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

Date: 2025.10.16

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
- 8 x Antennas
- Enterprise-Level Quad-Core Chipset
- 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

2.5G WAN +1G WAN

AGGREGATE

2.5G WAN/LAN | LAN/WAN | LAN/IPTV | LAN | GAMING | RESET | DC | MESH

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

1G LAN + 1G LAN

AGGREGATE

2.5G WAN/LAN   LAN/WAN   LAN/IPTV   LAN   GAMING   RESET   DC   MESH

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

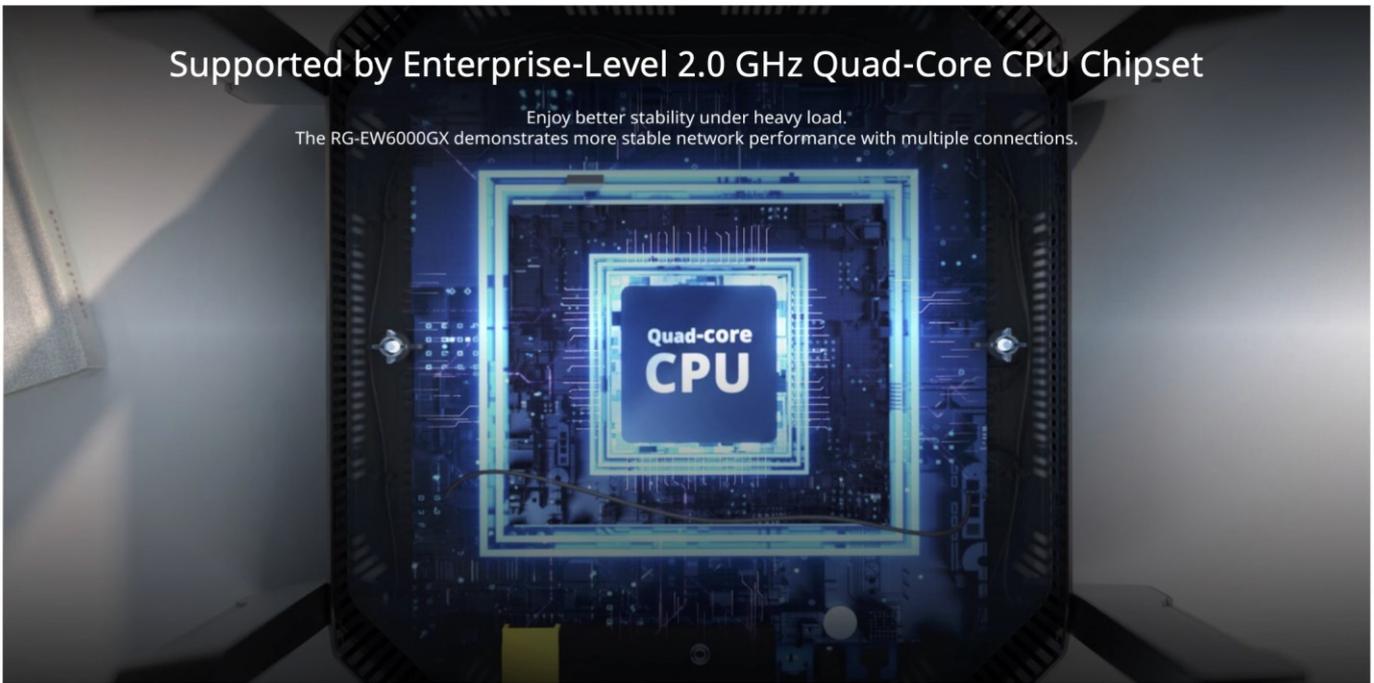**Dual-LAN Aggregation**

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!

Gaming Port

AGGREGATE

2.5G WAN/LAN   LAN/WAN   LAN/IPTV   LAN   GAMING   RESET   DC   MESH

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.

Quad-core CPU

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.
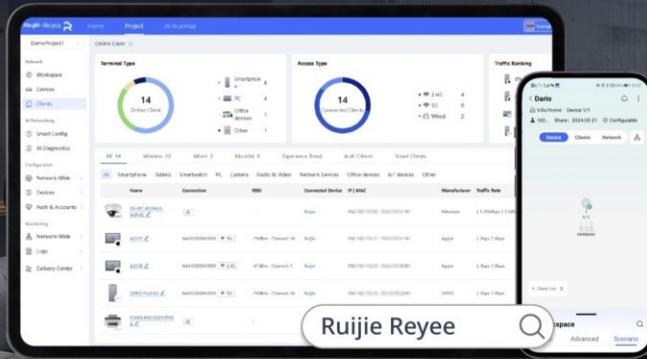
Up to **384** Clients

*The data from Ruijie lab. Actual results may vary.

Highlight Features

Deliver Powerful Signals, Experience "Wall-less" Freedom

8 antennas
Eliminating coverage holes with strong wall-penetration. **Two walls** can be penetrated effortlessly.*

*The data is obtained under the laboratory condition.

Wi-Fi Solutions, Ensuring Seamless Roaming and Full Coverage
Amazed by Reyee Mesh

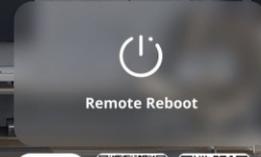# Highlight Features

Manage Your Home Network at Fingertips

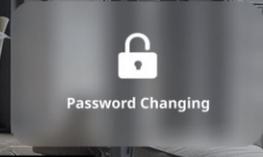Ruijie Reyee App provides incredible advanced features, allowing you to remotely manage your network at any time.

Network Status Monitoring

Online Client Monitoring

Remote Reboot

Password Changing

/ Hardware Specifications

Model	RG-EW6000GX
Wi-Fi Radio	
Operating band	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；
FEM	iPA
Max. Wi-Fi Speed	2.4 GHz, 1147 Mbps 5 GHz, 4804 Mbps
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） 802.11ax:MCS0 23dBm; MCS9 17dBm（20M/40M/80M），MCS9 16dBm（160M）； MCS11 16dBm（20M/40M/80M） MCS11 15dBm（160M） Note: The transmit power varies according to regulations in different countries and regions.
MIMO	2.4 GHz, 4 x 4 5 GHz, 4 x 4
Wi-Fi standard	Wi-Fi 6 (IEEE 802.11 ax)
Antenna	
Antenna	8 x external antennas
Antenna gain (2.4 GHz)	4.5 dBi
Antenna gain (5 GHz)	5.5 dBi
Certification and Regulatory Compliance	
Certification	CE, CB
Dimensions and Weight	

/ Hardware Specifications

Model	RG-EW6000GX
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)
Environment and Reliability	
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)
Port Specifications	
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
WAN ports	1 x 10/100/1000/2500BASE-T port
Power Supply and Consumption	
Power supply	DC 12 V 2.5 A
Product Information	
Warranty	3 years
System Specifications	
RAM	512 MB

/ Software Specifications

Model	RG-EW6000GX
Basic Configurations	
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
Ethernet Switching	
WAN port aggregation	Yes
LAN port aggregation	Yes
Specifying the VLAN tag	Yes
IP Service	
Port mapping	Yes
ARP binding	Yes
Number of ARP binding entries	64
DDNS	Yes
No-IP DNS	Yes
Ruijie DDNS	Yes
NAT-DMZ	Yes
Number of port mapping entries	50

/ Software Specifications

Model	RG-EW6000GX
UPnP	Yes
Behavior Management	
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
Ethernet Interface	
MAC address cloning	Yes
VLAN-based IPTV	Yes
Flow Control	
Flow control based on number of users	Yes
Standalone/Shared mode	Yes
Interface flow control	Yes
IPTV/VLAN	
Multiple IPTV ports	Yes
Multicast	
IGMP proxy	Yes
IGMP snooping	Yes Note: Not supported by wired connections when IPTV is turned on
Network Management and Monitoring	

Software Specifications

Model	RG-EW6000GX
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
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
Rate Limiting	
Client-based rate limiting	Yes
Reyee Mesh 3.0	
Reyee Mesh 3.0	Yes
Automatic switching between wired and wireless repeater mode	Yes

/ Software Specifications

Model	RG-EW6000GX
Recommended hop count	2
Maximum number of clients	192
Maximum number of devices	32
Security	
Encryption mode	Yes
System Performance Capacity	
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
Number of concurrent tunnels supported by the PPTP VPN server	30
PPTP VPN client	Yes

/ Software Specifications

Model	RG-EW6000GX
PPTP VPN server	Yes
Wireless Configuration	
Guest Wi-Fi	Yes
WLAN	
1024-QAM	Yes
MLO	No
DFS	Yes
802.11k/v roaming	Yes
Wi-Fi blocklist capacity	64
SSID hiding	Yes

/ Package Contents

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

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Redefine your easy network