Nano SIM

Appearance

Application scenarios

mobile office

Meeting

Shopping

game

Technical Specifications

WS1699 │ Hardware Specifications	
Hardware Specifications	MT7981B+MT7976CN+MT7531AE Dual Core 1.2GHZ DDR3 memory 512MB SPI NAND FLASH 256MB
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	5G SA Transmission Speed:2.1Gbps/900Mbps (up to ISPs) 5G NSA Transmission Speed:2.5Gbps/650Mbps (up to ISPs) LTE : Down 1.0 Gbps；UP 200 Mbps
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
UMTS	WCDMA B1/ 2/ 4/ 5/ 8/ 19
5G SA Sub-6 5G NSA Sub-6 LTE WCDMA	DL 2 Gbps; UL 1000 Mbps DL 2.6 Gbps; UL 650 Mbps DL 600 Mbps; UL 150 Mbps DL 42 Mbps; UL 11 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*M.2 2*SIM card
LED	Power/WIFI/SIM1/SIM2/4G/5G
Button	1 Reset button,
Power adapter	DC 12V/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

WS1699	Software Specifications	
Factory default settings	IP address:192.168.88.1 User/password:root/admin
WAN access mode	PPPoE, dynamic IP, static IP
Operation Mode	Router and AP mode; Smart Setup Wizard
DHCP Server	DHCP Server Client List. Static address assignment .
Wireless Security Settings	Wireless MAC address filtering 64/128 bit WEP encryption WPA-PSK, WPA2-PSK, WPA3-SAE, WPA/WPA2-PSK , WPA2-PSK/WPA3-SAE WPS (PBC)
Zerotier Applications	Support
TR-069	Support
VPN Private Network	L2TP/PPTP/Wireguard/GRE/Openvpn/ IPsec
Network Settings	Data switch, roaming switch, mode selection, default APN information, APN manual configuration FAILOVER function switch: PPPOE, DHCP, static 4G/5G Band lock, modify Imei number, support IPV4/IPV6/464XLAT
Intelligent QoS	Intelligent management of upload and download bandwidth

WiFi Settings	WiFi basic settings (dual-band, switch, wireless mode, SSID, PWD, encryption algorithm, channel, bandwidth, power adjustment)
SMS Function	SMS sending and receiving, SMS center settings, USSD
Guest Network	Guest network SSID, speed limit, startup time limit configuration
Advanced Settings	MAC address filtering, firewall, static routing, DDNS, virtual server, port forwarding, DMZ hosting, UPnP, domain name access control, MAC cloning settings
System Settings	System Status, Time Setting, Password Management, Configuration Management, Firmware Upgrade, Timed Reboot, System Log, LAN Setting, DHCP Binding, Reboot & Reset,
WS1699｜Other specifications	
Working Environment	Operating temperature: -30℃ to 65℃. Storage temperature: -40°C to 70°C. Operating humidity: 10% to 90%RH non-condensing. Storage humidity: 5% to 90%RH non-condensing.