802.11AX WiFi6 3000Mbps Wireless Router

Model: WR3005K

Description:

WR3005K WiFi 6 AX3000 Router is an enterprise-grade dual-band wireless router designed for high-density, high-speed networks. Powered by MT7981B + MT7976 chipset and advanced WiFi 6 technology, it delivers up to 2976Mbps combined wireless speed (573.5Mbps on 2.4GHz + 2402Mbps on 5GHz) and supports 128 concurrent users. With gigabit Ethernet ports, mesh networking, and carrier-grade surge protection, it ensures reliable connectivity for homes, restaurants, offices, and SMBs.

Main Features:

- WiFi 6 AX3000 Performance – 573.5 Mbps on 2.4 GHz + 2402 Mbps on 5 GHz = 2976 Mbps aggregate
- MTK Chipset Architecture – optimized for performance, stability, and cost-efficiency
- High-Concurrency Support – up to 128 simultaneous users with MU-MIMO & OFDMA
- Six High-Gain External Antennas – improved coverage and spatial multiplexing
- Gigabit Wired Interfaces – 1 × WAN + 3 × LAN ports with up to 2 Gbps hardware NAT forwarding
- Mesh & Relay Capability – supports self-forming mesh networks and repeater mode
- Robust Protection & Reliability – surge, over-voltage, over-current, ESD shielding
- Flexible Operation Modes – router, bridge, relay, VPN, IPv4/IPv6, IPTV support
- Comprehensive Security Suite – WPA3, guest network, MAC/IP filtering, firewall
- Simple Setup & Remote Management – wizard, web UI, TR-069, remote firmware update

Hardware Specification:

Model	**WR3005K**
Main Chip	MT7981B+MT7976+MT7531 High-performance enterprise-level chip
Frequency	ARM dual-core 1.3GHz
Memory	512MB
Flash	128MB
Wireless Technology	- 2.4G WiFi 2*2 802.11b/g/n/ax (theoretical maximum speed up to 574Mbps) - 5.8G WiFi 3*3 802.11a/n/ac/ax (theoretical maximum speed up to 2402Mbps) - 1024QAM high-speed access rate, OFDMA high-density user access - OFDMA/MU-MIMO uplink/downlink

	- BSS Color spatial reuse - Space-time block code (STBC), low-density parity check (LDPC), beamforming TX/RX for uplink and downlink Power-saving features: single antenna standby technology, dynamic MIMO power-saving technology, enhanced automatic power-saving transmission technology, packet-by-packet power control technology, etc.
Device Interfaces	- WAN*1/LAN*3 10/100/1000Mbps adaptive - DC power interface compatible with power plug with outer diameter of 5.5mm, inner diameter of 2.1mm, and length above 9.5mm
Buttons	- Reset button for factory reset (long press for 6 seconds to reset) - WPS button for easy password-free connection
Indicators	Status indicators
Antennas	- External 2.4G 5dBi rubber rod antennas * 2 - External 5G 5dBi rubber rod antennas * 4
Power	DC 12V/1A, positive outer and negative inner
Operating/Storage Temperature	-10℃～45℃/-20℃～70℃
Operating/Storage Humidity	10% to 90% (non-condensing) / 5% to 90% (non-condensing)
Dimensions	208.6*129.5*40.6mm(excluding antennas)
Weight	Approximately 680g

WiFi Spec	
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 5G: 36、40、44、48、52、60、64、149、153、157、161、165
Modulation	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) 802.11ax: OFDMA (BPSK,256-QAM, 1024-QAM)
Transmission Rate	11b up 11Mbps，11g up 54Mbps，11n up 300Mbps 11ac up 864.7Mbps，11ax 2.4G up 573.5Mbps，11ax 5G up 2402Mbps
Receiver Sensitivity	2.4G: 11b: ＜-119±1.5dBm @1Mbps， ＜-90±1.5dBm dBm@11Mbps

	11g: ＜-96±1.5dBm@6Mbps， ＜-78±1.5dBm @54Mbps 11n 20MHz: ＜-96±1.5dBm@MCS0， ＜-76±1.5dBm @MCS7 11n 40MHz：＜-92±1.5dBm @MCS0， ＜-74±1.5dBm @MCS7 11ax 20MHz: ＜-96±1.5dBm @MCS0， ＜-66±1.5dBm @MCS11 11ax 40MHz: ＜-94±1.5dBm @MCS0， ＜-63±1.5dBm @MCS11 5G: 11a：＜-94±1.5dBm @6Mbps， ＜-78±1.5dBm @54Mbps 11n 20MHz：＜-94±1.5dBm@MCS0， ＜-74±1.5dBm @MCS7 11n 40MHz：＜-90±1.5dBm @MCS0， ＜-72±1.5dBm @MCS7 11ac 20MHz：＜-94±1.5dBm @MCS0， ＜-72±1.5dBm @MCS8 11ac 40MHz：＜-90±1.5dBm @MCS0， ＜-66±1.5dBm @MCS9 11ac 80MHz：＜-88±1.5dBm @MCS0， ＜-62±1.5dBm @MCS9 11ax 20MHz：＜-94±1.5dBm @MCS0， ＜-64±1.5dBm @MCS11 11ax 40MHz：＜-92±1.5dBm @MCS0， ＜-60±1.5dBm @MCS11 11ax 80MHz：＜-88±1.5dBm @MCS0， ＜-58±1.5dBm @MCS11 11ax 160MHz：＜-84±1.5dBm @MCS0， ＜-56±1.5dBm @MCS11
Transmit Power	11b: 20dBm±1.5dBm@11Mbps 11g: 20dBm±1.5dBm@54Mbps 11n(20/40MHz): 20dBm±1.5dBm@MCS7 11ac(40/80MHz): 20dBm±1.5dBm@MCS9 11ax(20/40/80/160MHz) : 20dBm±1.5dBm@MCS11

Software Functions	
Working Mode	Routing mode/Bridge mode
Number of connected users	128 Peoples
Management mode	English web remote management/support for TR069 remote management
Status	Internet\Router\WiFi\Primary Network User\

	Guest User\DHCP List
Network	Ethernet：Network (Routing\Bridge) \ Ethernet Setting (Dynamic IP\Static IP\PPPoE)\ Ethernet Status LAN Setup: Lan: IP Address\Subnet Mask\DHCP setting\DNS\ Lease time Guest Network Address Pool
Wireless	-WiFi: Dual frequency in one\2.4G&5G WPS switch\ 2.4G&5G: Status switch\Hide SSID\SSID\Security\ Encryption Mode\Password\ Advanced Settings: Protocol\Channel Bandwidth\ Channel\Tx power -Black and White List: Switch\ Mode switch (Blacklist\Whitelist) \Blacklist -WPS: 2.4G&5G Switch\PBC -Mesh: Switch\Role (Automatic\Main route\Satellite) \ Add satellite\Fast roaming\ 2.4G&5G Set signal strength threshold -Relay mode: Switch\Frequency band\SSID(Scan)\ Security\Password\Status -Advanced Configuration: Band Streering\WLAN QOS\ WiFi5 Compatibility mode\WiFi timed reboot
Network Advanced	IPV6\DDNS\IPTV\Guest Network\Parental Control\ VPN Client(PPTP\L2TP)\Hardware HNAT
Features	ALG\Port Forwarding\DMZ Settings\MAC Filtering\ IP Filtering\DDOS\URL Control
Management	SNTP\Change User Info\Backup & Upgrade\ Restart & Reset\LED Switch\Flow Control\System Log
Setup Wizard	WiFi-Network Configuration-Summary
Mesh Topo	Overall network device topology(IP\MAC\Medium)

What’s in the box