WR302K HARDWARE SPECIFICATION SHEET V1.0

802.11AC WiFi5 1200M Wireless Router

1. Product Brief

WR302K is a cost-effective home dual-band 1200M router product supporting 802.11ac technology, with a 100Mbps network interface. The 5.8G provides a maximum access rate of 866.7Mbps, and the 2.4G provides a maximum access rate of 300Mbps, which can simultaneously meet the needs of 16 terminals for wireless high-speed Internet access. Plug and play, it features high performance, high gain, high receiving sensitivity, high bandwidth, and a large number of access points. With 2*5G high-power amplifiers, it not only covers a larger range but also provides higher wireless transmission performance and stability.

2. Product Pictures

3. Product Features

- Based on the hardware design standards of operators, the anti-electromagnetic interference capability meets the requirements of YD/T 968-2010 "Electromagnetic Compatibility Requirements and Measurement Methods for Telecommunication Terminal Equipment"; the overvoltage and overcurrent protection meets the requirements of YD/T 993-2006 "Lightning Protection Technical Requirements and Test Methods for Telecommunication Terminal Equipment" for indicators such as simulated lightning shock, power line induction, and power line contact, and has a protection capability of common mode 6KV and differential mode 1.5KV; the anti-surge damage capability meets the requirements of YD/T 1082-2011 "Technical Requirements and Test Methods for Overvoltage and Overcurrent Protection and Basic Environmental Adaptability of Access Network Equipment". The enhanced heat sink + optimized air duct ensure that the device will not crash due to overheating in hot summers, fully guaranteeing that the user's network data can be transmitted in real-time, long-term, stably, and efficiently, and improving the user experience.
- Supports 802.11b/g/n/ac protocols, can provide 2.4G 300Mbps + 5G 866.7Mbps wireless access speed, and the whole machine can provide 1200Mbps wireless access speed;
- With 2 5G high-power amplifiers, it provides a larger coverage area and wireless transmission performance for 5G WiFi;
- Continuous product updates, function and performance optimizations to ensure that it can cope with various network environments and improve the user experience.

4. Technical Specifications

Hardware Specifications

Main Chip	MT7628DAN+MT7613BEN/B
Main Frequency	MIPS architecture dual-core 580MHz
Memory	64MB
Flash Memory	8MB
Wireless Technology	2.4G: 300Mbps 802.11b/g/n MIMO technology; 5.8G: 866.7Mbps 802.11a/n/ac MIMO technology
Device Interface	WAN 1/LAN 3 10/100Mbps auto-adaptive DC DC power interface, suitable for the power plug with an outer diameter of 5.5mm, an inner diameter of 2.1mm, and a length of more than 9.5mm to access
Button	Reset button to restore factory settings, press and hold for 6 seconds to restore factory settings
Indicator Light	Status indicator light
Antenna	External 2.4G 5dBi rubber rod antenna * 2 External 5G 5dBi rubber rod antenna * 2
Power Supply	DC 12V/1A, external positive and internal negative
Operating/Storage Temperature	0℃～40℃/-20℃～70℃
Operating/Storage Humidity	10% ～ 90% (non-condensing)/5% ～ 90% (non-condensing)
Size	20 12.5 3.6CM (excluding antenna)
Weight	N/A

WiFi Specifications	
Frequency Range	2.4G: 2.4~2.4835GHz 5G: UNII-1: 5.15~5.35GHz UNII-2: 5.47~5.725GHz UNII-3: 5.725~5.825GHz
Channel	2.4G: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

Distribution	5G: 36, 40, 44, 48, 52, 60, 64, 149, 153, 157, 161, 165
Modulation Mode	802.11b: DSSS (DQPSK, DBPSK, CCK)
	802.11g: OFDM (BPSK, QPSK, 16-QAM)
	802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
	802.11ac: OFDM (BPSK, QPSK, 64-QAM, 256-QAM)
Transmission Speed	11b maximum 11Mbps, 11a/g maximum 54Mbps,
	11n maximum 300Mbps, 11ac maximum 864.7Mbps
Receiving Sensitivity	2.4G:
	11b: ＜-82±1.5dBm @1Mbps,
	＜-76±1.5dBm dBm@11Mbps
	11g: ＜-82±1.5dBm@6Mbps,
	＜-65±1.5dBm @54Mbps
	11n 20MHz: ＜-82±1.5dBm@MCS0,
	＜-64±1.5dBm @MCS7
	11n 40MHz: ＜-79±1.5dBm @MCS0,
	＜-61±1.5dBm @MCS7
	5G:
	11a: ＜-82±1.5dBm @6Mbps,
	＜-65±1.5dBm @54Mbps
	11n 20MHz: ＜-82±1.5dBm@MCS0,
	＜-64±1.5dBm @MCS7
	11n 40MHz: ＜-79±1.5dBm @MCS0,
	＜-61±1.5dBm @MCS7
	11ac 20MHz: ＜-82±1.5dBm @MCS0,

	<-57±1.5dBm @MCS8 11ac 40MHz: <-79±1.5dBm @MCS0, <-54±1.5dBm @MCS9 11ac 80MHz: <-76±1.5dBm @MCS0, <-51±1.5dBm @MCS9
Transmitting Power	2.4G 11b: 15dBm±1.5dBm@11Mbps 11g: 15dBm±1.5dBm@54Mbps 11n(20/40MHz): 15dBm±1.5dBm@MCS7 5.8G 11n(20/40MHz): 18dBm±1.5dBm@MCS7 11ac(40/80MHz): 18dBm±1.5dBm@MCS9

Software Functions	
Language	Chinese and English bilingual switch
Working Mode	Routing mode
Number of connected users	32 Peoples
Management mode	Web remote management
Dashboard	Device information/Network/Running Status/Internet/ Wireless/LAN/Port Status
Sysinfo	Network: WAN-IPv4/LAN Routing: Routing Table/IPv6 Route/ARP Cache WiFi Users/Host List
Network	WAN Type: Dynamic IP/Static IP/PPPoE, IPv6 Addr Switch, DNS Server
LAN	MAC/IP Address/Netmask

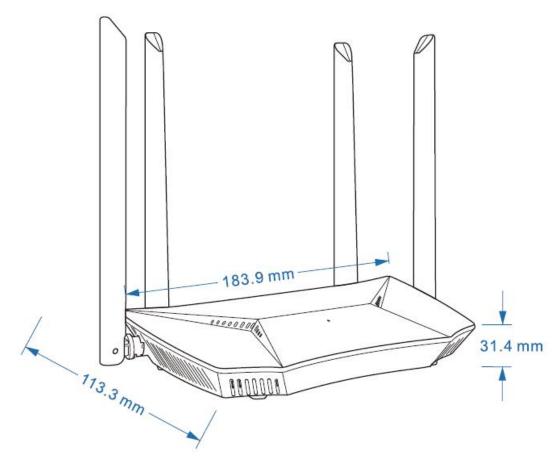|	
Wireless	Radio 2.4G/5g Wireless Switch/SSID/Security(OPEN, WPA-PSK(TKIP),WPA2-PSK(TKIP+CCMP), WPA2-PSK(CCMP),WPA2/WPA3-PSK(CCMP,SAE), WPA3-PSK(SAE),WPA-Enterprise,WPA2-Enterprise)/ PSK Password/WMM/Isolate/HideSSID
System	Fimware Upgrad/Upload configuration/Backup configuration/Restore to Factory Default/Reboot Device/ Device name modification
Advanced-Radio	2.4G/5G Radio Region/Channel/Channel Width/FILS Support/Tx Power/Beacon Intval/RTS threshold/DTIOM Intval/Max Associated/Weak Signal Threashold
Advanced-Multiple SSID	Each radio frequency supports up to 8 wireless Configurations Support deleting wireless configuration based on SSID, encryption, PSK Password, HiddeSSID, Radio, WMM, Isolate adding machine
Advanced-DHCP Server	DHCP Server Switch, DHCP Pool Start, DHCP Pool Size, DHCP Lease Time, Primary DNS Server, Secondary DNS Server
Advanced-Wireless ACL	Mode: No limit/Blacklist/Whitelist MAC List: Supports adding to the list from the wireless user list add manually
Advanced-Ping Watchdog	Ping Watchdog switch, Address, Checking Interval, Number of failure, Ping timeout, Action(Reboot, Close Wireless, Restart Network, Enable Rescue SSID, No

	Action)
Advanced-Scheduled Reboot	Scheduled Reboot switch, Reboot Cycle, Reboot Time
Advanced-Password	Old Password, New Password, Confirm Password Hostname Change
Advanced-Time	System Time, NTP, Time Zone, Time server
Advanced-Diagnostic	Support ping and tracert tools for network detection

V. Product Dimension Drawing

5. Packaging Information

WR302K * 1, DC 12V/1A power adapter * 1, network cable * 1, instruction manual (including warranty card)