

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



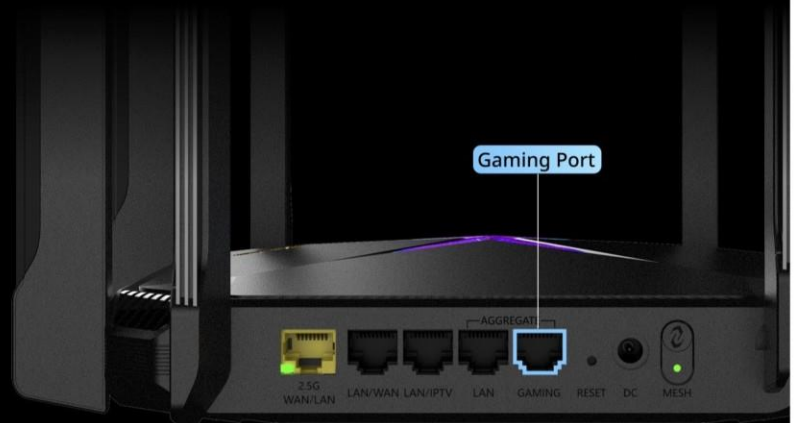
Select Your Networking with 1 x 2.5 Gbps WAN/LAN Port & 1 x 1 Gbps WAN/LAN Port & 3 x 1 Gbps LAN Ports

Dual-WAN Aggregation

Dual-LAN Aggregation

Gaming Port

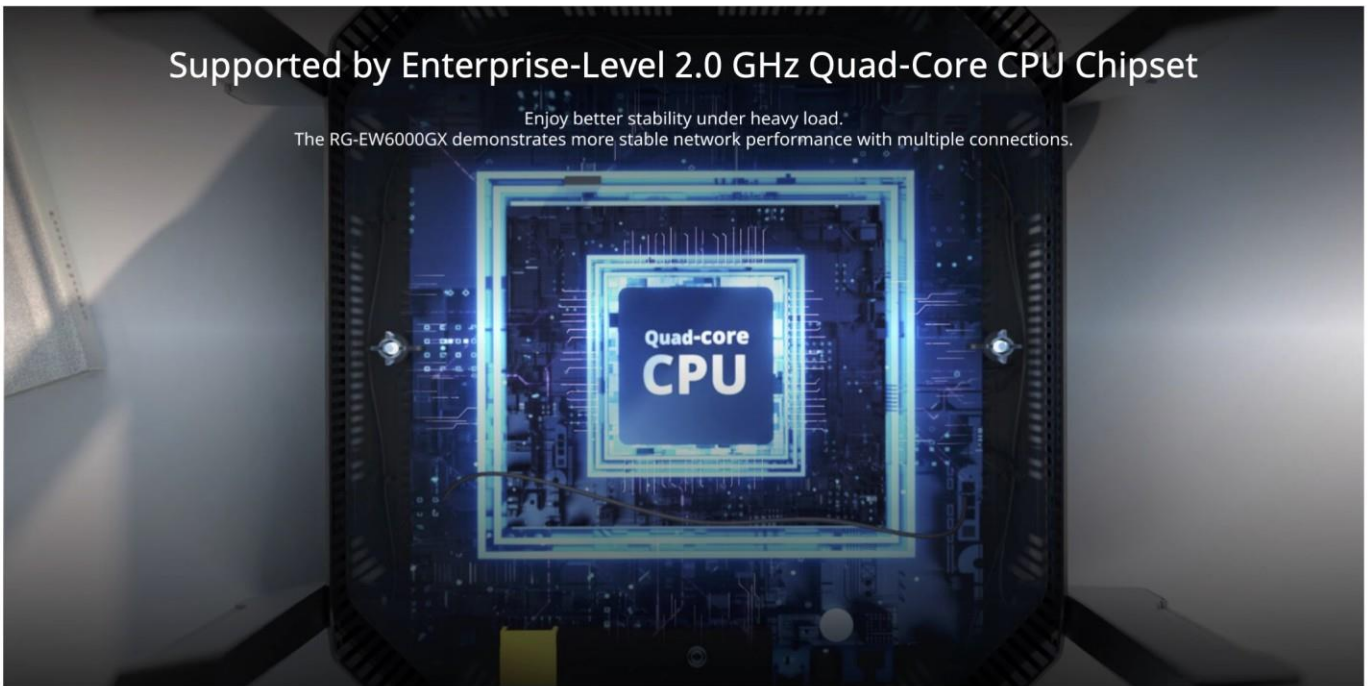
Enable Game Turbo by connecting your computer to the gaming port—prioritizing gaming and critical apps for smooth POS, conferencing, and live streaming. Discover even more features!



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.



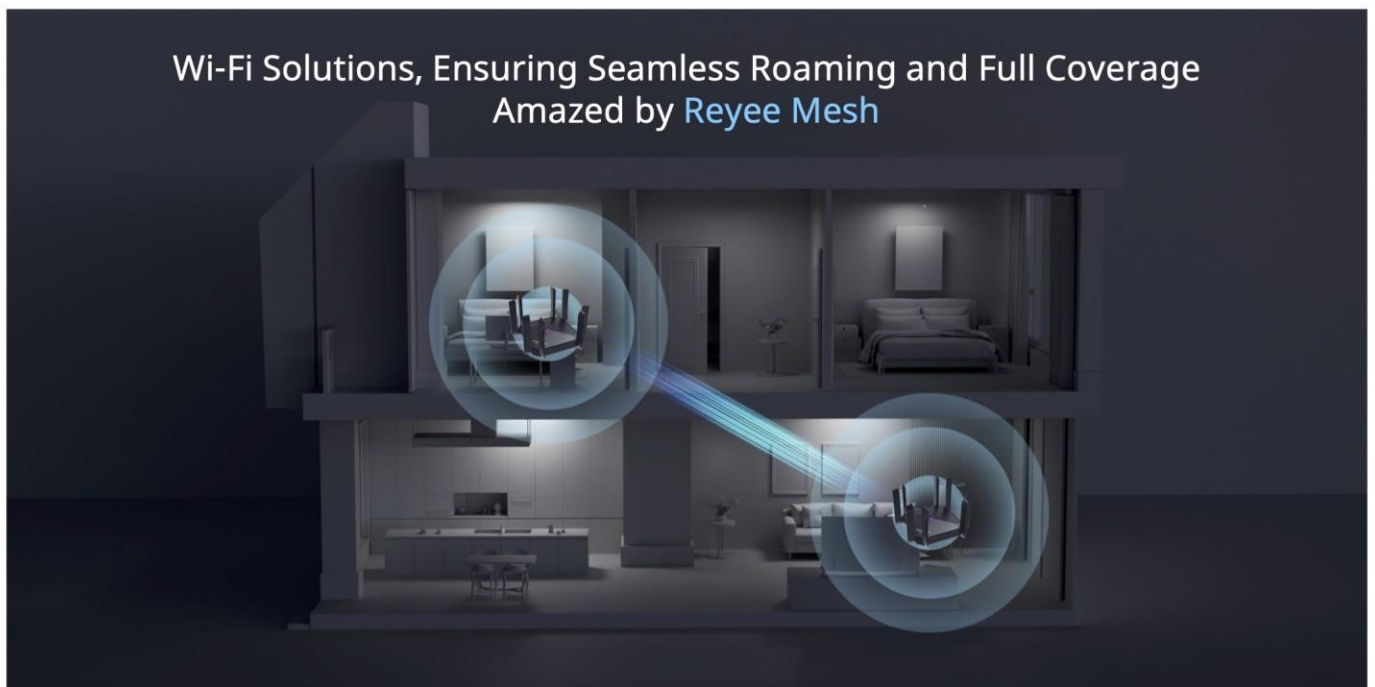
Support for Concurrent Connections of Multiple Clients

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



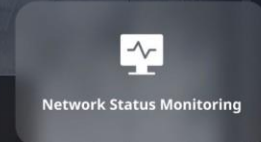
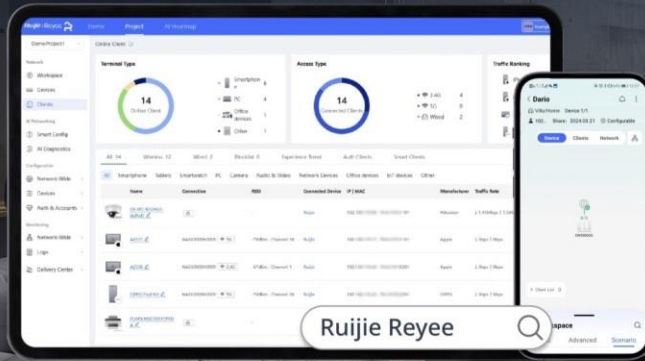
Highlight Features



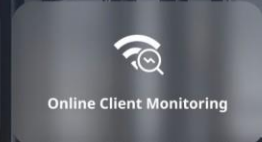
Highlight Features

Manage Your Home Network at Fingertips

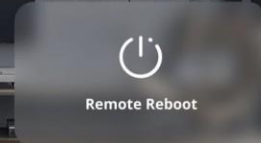
Ruijie Reyeer App provides incredible advanced features, allowing you to remotely manage your network at any time.



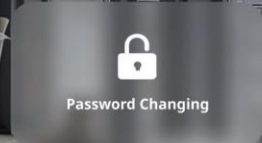
Network Status Monitoring



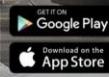
Online Client Monitoring



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 | <p>2.4 GHz:</p> <p>802.11b: 23 dBm</p> <p>802.11g: 6 Mbps 23 dBm; 54 Mbps 20 dBm</p> <p>802.11n: MCS0 23 dBm; MCS7 19 dBm</p> <p>802.11ac: MCS0 23 dBm; MCS7 19 dBm; MCS8 18.5 dBm; MCS9 18.5 dBm</p> <p>802.11ax: MCS0 23 dBm; MCS7 19 dBm; MCS11 16.5 dBm</p> <p>5 GHz:</p> <p>802.11a: 6 Mbps 23 dBm; 54 Mbps 19 dBm</p> <p>802.11n: MCS0 23 dBm; MCS7 19 dBm</p> <p>802.11ac: MCS0 23 dBm; MCS9 17 dBm (20 Mbps/40 Mbps/80 Mbps)</p> <p>802.11ax: MCS0 23 dBm; MCS9 17dBm (20 Mbps/40 Mbps/80 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> |
| Maximum transmit power(EIRP) | <p>Frequency bands using and the max EIRP:</p> <p>Note: Country specific restrictions apply</p> <p>European Union & 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> |

Hardware Specifications

| Model | RG-EW6000GX |
|--|--|
| | 5150-5350 MHz, EIRP ≤ 23 dBm 5725-5825 MHz, EIRP ≤ 23 dBm Egypt: 2400-2483.5 MHz, EIRP ≤ 20 dBm 5150-5350 MHz, EIRP ≤ 23 dBm Vietnam: 2400-2483.5 MHz, EIRP ≤ 23 dBm 5150-5350 MHz, EIRP ≤ 23 dBm 5470-5725 MHz, EIRP ≤ 30 dBm 5725-5825 MHz, EIRP ≤ 30 dBm |
| MIMO | 2.4 GHz, 4 x 4 5 GHz, 4 x 4 |
| Wi-Fi standard | Wi-Fi 6 (IEEE 802.11ax) |
| 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 | |
| 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 |

/ Hardware Specifications

| Model | RG-EW600GX |
|-------------------------------------|---|
| 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 |
| 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-EW600GX |
|--|---|
| UPnP | Yes |
| IPv6 | 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-EW600GX |
|--|--------------------|
| 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 |
| OFDMA | Yes (DL OFDMA) |
| 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 |

Ruijie | REYEE

 Redefine your easy network



Ruijie Networks Co., Ltd.

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