

HSGQ-R3000



Product Description

HSGQ-R3000 uses the next generation 11ax technology, wireless speed up to 3000Mbps, support MU-MIMO; The 2.4GHz band transmits far, easily penetrates the wall, and has wide Wi-Fi signal coverage. The 5GHz band has less interference and smooth channels. Improve the efficiency of multi-user concurrent scenarios and easily cope with high-density access scenarios.

Hardware Specifications

Core Parameters	CPU	MT7981BA(ARM Dual-core A53@1.3GHz)+MT7976CN
	Flash/Memory	NAND 128MB+256MB DDR3
	Antenna	2.4G: 5dBi×3 5.8G: 5dBi×3
	Interface	1×10/100/1000Mbps RJ45 WAN 3×10/100/1000Mbps RJ45 LAN
	Buttons	RESET, WPS/MESH
	Power Supply	DC 12V 1A
	LED Indicator	LED×1(three colors, red, green, blue)
Standards	IEEE 802.11ax/ac/n/a 5 GHz	
	IEEE 802.11ax/n/b/g 2.4 GHz	
	Operating Frequency	2.4~2.4835GHz, 5.150GHz ~ 5.850GHz
	Data Rate	Up to 3000Mbps
Channel	2.4G: 1~13	
	5.8G: 36,40,44,48,52,56,60,64,149,153,157,161,165	
Modulations	802.11a: OFDM (BPSK,QPSK,16-QAM,64-QAM)	
	802.11b: DSSS (DQPSK, DBPSK, CCK)	
	802.11g: OFDM (BPSK, QPSK,16-QAM, 64-QAM)	
	802.11n: OFDM (BPSK, QPSK,16-QAM, 64-QAM)	
	802.11ac: OFDM (BPSK, QPSK,16-QAM, 64-QAM, 256-QAM)	
Encryption	802.11ax: OFDM (BPSK, QPSK,16-QAM, 64-QAM, 256-QAM,1024-QAM)	
	WPA-PSK/WPA2-PSK, WPA3-SAE, WPA3-SAE/WPA2-PSK2	
Wireless Features	2.4G	11b(CCK): 22dBm±2dBm@11Mbps
		11g(OFDM): 22dBm±2dBm@6Mbps; 19dBm±2dBm@54Mbps
		11n(HT40): 22dBm±2dBm@MCS0; 19dBm±2dBm@MCS7
		11AX(HE40): 22dBm±2dBm@MCS0; 17dBm±2dBm@MCS11
		11a(BW20): 22dBm±2dBm@6Mbps; 19dBm±2dBm@54Mbps
	5.8G	11a(HT40): 22dBm±2dBm@6Mbps; 19dBm±2dBm@54Mbps
		11ac(VHT80): 22dBm±2dBm@MCS0; 18dBm±2dBm@MCS9
		11ac(VHT160): 22dBm±2dBm@MCS0; 18dBm±2dBm@MCS9
		11AX(HE80): 22dBm±2dBm@MCS0; 17dBm±2dBm@MCS11
		11AX(HE160): 22dBm±2dBm@MCS0; 16.5dBm±2dBm@MCS11
	2.4G	11g: <-95dbm@ 6Mbps;<-77dbm@ 54Mbps
		11n (HT40): ≤ -96dBm@MCS0,≤ -65dBm@MCS11
11ac (VHT40): ≤ -96dBm@MCS0,≤ -65dBm@MCS11		
11ax (HE40): ≤ -96dBm@MCS0,≤ -65dBm@MCS11		
11a (BW20): ≤ -94dBm@6Mbps; ≤ -77dBm@54Mbps		
11ac (VHT80): ≤ -88dBm@MCS0; ≤ -64dBm@MCS9		
11ac (VHT160): ≤ -85dBm@MCS0; ≤ -60dBm@MCS9		
5.8G	11ax: (HE80)≤ -88dBm@MCS0; ≤ -57dBm@MCS11	
	11AX(HE160):≤ -85dBm@MCS0; ≤ -54dBm@MCS11	

Hardware Specifications

Setup Wizard	Quickly configure router access mode and wireless parameters	
Status	Router	Display CPU and memory utilization, software version, system running time
	WiFi	Display wifi ssid, wireless protocol, bandwidth, channel
	Online Users	List of main network users List of guest users
Network	WAN	Type of Connection: Dynamic IP, PPPoE, Static IP DNS: Dynamic, Manual Status: Type of connection, Status of connection
	LAN	Setting IP address DHCP
	ALG	Enable FTP, RSTP, SIP, PPTP Pass Through, L2TP Pass Through, IPSEC Pass Through
Security	Port Mapping	DHCP Setting
	DMZ	Enter the IP address of the internal computer that you want to designate as the DMZ host Apply
	MAC Filter	The blacklist denies the selected MAC address from connecting to the network
	IP Filter	Set the site to disable user access according IP
Wireless	DDOS	Enable the network attack prevention function.
	WiFi Setting	Enable, SSID, Password, Protocol, Bandwidth, Channel, Hide
	White-Black list	Add, delete and Remove the white-black list
MESH	WPS	Enable/Disable
	Mesh	Easy mesh
	IPV6	Type of Connection: Dynamic IP, PPPoE, Static IP, Repeater Mode
Advanced Network Settings	IPTV	Enable/Disable, VLAN ID
	Parental Control	Display the time period when the terminal's MAC address is used to access the external network. You can configure the switch, device name, MAC address, access time, description, status, etc.
	VPN Clients	PPTP VPN L2TP VPN
	SNTP	Enable auto-sync with network time
	Password	Change the password of web
Management	Bankup& Update	Download the backed up configuration and upload the backed up configuration
	Reboot&Reset	Includes immediate restart and scheduled restart
	Syslog	The log of system operating

Key Feature

- Dual frequency 3000Mbps, WiFi6+, HE160MHz, Meet the demand for
- Dual-core ARM architecture CPU with 256MB large memory, faster
- External 6 antennas, precision layout, wider coverage, longer transmission distance
- WAN, LAN port full gigabit, support gigabit fiber broadband access, IPTV access
- Support Mesh, 360° network full coverage without dead corners
- Support IPV6 large capacity, high efficiency, and greater security
- Support guest network and device management functions, easily control your network
- Supports multiple security mechanisms such as blacklist, MAC address filtering, IP address filtering, SSID hiding/encryption, and layer upon layer protection

Ordering Information

Product Model	Description
HSGQ-R3000	1×GE WAN
	3×GE LAN
	2.4GHz: 300Mbps
	5.8GHz: 866Mbps

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