

# RG-EW6000GX

## AX6000 Wi-Fi 6 Mesh Router with 2.5G Port



### Highlights


- Ultra-high-speed with Wi-Fi 6 standard (160MHz)
- Quad-core enterprise level chipset
- Max clients up to 384
- Gaming port
- Strong signals received
- Cloud-based Management


# Highlight Features


Full-Power **Wi-Fi 6**


## RG-EW6000GX Steady as Dune, Fast as Wind

RG-EW6000GX with **160 MHz** Channel Bandwidth & **6000 Mbps** Network Speed. Unleash Full-Power Wi-Fi 6 for Accelerated Digital Life.

 2.5 Gbps Port

 Enterprise-Level Quad-Core Chipset

 8 x Antennas

 Gaming Mode



## Select Your Networking with 1 x 2.5 Gbps WAN/LAN Port & 1 x 1 Gbps WAN/LAN Port & 3 x 1 Gbps LAN Ports

### Dual-WAN Aggregation

In dual-WAN aggregation, two Internet connections can achieve a bandwidth exceeding 1.6 Gbps, optimizing network traffic distribution across two ISPs.

Dual-LAN Aggregation

Gaming Port



# Highlight Features

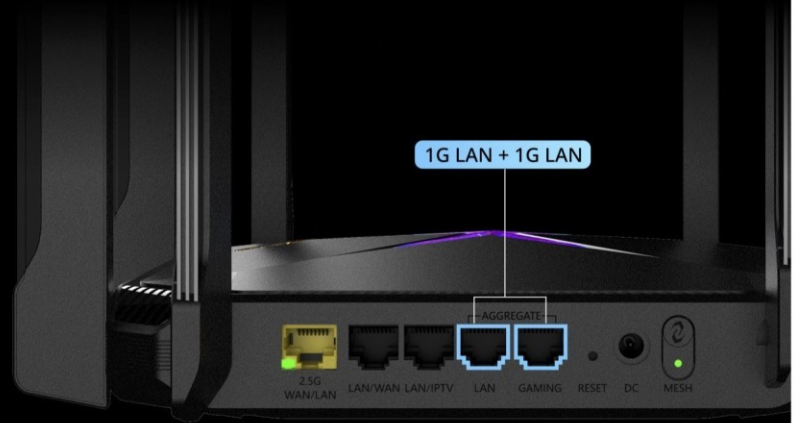
Select Your Networking with 1 x 2.5 Gbps WAN/LAN Port & 1 x 1 Gbps WAN/LAN Port & 3 x 1 Gbps LAN Ports

Dual-WAN Aggregation

Dual-LAN Aggregation

Dual-LAN aggregation allows wired devices to achieve speeds exceeding 1.6 Gbps, significantly supporting high-speed LAN transmission. The RG-EW6000GX is a good helper for vloggers, video creators, video studios.

Gaming Port



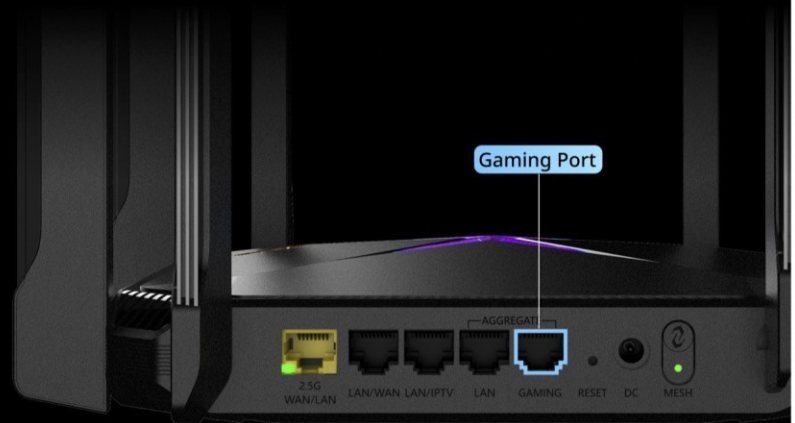
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Dual-WAN Aggregation

Dual-LAN Aggregation

Gaming Port

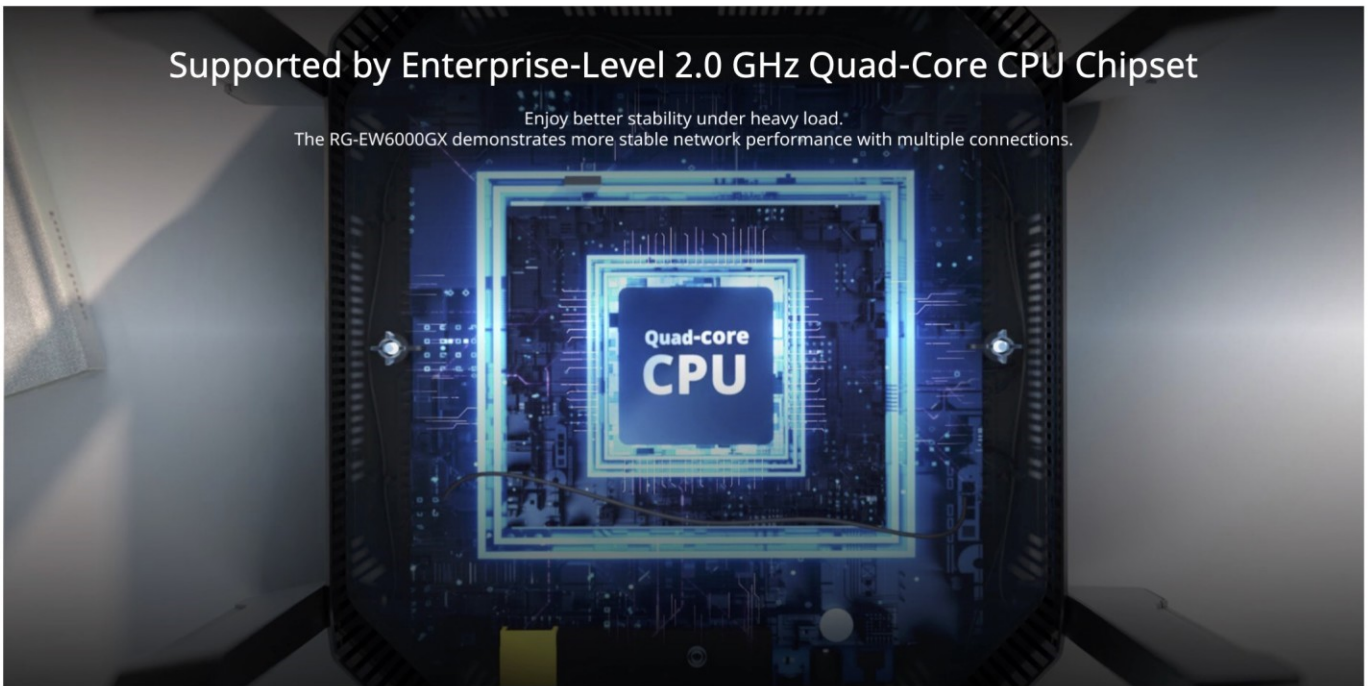
Enable Game Turbo by connecting your computer to the gaming port—prioritizing gaming and critical apps for smooth POS, conferencing, and live streaming. Discover even more features!



## Highlight Features

### Supported by Enterprise-Level 2.0 GHz Quad-Core CPU Chipset

Enjoy better stability under heavy load.  
The RG-EW6000GX demonstrates more stable network performance with multiple connections.



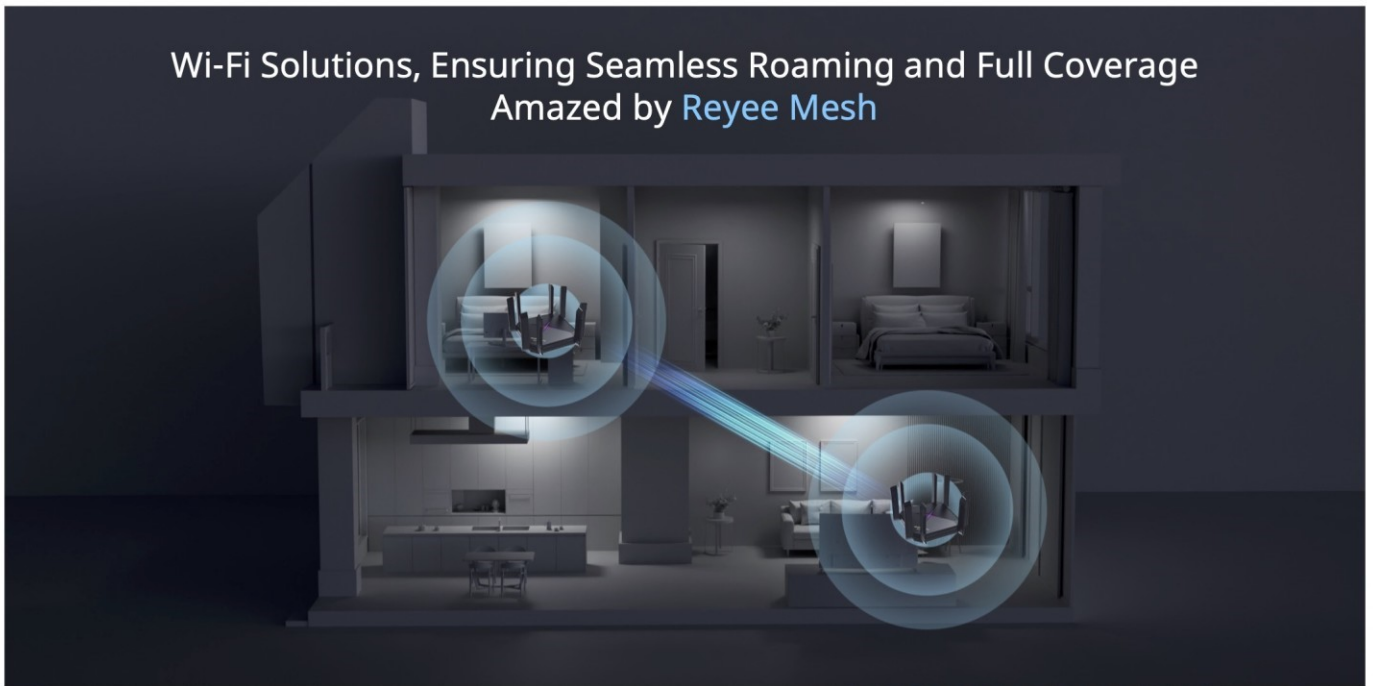
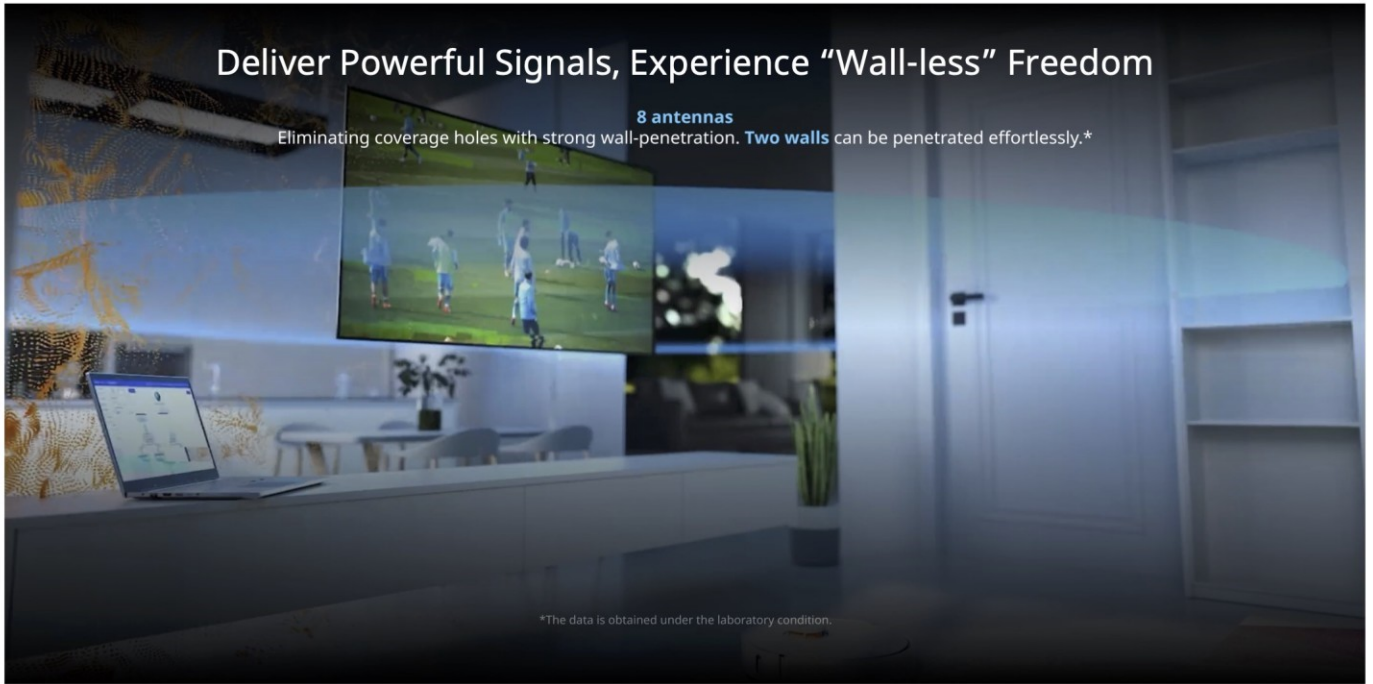
### Support for Concurrent Connections of Multiple Clients

With MU-MIMO technology, the EW6000GX features **8 spatial streams** (2.4 GHz: 4x4, 5 GHz: 4x4), doubles device capacity, and allows for fast and simultaneous connections of different clients without delays.

Up to **384** Clients



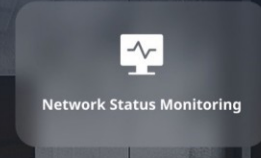
# Highlight Features



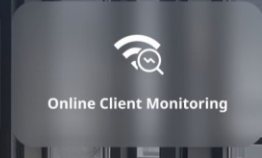
# Highlight Features

## Manage Your Home Network at Fingertips

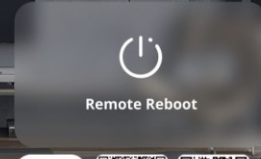
Ruijie Reyeer App provides incredible advanced features, allowing you to remotely manage your network at any time.



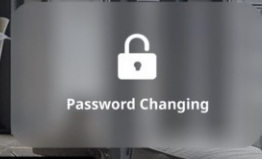
Network Status Monitoring



Online Client Monitoring



Remote Reboot



Password Changing



# Hardware Specifications

Model	RG-EW6000GX
<b>Wi-Fi Radio</b>	
<b>Operating band</b>	IEEE 802.11b/g/n/ax, 2.400GHz~2.4835GHz; IEEE 802.11a/n/ac/ax, 5.150GHz~5.350GHz; IEEE 802.11a/n/ac/ax, 5.470GHz~5.725GHz; IEEE 802.11a/n/ac/ax, 5.725GHz~5.850GHz;
<b>FEM</b>	iPA
<b>Max. Wi-Fi Speed</b>	2.4 GHz, 1147 Mbps 5 GHz, 4804 Mbps
<b>Maximum transmit power</b>	2.4 GHz: 802.11b: 23 dBm 802.11g: 6 Mbps 23 dBm; 54 Mbps 20 dBm 802.11n: MCS0 23 dBm; MCS7 19 dBm 802.11ac: MCS0 23 dBm; MCS7 19 dBm; MCS8 18.5 dBm; MCS9 18.5 dBm 802.11ax: MCS0 23 dBm; MCS7 19 dBm; MCS11 16.5 dBm 5 GHz: 802.11a: 6 Mbps 23 dBm; 54 Mbps 19 dBm 802.11n: MCS0 23 dBm; MCS7 19 dBm 802.11ac: MCS0 23 dBm; MCS9 17 dBm (20 Mbps/40 Mbps/80 Mbps) 802.11ax: MCS0 23 dBm; MCS9 17dBm (20 Mbps/40 Mbps/80

# Hardware Specifications

Model	RG-EW6000GX
	<p>Mbps); MCS9 16 dBm (160 Mbps); MCS11 16 dBm (20 Mbps/40 Mbps/80 Mbps); MCS11 15 dBm (160 Mbps)</p> <p>Note: The transmit power varies according to regulations in different countries and regions.</p>
<b>Maximum transmit power(EIRP)</b>	<p>Frequency bands using and the max EIRP:</p> <p>Note: Country specific restrictions apply</p> <p>European Union &amp; United Kingdom:</p> <p>2400-2483.5 MHz, EIRP ≤ 20 dBm</p> <p>5150-5350 MHz, EIRP ≤ 23 dBm</p> <p>5470-5725 MHz, EIRP ≤ 30 dBm</p> <p>Myanmar:</p> <p>2400-2483.5 MHz, EIRP ≤ 23 dBm</p> <p>5725-5825 MHz, EIRP ≤ 30 dBm</p> <p>Thailand:</p> <p>2400-2483.5 MHz, EIRP ≤ 20 dBm</p> <p>5150-5350 MHz, EIRP ≤ 23 dBm</p> <p>5470-5725 MHz, EIRP ≤ 30 dBm</p> <p>5725-5825 MHz, EIRP ≤ 30 dBm</p> <p>Indonesia:</p> <p>2400-2483.5 MHz, EIRP ≤ 27 dBm</p> <p>5150-5350 MHz, EIRP ≤ 23 dBm</p>

# Hardware Specifications

Model	RG-EW6000GX
	<p>5725-5825 MHz, EIRP ≤ 23 dBm</p> <p>Egypt:</p> <p>2400-2483.5 MHz, EIRP ≤ 20 dBm</p> <p>5150-5350 MHz, EIRP ≤ 23 dBm</p> <p>Vietnam:</p> <p>2400-2483.5 MHz, EIRP ≤ 23 dBm</p> <p>5150-5350 MHz, EIRP ≤ 23 dBm</p> <p>5470-5725 MHz, EIRP ≤ 30 dBm</p> <p>5725-5825 MHz, EIRP ≤ 30 dBm</p>
MIMO	<p>2.4 GHz, 4 x 4</p> <p>5 GHz, 4 x 4</p>
Wi-Fi standard	Wi-Fi 6 (IEEE 802.11ax)
<b>Antenna</b>	
Antenna	8 x external antennas
Antenna gain (2.4 GHz)	4.5 dBi
Antenna gain (5 GHz)	5.5 dBi
<b>Certification and Regulatory Compliance</b>	
Certification	CE, CB
<b>Dimensions and Weight</b>	
Product dimensions (W x D x H)	<p>200 mm x 200 mm x 43.8 mm (7.87 in. x 7.87 in. x 1.72 in.)</p> <p>(excluding antennas)</p>

# Hardware Specifications

Model	RG-EW6000GX
Weight	0.95 kg (2.09 lbs) (without packaging materials)
	1.68 kg (3.7 lbs) (with packaging materials)
<b>Environment and Reliability</b>	
Operating humidity	5% RH to 95% RH (non-condensing)
Operating temperature	0 °C to +40 °C (32 °F to 104 °F)
Storage humidity	5% RH to 95% RH (non-condensing)
Storage temperature	-40 °C to +70 °C (-40 °F to 158 °F)
<b>Port Specifications</b>	
LEDs	4 x system status LEDs
	1 x Mesh LED
LAN ports	4 x 10/100/1000BASE-T ports
Number of LAN/WAN ports	1 x 10/100/1000BASE-T port
	1 x 10/100/1000/2500BASE-T port
WAN ports	1 x 10/100/1000/2500BASE-T port
<b>Power Supply and Consumption</b>	
Power supply	DC 12 V 2.5 A
<b>Product Information</b>	
Warranty	3 years
<b>System Specifications</b>	
RAM	512 MB

# Software Specifications

Model	RG-EW6000GX
<b>Basic Configurations</b>	
LED management	Yes
Internet access mode	PPPoE, DHCP, Static IP, L2TP, WISP
Preconfiguration	Yes
Reset and keep configurations	Yes
Restoring factory defaults	Yes
Configuration backup	Yes
Local upgrade	Yes
Online upgrade	Yes
Scheduled upgrade	No
AP mode	Yes
<b>Ethernet Switching</b>	
WAN port aggregation	Yes
LAN port aggregation	Yes
Specifying the VLAN tag	Yes
<b>IP Service</b>	
Port mapping	Yes
ARP binding	Yes
Number of ARP binding entries	64
DDNS	Yes
No-IP DNS	Yes

# Software Specifications

Model	RG-EW6000GX
Ruijie DDNS	Yes
NAT-DMZ	Yes
Number of port mapping entries	50
UPnP	Yes
IPv6	Yes
<b>Behavior Management</b>	
Parental control	Yes
Client access control (based on MAC addresses)	Yes
Client access control (based on time)	Yes
Maximum number of controlled clients	32
Maximum number of parental control policies	32
Selecting clients from the client list to block their access to the Internet	Yes
Specifying MAC addresses of controlled clients	Yes
<b>Ethernet Interface</b>	
MAC address cloning	Yes
VLAN-based IPTV	Yes

# Software Specifications

Model	RG-EW6000GX
<b>Flow Control</b>	
Flow control based on number of users	Yes
Standalone/Shared mode	Yes
Interface flow control	Yes
<b>IPTV/VLAN</b>	
Multiple IPTV ports	Yes
<b>Multicast</b>	
IGMP proxy	Yes
IGMP snooping	Yes
	Note: Not supported by wired connections when IPTV is turned on
<b>Network Management and Monitoring</b>	
Line detection	Yes
Arabic	Yes
Chinese (Hong Kong Traditional)	Yes
Chinese (Simplified)	Yes
English	Yes
Indonesian	Yes
Italian	Yes
Russian	Yes
Spanish (Latin America)	Yes

# Software Specifications

Model	RG-EW6000GX
Thai	Yes
Turkish	Yes
Vietnamese	Yes
Ruijie Cloud management	Yes
Scheduled device restart	Yes
eWeb login password length	8 to 63 characters
Wired repeater mode	Yes
Wireless repeater mode	Yes
WISP mode	Yes
<b>Rate Limiting</b>	
Client-based rate limiting	Yes
<b>Reyee Mesh 3.0</b>	
Reyee Mesh 3.0	Yes
Automatic switching between wired and wireless repeater mode	Yes
Recommended hop count	2
Maximum number of clients	192
Maximum number of devices	32
<b>Security</b>	
Encryption mode	Yes
<b>System Performance Capacity</b>	

# Software Specifications

Model	RG-EW6000GX
Maximum number of concurrent clients	128 (2.4 GHz)
	256 (5 GHz)
Recommended number of concurrent clients	16 (2.4 GHz)
	64 (5 GHz)
IPTV/IGMP client capacity	5
IPTV/IGMP multicast capacity	5
IPTV/IGMP wired forwarding performance	25 Mbps
Recommended camera limit	6 (2.4 GHz)
	16 (5 GHz)
VPN	
Number of concurrent tunnels supported by the OpenVPN server	8
Certificate authentication	Yes
OpenVPN bandwidth	13 Mbps
OpenVPN client	Yes
OpenVPN server	Yes
Server domain name configuration	Yes
Username and password authentication	Yes

# Software Specifications

Model	RG-EW6000GX
Number of concurrent tunnels supported by the PPTP VPN server	30
PPTP VPN client	Yes
PPTP VPN server	Yes
<b>Wireless Configuration</b>	
Guest Wi-Fi	Yes
<b>WLAN</b>	
1024-QAM	Yes
OFDMA	Yes (DL OFDMA)
MLO	No
DFS	Yes
802.11k/v roaming	Yes
Wi-Fi blocklist capacity	64
SSID hiding	Yes

# Package Contents

<b>Model</b>	<b>RG-EW6000GX</b>
<b>Accessories</b>	
<b>Ethernet cable</b>	1
<b>Power adapter</b>	1
<b>Device</b>	
<b>Device</b>	1
<b>Manual</b>	
<b>User Manual</b>	1
<b>Warranty Card</b>	1

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**Ruijie Networks Co., Ltd.**

Official Website: <https://Reyee.Ruijie.com>