

# RG-EW6000GX

## 6000M Wi-Fi 6 Dual-band Gigabit Router with 2.5GE Port

DATASHEET

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### Highlights

- 1 x 2.5 Gbps WAN/LAN Port & 1 x 1 Gbps WAN/LAN Port & 3 x 1 Gbps LAN Ports
- 2 GHz Quad-Core Enterprise-level Chipset
- 384 concurrent connections
- Dual-WAN aggregation & Dual-LAN aggregation
- Exclusive Reyee Mesh feature
- Ruijie Reyee App, manage your home network at your fingertips

## 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

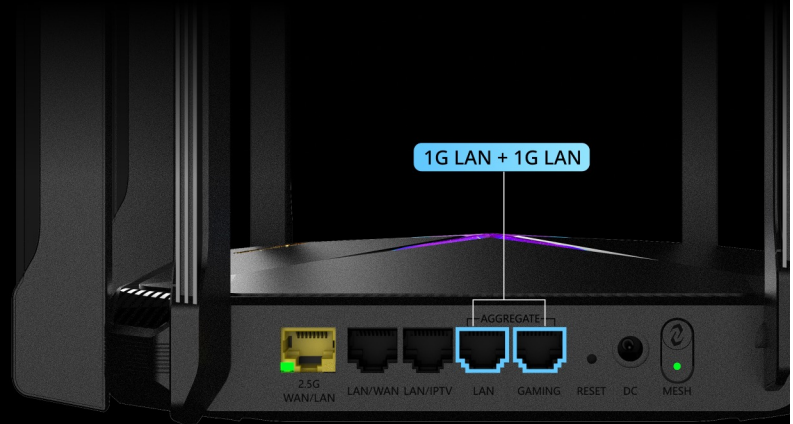
Select Your Networking with 1 x 2.5 Gbps WAN/LAN Port & 1 x 1 Gbps WAN/LAN Port & 3 x 1 Gbps LAN Ports

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



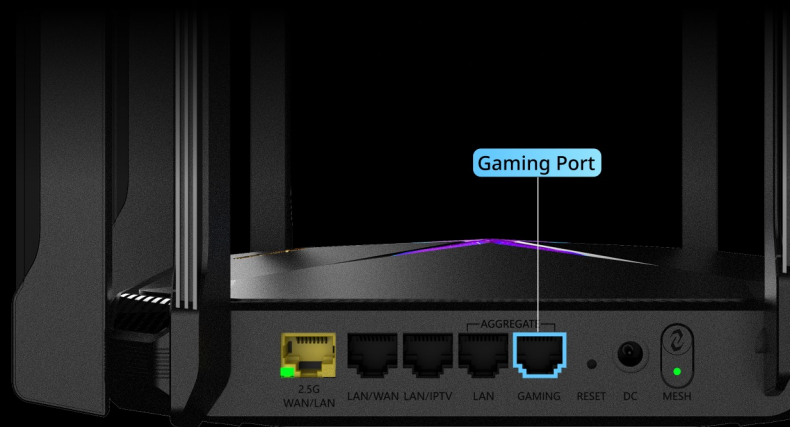
Select Your Networking with 1 x 2.5 Gbps WAN/LAN Port & 1 x 1 Gbps WAN/LAN Port & 3 x 1 Gbps LAN Ports

Dual-WAN Aggregation

Dual-LAN Aggregation

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!

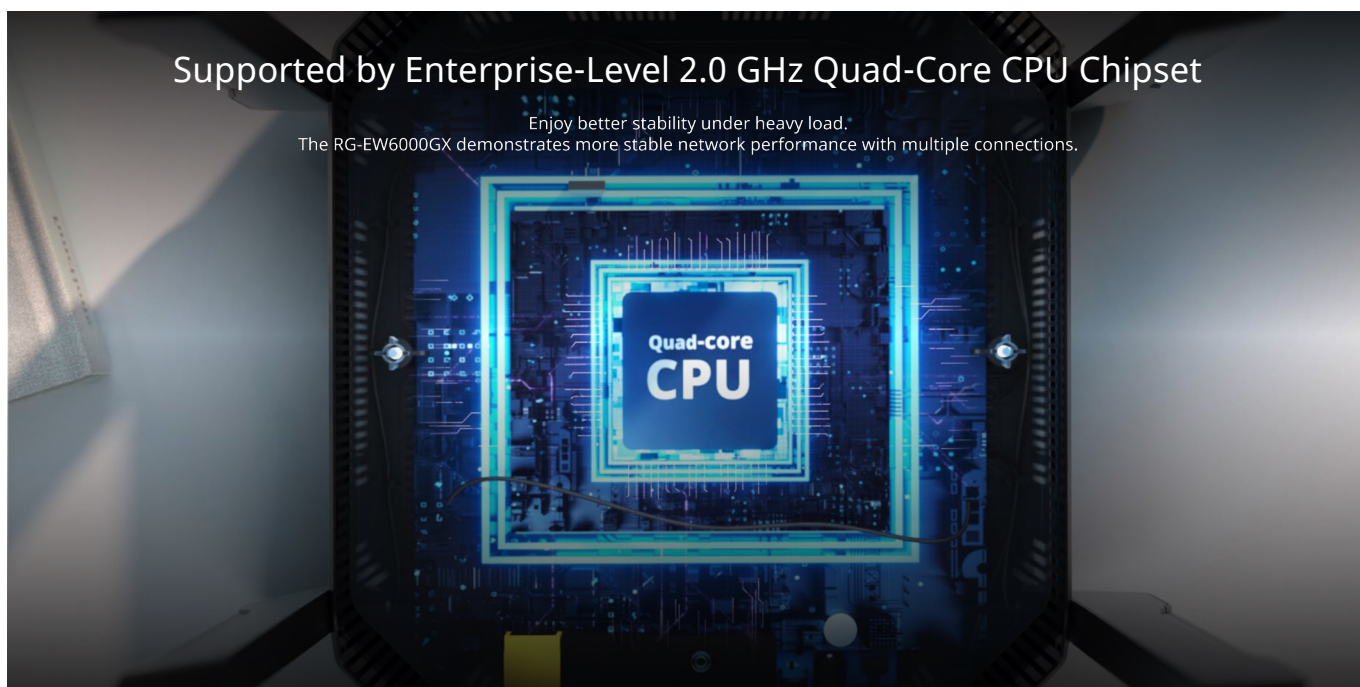




## / Highlight Features

### 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

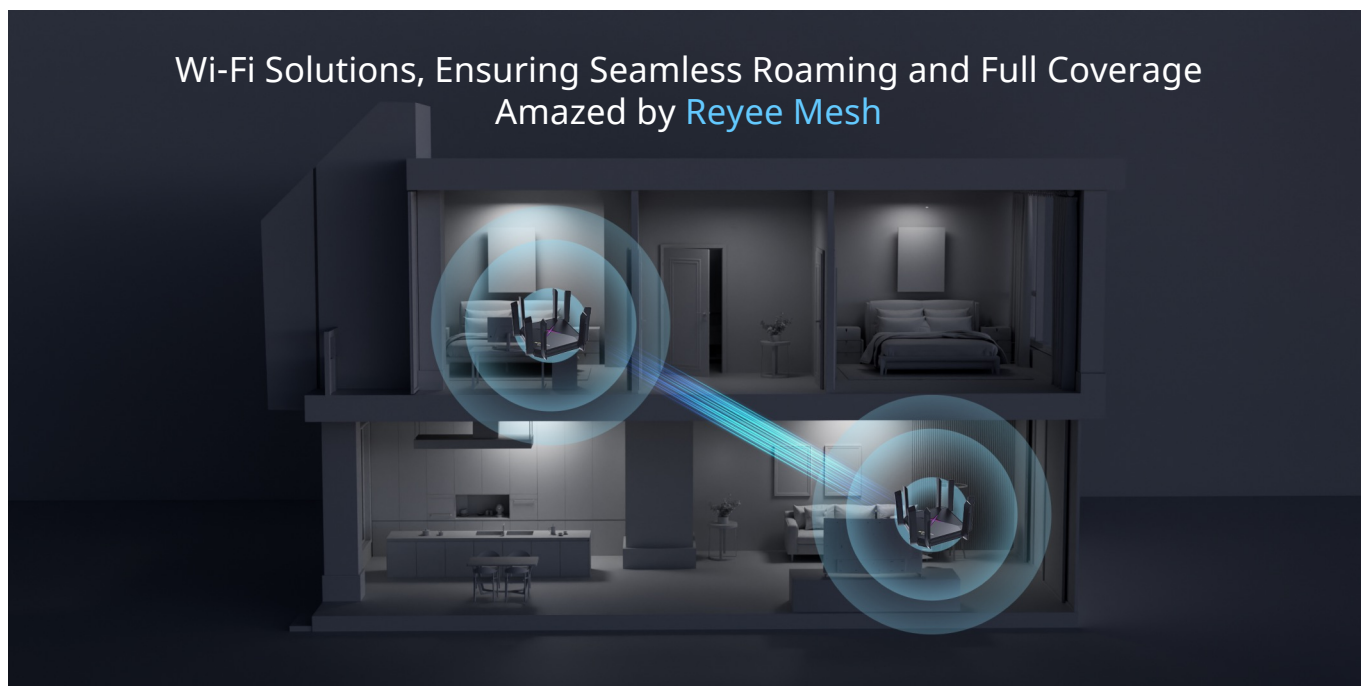
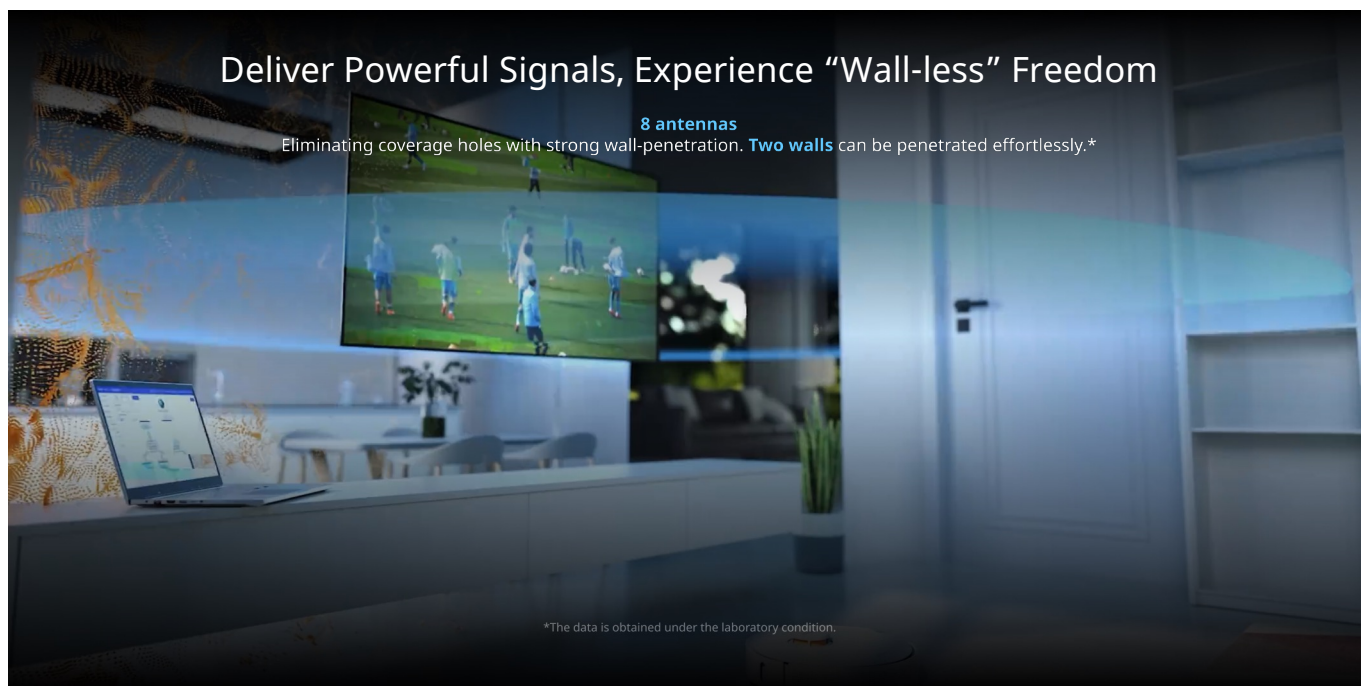
With **MU-MIMO** technology, the EW6000GX features **8 spatial streams** (2.4 GHz: 4x4, 5 GHz: 4x4), doubles device capacity, and allows for fast and simultaneous connections of different clients without delays.

Up to **384** Clients





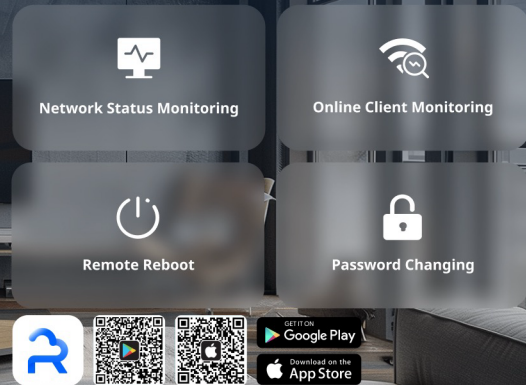
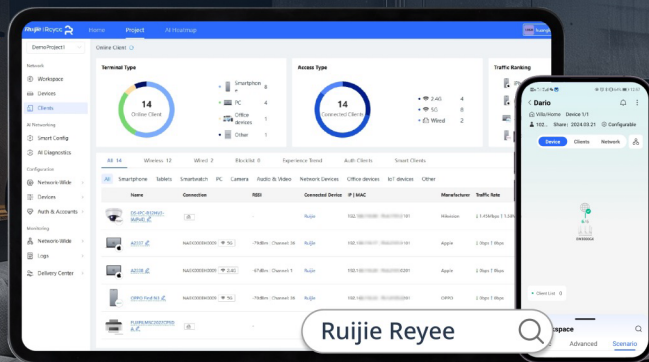
## Highlight Features



# 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.



# Specifications

Model	RG-EW6000GX
Basic	
Wi-Fi standard	Wi-Fi 6 (IEEE 802.11ax) standard, compatible with IEEE 802.11a/b/g/n/ac standards
Max. Wi-Fi Speed	2.4 GHz, 1147 Mbps 5 GHz, 4804 Mbps
FEM	iPA
Antenna	8 x external antennas
Antenna gain (2.4 GHz)	5.85 dBi
Antenna gain (5 GHz)	5.66 dBi
LAN ports	4x 10/100/1000BASE-T ports
WAN ports	1x 10/100/1000/2500BASE-T port
Ruijie Cloud management	Yes
Software Specifications	
Maximum number of concurrent clients	128 (2.4 GHz) 256 (5 GHz)
Recommended number of concurrent clients	16 (2.4 GHz) 64 (5 GHz)
Recommended camera limit	6 (2.4 GHz) 16 (5 GHz)"
1024-QAM	Yes
802.11k/v roaming	Yes
SSID hiding	Yes
DFS	Yes
Guest Wi-Fi	Yes



Model	RG-EW6000GX
Encryption mode	WPA-PSK, WPA2-PSK, WPA/WPA2-PSK, WPA3-SAE, WPA2-PSK/WPA3-SAE
Wi-Fi blocklist capacity	64
Working mode	Wired repeater mode Wireless repeater mode WISP mode AP mode
Internet access mode	PPPoE, DHCP, Static IP, L2TP, WISP
eWeb login password length	8 to 63 characters
Line detection	Yes
Configuration backup	Yes
Restoring factory defaults	Yes
Reset and keep configurations	Yes
Network-wide LED management	Yes
Scheduled device restart	Yes
MAC address cloning	Yes
Specifying the VLAN tag	Yes
Local upgrade	Yes
Online upgrade	Yes
ARP binding	Yes
Number of ARP binding entries	64
Client-based rate limiting	Yes
Parental control	Yes
NAT	50
NAT-DMZ	Yes
UPnP	Yes

Model	RG-EW6000GX
No-IP DNS	Yes
DDNS	Yes
Ruijie DDNS	Yes
Multiple IPTV ports	Yes
IPTV	Yes
IGMP proxy	Yes
IGMP snooping	Yes Note: Not supported by wired connections when IPTV is turned on
IPTV/IGMP multicast capacity	5
IPTV/IGMP client capacity	5
IPTV/IGMP wired forwarding performance	25 Mbps
Language	Chinese (Simplified) English Vietnamese Turkish Indonesian Thai Chinese (Hong Kong Traditional) Spanish (Latin America) Russian Arabic Italian
WAN aggregation	Yes
LAN aggregation	Yes
Reyee Mesh 3.0	
Automatic switching between wired and wireless repeater mode	Yes

Model	RG-EW6000GX
Maximum number of devices	32
Recommended hop count	2
Maximum number of clients	192
Flow control	
Flow control based on number of users	Yes
Standalone/Shared mode	Yes
Interface flow control	Yes
Behavior Management	
Selecting clients from the client list to block their access to the Internet	Yes
Specifying MAC addresses of controlled clients	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
VPN	
PPTP VPN server	Yes
PPTP VPN client	Yes
Number of concurrent tunnels supported by the PPTP VPN server	30
OpenVPN server	Yes
Username and password authentication	Yes
Certificate authentication	Yes
Server domain name configuration	Yes
Number of concurrent tunnels supported by the OpenVPN server	8



Model	RG-EW6000GX
OpenVPN bandwidth	13 Mbps
OpenVPN client	Yes
Hardware Specifications	
MIMO	2.4 GHz, 4 x 4 5 GHz, 4 x 4
Certification	CE, CB
Warranty	3 years
LEDs	4 x system status LEDs 1 x Mesh LED
RAM	512 MB
Power supply	DC 12 V 2.5 A
Product dimensions (W x D x H)	200 mm x 200 mm x 43.8 mm (7.87 in. x 7.87 in. x 1.72 in.) (excluding antennas)
Weight	0.95 kg (2.09 lbs) (without packaging materials) 1.68 kg (3.7 lbs) (with packaging materials)
Operating temperature	0 °C to +40 °C (32 °F to 104 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to 158 °F)
Operating humidity	5% RH to 95% RH (non-condensing)
Storage humidity	5% RH to 95% RH (non-condensing)
Maximum transmit power	2.4 GHz: 802.11b:23dBm 802.11g:6M 23dBm; 54M 20dBm 802.11n:MCS0 23dBm MCS7:19dBm 802.11ac:MCS0 23dBm MCS7:19dBm;MCS8 18.5dBm;MCS9 18.5dBm 802.11ax:MCS0 23dBm MCS7:19dBm;MCS11 16.5dBm 5 GHz: 802.11a:6M 23dBm; 54M 19dBm 802.11n:MCS0 23dBm MCS7:19dBm 802.11ac:MCS0 23dBm;MCS9 17dBm (20M/40M/80M)

Model	RG-EW6000GX
	<p>802.11ax:MCS0 23dBm; MCS9 17dBm</p> <p>(20M/40M/80M), MCS9 16dBm (160M) ;</p> <p>MCS11 16dBm (20M/40M/80M)</p> <p>MCS11 15dBm (160M)</p> <p>Note: The transmit power varies according to regulations in different countries and regions.</p> <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> <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>
Operating band	<p>IEEE 802.11b/g/n/ax, 2.400GHz~2.4835GHz;</p> <p>IEEE 802.11a/n/ac/ax, 5.150GHz ~ 5.350GHz;</p> <p>IEEE 802.11a/n/ac/ax, 5.470GHz ~ 5.725GHz;</p> <p>IEEE 802.11a/n/ac/ax, 5.725GHz ~ 5.850GHz;</p>

# Package Contents

Device	RG-EW6000GX: 1
Power adapter	1
User Manual	1
Warranty Card	1
Ethernet cable	1



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**Ruijie Networks Co., Ltd.**

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