

5G Dual SIM Router

WS1612

AX3000 5G Wi-Fi systems



Overview

The 5G WiFi6 router is based on a new embedded platform that meets the growing demands of mobile devices.

The 5G WiFi6 router is NSA/SA dual-mode compatible for all network types around the world, which means you can enjoy super-fast broadband.

Plug and play to enable connectivity anytime, anywhere and enjoy ultra-fast broadband connectivity anytime, anywhere.

The 5G WiFi6 router brings new ways to experience VR/AR/4K/8K streaming freely and easily. Built-in 802.11ax (Wi-Fi 6) technology,

With built-in 802.11ax (Wi-Fi 6) technology, a single 5G WiFi6 router can provide greater wireless coverage and bandwidth. At the same time, the 5G WiFi6 router brings higher security and better network performance.



Hardware Description

- openwrt 21.02
- Provides 2 nano-SIM card slots, 1 ESIM card
- Support 5G:NR NSA 5G NR SA dual mode; 4G: LTE-TDD, LTE-FDD; support for ordinary broadband access to the Internet
- Provide 1 10/100M/1000M/2500M Ethernet (WAN) interface.
- Provides 2 10/100M/1000M adaptive Ethernet (LAN) interfaces, and supports automatic MDI/MDIX.
- Supports 2.4G and 5G dual-band frequency, and supports automatic adjustment of wireless transmission rate.
- Supports 64/128-bit WEP encryption, WPA-PSK, WPA2-PSK, WPA/WPA2-PSK, WPA3-SAE, WPA2-PSK/WPA3-SAE encryption and security mechanisms, which can ensure the security of the data transmitted in the wireless network.
- Built-in Network Address Translation (NAT) function.
- Supports WEB software upgrade
- Supports Web management and easy installation wizard.
- Supports relay function
- Support DMZ
- Support client management function
- Support wired network, mobile network switching function



Features

5G NR

Qualcomm™ SDX62
Module

WiFi6

AX3000
Support 160M bandwidth



2.5G WAN port

SIM

2*Nano SIM



Appearance



Application scenarios



mobile office



Meeting



Shopping



game

Technical Specifications

WS1612 Hardware Specifications	
Hardware Specifications	MT7981BA+MT7976CN+MT7531AE+RTL8221B (Dual-core A53 1.3GHz) DDR3 Memory 512MB SPI NAND Flash 128MB
WIFI Chip	MT7976CN IEEE 802.11n/g/b/a/ac/ax,Max. 3000Mbps
Protocol Standard	IEEE802.11n/g/b/a/ac/ax,IEEE802.3/802.3u
Wireless Rate	Dual-band concurrency up to 3000Mbps
Operating Frequency Band	2.4GHz 5.8GHz
5G network mode	5G SA transmission speed: 2.1Gbps/900Mbps (max ISPs) 5G NSA transmission speed: 2.5 Gbps/650 Mbps (up to ISP)

	LTE: 1.0 Gbps downlink up to 200 Mbps
5G frequency band	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
4G frequency band	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
GNSS	GPS/ GLONASS/ BDS/ Galileo/ QZSS
5G SA Sub-6 5G NSA Sub-6 LTE WCDMA	Download 2 Gbps; Upload 1000 Mbps Download 2.6 Gbps; Upload 650 Mbps Download 600 Mbps; Upload 150 Mbps Download 42 Mbps; Upload 11 Mbps
output power	11n: 17dBm±1dBm 11g: 17dBm±1dBm 11b: 19dBm±1dBm 11a: 19dBm±1dBm 11ac: 18dBm±1dBm 11AX: 19dBm±1dBm
receiver 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
antennae	5 x 7dbi high gain omni-directional wifi antenna, 4 x 7dbi High Gain Omni-directional 4G5G Antenna
interfaces	1*10/100M/1000M/2.5G WAN Port, Auto MDI/MDIX with LED Indicator 2*10/100M/1000M LAN Ports, Auto MDI/MDIX with LED Indicators 1*M.2 Module Interface 2* Nano SIM card slots
LED light	Power/WIFI/4G/5G

Pushbuttons	1 reset button
Power Adapter	DC 12/3000mA
Maximum Power Consumption	< 24W
Color	ferrous
Accessories and Packaging	Yellow Box 27*25*8.5CM *1PCS Whole box 53*43*39 10pcs Power Adapter 12V/3A *1PCS Super Category 5 Cable *1PCS

WS1612 Software Specifications	
Factory Default Settings	IP address: 192.168.88.1 Password: admin
WAN Access Mode	5G mobile network, PPPoE, DHCP IP, static IP
Operation Mode	Router and AP modes; 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 lmei number, support IPV4/IPV6/464XLAT
Smart 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	Filtering MAC Addresses, Firewalls, Static Routing, DDNS, Virtual Servers,

	Port Forwarding, DMZ Hosting, UPnP, Domain 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、
WS1612 Other specifications	
working environment	<p>Operating temperature: -30°C to 65°C.</p> <p>Storage temperature: -40°C to 70°C.</p> <p>Operating Humidity: 10% to 90%RH non-condensing.</p> <p>Storage Humidity: 5% to 90%RH non-condensing.</p>