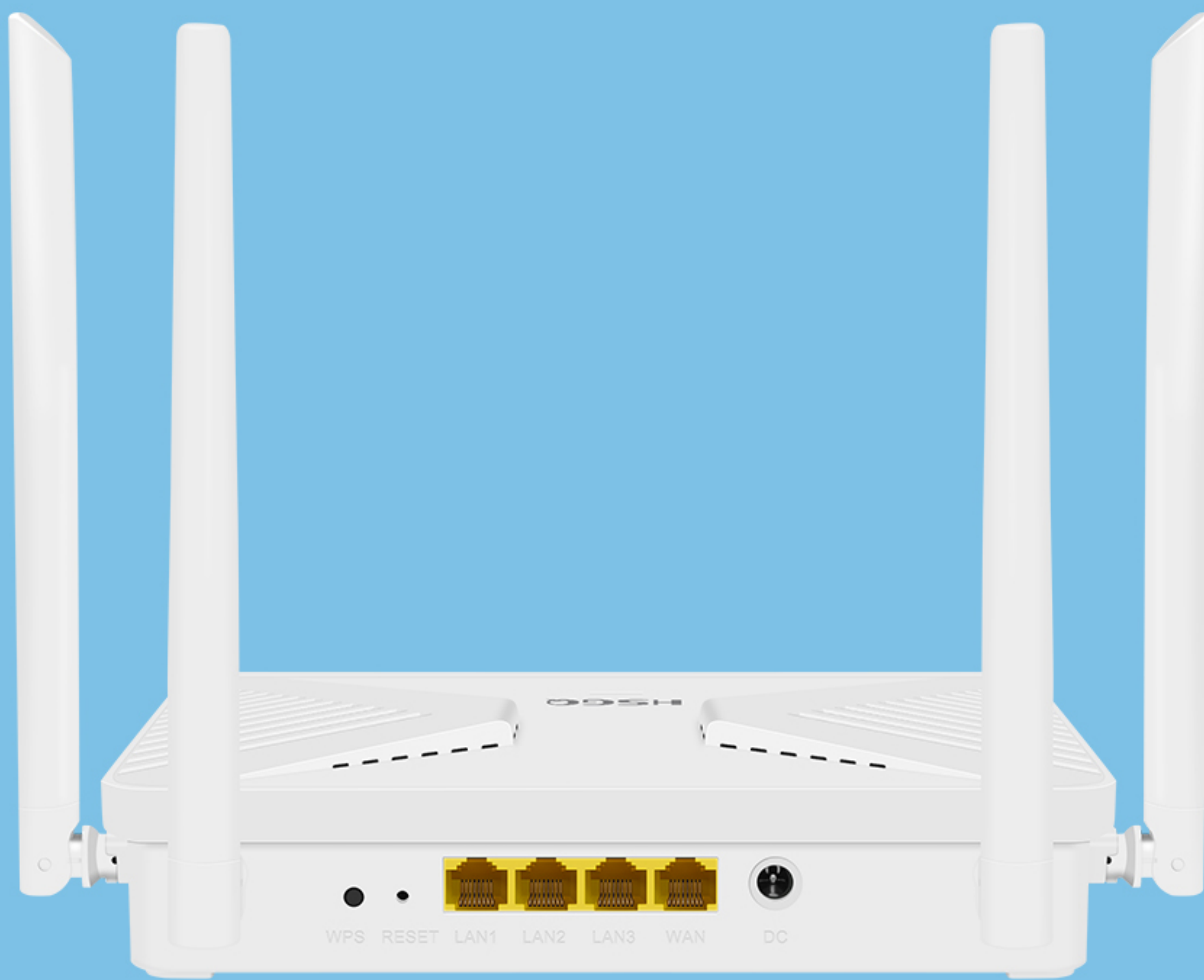# HSGQ-R3000

Product Overview

HSGQ-R3000 as the sixth generation of wireless technology pioneer, its fast speed, low latency, high capacity, more secure, more power-saving features, wireless 2.4G rate of 600 Mbps, 5G rate of up to 2400Mbps, dual-band wireless concurrent rate is up to 3000Mbps. compared to the previous generation of WIFI-5 standard, the connection rate and total network capacity are huge. In today's high-density, highly congested network environment, in the game, education, live streaming lower latency, more smooth experience, more adaptable to a large number of smart home devices access, can fully meet the current multi-room, duplex and other large homes, small multi-office wireless coverage, so that users really get rid of wired constraints, in any corner to enjoy the ultimate experience of wireless networking, but also compatible with all mainstream smart phones It is also compatible with all mainstream smartphones, tablets, PCs and other digital products, making networking smoother and more stable.

Product Highlights

- Support 802.11ax protocol, wireless rate support up to 3.0Gpbs
- Easy configuration by mobile app, manage anywhere, anytime
- Support 2.4G and 5G dual-band in one
- 128MB memory to reduce congestion and allow more devices to connect to the network, up to 128 devices can be connected simultaneously
- Support WIFI6 feature 1: high speed, 1024-QAM modulation technology, multi-user-multi-input-multi-output technology (MU-MIMO) technology, adaptive idle channel evaluation
- Support for WiFi6 Feature 2: Low Latency, using technologies such as OFDMA and SpatialReuse, Wi-Fi 6 enables multiple users to transmit simultaneously and in parallel in each time slot without having to wait in line, reducing mutual competition, improving efficiency and reducing latency. Reduced from 30ms in Wi-Fi 5 to 20ms
- 4 antenna Beam-forming (Beam-forming) technology to weight the transmitted signal, enhancing Wi-Fi signal quality and extending Wi-Fi coverage
- Support device management
- Support device display, log, terminal list, traffic statistics, network status display
- Support IPV6

WiFi6 AX3000

- 574Mbps at 2.4GHz+2402Mbps at 5GHz
- Full IEEE802.11a/b/g/n/ac/ax legacy compatibility with enhanced performance
- Support multi-SSID (Maximum 4 SSID)
- Support automatic channel selection
- Support hide SSID
- Support wireless security of 64/128 bit WEP, 802.1x, WPA and WPA2

Specifications

Hardware Features

Protocol Standard	IEEE 802.11n, IEEE 802.11g, IEEE 802.11b, IEEE 802.11a, IEEE 802.11ac, IEEE 802.11ax, IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab
FLASH	SPI NAND Flash 128MB
RAM	TR6560 built-in 128MB
Interface	1*WAN+3*LAN * 10/100/1000Mbps interface
Button	1*WPS/MESH, 1*Reset (long press 10s),
LED	POWER, Internet, 2.4G WLAN, 5G WLAN, LAN, WPS
Antenna	Four external omni-directional 5dbi gain non-detachable single-band antennas
Power Supply	12V/1A

Specifications

WiFi Feature

Basic Function	Wireless Enable/Disable
	SSID Broadcast Enable/Disable
	Channel Selection: 1 -14 (2.4G)
	36 -165 (5GHz)
	Bandwidth: 20MHz, 40MHz, 80MHz,160MHz
2.4G Frequency	2.412--2.4835GHz
5G Frequency	5.180~5.320GHz
	5.500~5.700GHz
	5.745~5.825GHz
Wireless Transmission Speed	IEEE 802.11b: 1, 2, 5.5，11 Mbps
	IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
	IEEE 802.11n: 150，300Mbps (typical)
	IEEE 802.11AC: 866Mbps (typical)
	IEEE 802.11AX: 2402Mbps (typical)
Power	2.4G 11ax（20M~40M）MCS0：22dBm±2dBm
	2.4G 11ax（20M~40M）MCS11：17dBm±2dBm
	5.8G 11 ac/ax（20M~160M）MCS0：23.5dBm±1.5dBm
	5.8G 11 ac/ax（160M）MCS8/9：18dBm±2dBm
	5.8G 11 ac/ax（160M）MCS11：16dBm±2dBm
Working Mode	Router Mode, Repeater Mode
Wireless Security	MAC Address Filter
	WPA-PSK/WPA2-PSK、WPA/WPA2/WPA3
	WPS（PBC）
Other Features	None

Others

Packing list	AX3000 Wireless Router
	1.2 Meter Cat5e network cable
Power Input	12V/1A BR/CH/US/CE
Size	187.35mm*104.46mm*30.8mm
Working Environment	Operating temperature: 0℃ to 40℃
	Storage temperature: -20℃ to 70℃
	Operating humidity: 10% to 90% RH without condensation
	Storage humidity: 5% to 90% RH without condensation

Packing List

Product Model	Quantity
Router	1pc
Power Adapter	1pc
Instructions/Certificate	1pc

For more information, please visit: http://www.hsgq.com