

Wi-Fi 6 Meshing Ultra High-Speed Gaming Router Dual-band 802.11ax AX6000, Up to 2 WAN Load Balanced

RG-EW6000GX



The RG-EW6000GX is a high-performance Wi-Fi 6 multi-gigabit mesh router, delivering blazing speeds up to 1147 Mbps on 2.4 GHz and 4804 Mbps on 5 GHz—totalling 5951 Mbps. Built for gamers and power users, it includes a dedicated Gaming Port to prioritise critical traffic for streaming, apps, and demanding network tasks. With eight high-gain omnidirectional antennas and eight front-end modules (FEMs), it ensures strong, reliable coverage for homes, offices, and commercial environments. Easily mesh with Reyee EW series routers and manage your network effortlessly through the free cloud-based app.

3-Year Manufacturer’s Warranty

For full terms & conditions, please see – [Ruijie Warranty T&Cs](#).

Features and Benefits

- » Ultra-high-speed Wi-Fi 6 supports a 160 MHz bandwidth, achieving 1147 Mbps at 2.4 GHz and 4804 Mbps at 5 GHz, for a total dual-band speed of 5951 Mbps.
- » Cutting-edge gaming and home Wi-Fi router with a quad-core enterprise-level chipset with a dedicated Gaming port to prioritise gaming and other critical apps.
- » Versatile connectivity: Includes 1 fixed 2.5 Gbps WAN, 1 switchable 1 Gbps LAN/WAN, and 3 x 1 Gbps LAN ports, with dual WAN and dual LAN aggregation supported for ultimate throughput.
- » With 8 antennas and 8 FEMs supporting 4 x 4 MIMO, the RG-EW6000GX helps penetrate walls and eliminate coverage holes, ensuring strong and reliable coverage that makes barriers disappear.
- » Mesh technology: Enables seamless roaming and unified connectivity when paired with EW Reyee series routers.
- » Effortless setup and management: Easily configure and control your network with the intuitive Ruijie cloud app.



Specifications

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 × external antennas



Wi-Fi 6 Meshing Ultra High-Speed Gaming Router Dual-band 802.11ax AX6000, Up to 2 WAN Load Balanced

RG-EW6000GX



Basic (continued)

Antenna gain (2.4 GHz)	5.85 dBi
Antenna gain (5 GHz)	5.66 dBi
LAN ports	4 × 10/100/1000BASE-T ports
WAN ports	1 × 10/100/1000/2500BASE-T port
Ruijie Cloud management	Yes

Software

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
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

Software (continued)

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
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

Wi-Fi 6 Meshing Ultra High-Speed Gaming Router Dual-band 802.11ax AX6000, Up to 2 WAN Load Balanced

RG-EW6000GX



Software (continued)

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
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

Behavior Management (continued)

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
OpenVPN bandwidth	13 Mbps
OpenVPN client	Yes

Hardware

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

Wi-Fi 6 Meshing Ultra High-Speed Gaming Router Dual-band 802.11ax AX6000, Up to 2 WAN Load Balanced

RG-EW6000GX



Hardware (continued)

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) 802.11ax:MCS0 23dBm; MCS9 17dBm (20M/40M/80M) , MCS9 16dBm (160M) ; MCS11 16dBm (20M/40M/80M) MCS11 15dBm (160M)

Hardware (continued)

	Note: The transmit power varies according to regulations in different countries and regions. Frequency bands using and the max EIRP: Note: Country specific restrictions apply European Union & United Kingdom 2400-2483.5 MHz, EIRP ≤ 20 dBm 5150-5350 MHz, EIRP ≤ 23 dBm 5470-5725 MHz, EIRP ≤ 30 dBm Myanmar : 2400-2483.5 MHz, EIRP ≤ 23 dBm 5725-5825 MHz, EIRP ≤ 30 dBm Thailand: 2400-2483.5 MHz, EIRP ≤ 20 dBm 5150-5350 MHz, EIRP ≤ 23 dBm 5470-5725 MHz, EIRP ≤ 30 dBm 5725-5825 MHz, EIRP ≤ 30 dBm Indonesia: 2400-2483.5 MHz, EIRP ≤ 27 dBm 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
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 ;