

# RG-EW3000GX PRO

## 3000M Wi-Fi 6 Dual-Band Gigabit Mesh Router

DATASHEET



### Highlights

- Next-generation gigabit Wi-Fi 6 standard
- WAN aggregation
- Gaming engine providing unrivalled gaming experience
- Strong signals received
- Exclusive Reyee mesh providing whole-home Wi-Fi coverage
- Control of your home network at your fingertips

## Highlight Features

# BORN STRONG, BORN WILD

AX3000 Dual-Band Gaming Router

**RG-EW3000GX PRO**

RG-EW3000GX PRO is not only a cost-effective Wi-Fi 6 home router, but also can be used as a gaming router, with a variety of eSports functions for you to explore!



160MHz  
bandwidth



Dual-WAN  
broadband Aggregation



802.11ax



## 2X Capacity, 3X Faster

Ultra-fast Wi-Fi 6 design with **160MHz** channel and a concurrent data rate of up to 3000 Mbps. **Two** 1 Gbps broadband connections with a combined rate of up to **1.6 Gbps**. With MU-MIMO and BSS coloring technology, all your devices get their fair share of the WiFi bandwidth.



2 x 2, 160MHz



2 x 2, 80 MHz

\*The data compares the speed of a 2x2 Wi-Fi 6 solution on a 160 MHz channel in the 5 GHz band with the speed of a 2x2 Wi-Fi 5 solution on an 80 MHz channel in the same 5 GHz.



## WAN AGGREGATION

Total 2Gbps WAN for faster connection



RG-EW3000GX PRO features WAN aggregation, delivering ultra-fast gigabit wired speed. You can enjoy a 2 Gbps wired speed from your modems all the way to your PC and gaming console.

## Accelerated Wired Connection

## Highlight Features

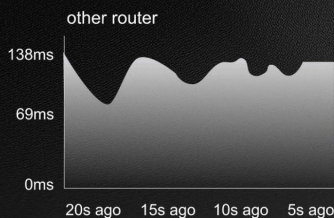
### Lag-free Gaming Experience While

#### Downloading

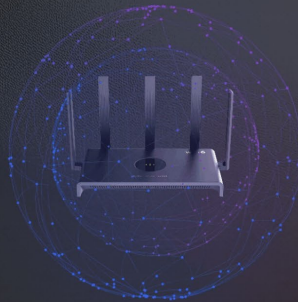
Three walls

Multiplayers

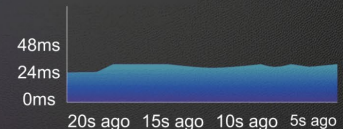
RG-EW3000GX PRO is equipped with the GameFast gaming engine, which opens up a dedicated channel for gaming services. GameFast prioritizes the identification and forwarding of game data to ensure gaming services are not affected by other services.



138ms High Ping



EW3000GX PRO



24ms Stable and Low Ping

\*Laboratory data is provided for reference purposes only

### Lag-free Gaming Experience While

Downloading

#### Three walls

Multiplayers

Five independent signal amplifiers increase the signal strength by 40%.  
Covers up to 1600 sq.ft.



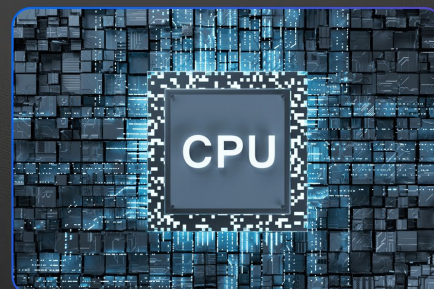
### Lag-free Gaming Experience While

Downloading

Three walls

#### Multiplayers

Wi-Fi QoS, Reyee self-developed technology, automatically classify the game frames into the highest-priority transmission queue, ensuring high stability in up to 10 multi-players.

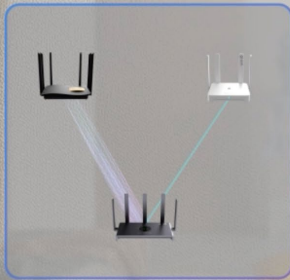


## Highlight Features

### Mix & Match, Click & Mesh All by **Reyee Mesh**

Whether it's a penthouse, a duplex, or a villa, you can mesh multiple models up with one-click Reyee Mesh to cover the entire home

#### Seamless Roaming, Full Space Coverage Wi-Fi Solutions



Wireless & Wired Reyee Mesh



Wired Reyee Mesh



Wireless Reyee Mesh

### Advanced Functions Make Your Network

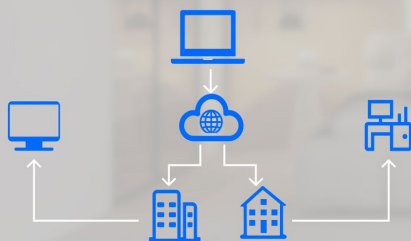
Simpler

Safer

Agiler

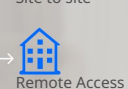
#### Ruijie DDNS

Easily connect to your server anywhere & anytime with Ruijie Dynamic DNS



#### Open VPN

Private Network in an on-site data center or Virtual Private Cloud.



### Advanced functions make your network

Simpler

Safer

Agiler

#### WPA3

More secure encryption of passwords and enhanced protection against brute-force attacks combine to safeguard your home Wi-Fi



2004  
Wireless Protected Access I



2018  
Wireless Protected Access I

#### Guest Wi-Fi

Guest Wi-Fi speed limit & Guest Wi-Fi isolation



# Highlight Features

## Advanced functions make your network

Simpler

Safer

**Agiler**

### Advanced Parental Controls

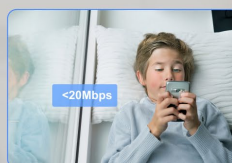
#### Time Limit

Prevent children from getting addicted to the internet by regulating their online time



#### Speed Limit

Avoid long-term occupation of high bandwidth by a certain terminal



### Scenario



#### Parental Control

2 device(s) online; 1 in control



#### Guest Wi-Fi

1 device(s)

Open to all guests



#### Eco Mode

Enabled



#### Smart Home

1 device(s)



#### XPress

Disabled



#### Blacklist

Disabled

## Take Control of Your Home Network at Fingertips

Set up your home network in **Reyee Router App** in two minutes. More **Life-time Free** functions are waiting for you to Explore, Experience, and Expect.



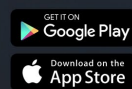
Remote Management



Parental Control



Smart Home



## Specifications

| Model                     | RG-EW3000GX PRO  |
|---------------------------|--|
| Basic                     |  |
| Dimensions (W×D×H)        | 260 mm × 140 mm × 30 mm<br>(10.24 in. × 5.51 in. × 1.18 in. antennas not included)   |
| Weight                    | 0.48 kg (packages not included)  |
| Wi-Fi Standards           | Wi-Fi 6 (802.11ax)   |
| MIMO                      | 2.4 GHz, 2×2, MU-MIMO<br>5 GHz, 2×2, MU-MIMO   |
| Max. Wi-Fi Speed          | 2.4 GHz: 574 Mbps<br>5 GHz: 2402 Mbps  |
| Channel Width             | 2.4 GHz: Auto/20/40 MHz<br>5 GHz: Auto/20/40/80/160/MHz  |
| Antennas                  | 5  |
| Antennas Type             | External Omnidirectional   |
| Antenna Gain              | 2.4 GHz: 5 dBi<br>5 GHz: 5 dBi   |
| Ports                     | 1×10/100/1000 Base-T WAN/LAN<br>1×10/100/1000 Base-T WAN<br>2×10/100/1000 Base-T LAN   |
| Recommended Users         | 60   |
| Max. Users                | 192  |
| Power Supply              | DC 12V/1.5A  |
| Power Consumption         | < 18 W   |
| Operation Frequency Bands | 802.11b/g/n/ax: 2.400 GHz to 2.483 GHz<br>802.11a/n/ac/ax: 5.150 GHz to 5.350 GHz<br>802.11a/n/ac/ax: 5.470 GHz to 5.725 GHz , 5.725 GHz to 5.850 GHz<br>country-specific restrictions apply |
| DFS                       | Support  |

|                                |  |
|--------------------------------|--|
| <b>Transmit Power</b>          | General:<br>CE EIRP: $\leq 20\text{dBm}$ (2.4GHz)<br>$\leq 27\text{dBm}$ (5GHz)<br>$\leq 20\text{dBm}$ 2400~2483.5MHz<br>Myanmar:<br>2400~2483.5MHz $\leq 20\text{dBm}$ (EIRP);<br>5150~5350MHz $\leq 23\text{dBm}$ (EIRP);<br>5470~5725MHz $\leq 30\text{dBm}$ (EIRP);<br>5725~5850MHz $\leq 30\text{dBm}$ (EIRP);                  |
| <b>Receive Sensitivity</b>     | 2.4 GHz:20MHz<br>802.11b: -91 dBm(1 Mbps)<br>802.11g: -91 dBm(6 Mbps), -72 dBm(54 Mbps)<br>802.11n: -90dBm(MCS0), -70 dBm(MCS7)<br>5 GHz:20MHz<br>802.11n: -85 dBm(MCS0), -67 dBm(MCS7)<br>802.11a: -89 dBm(6 Mbps), -72 dBm(54 Mbps)<br>802.11ac: -90dBm(MCS0), -63dBm(MCS8)<br>802.11ax: -88dBm(MCS0), -62dBm(MCS8), -58dBm(MCS11) |
| <b>Operating Temperature</b>   | -10 °C to +40 °C (14 °F to 104 °F)   |
| <b>Operating Humidity</b>      | 5% to 95% Noncondensing  |
| <b>Wireless</b>                |  |
| <b>OFDMA</b>                   | -  |
| <b>MU-MIMO</b>                 | Support  |
| <b>BSS Coloring</b>            | Support  |
| <b>Maximum Number of SSIDs</b> | 6  |
| <b>SSID Hiding</b>             | Support  |
| <b>Band Steering</b>           | Support  |
| <b>Guest Wi-Fi</b>             | Support  |
| <b>WPA/WPA2</b>                | Support  |
| <b>WPA3</b>                    | Support  |
| <b>Roaming</b>                 | Layer 2 Roaming  |
| <b>Blacklist</b>               | Support  |

|                               |   |
|-------------------------------|---|
| Reyee Mesh                    | Support   |
| Mesh Pairing by Hardware      | Support   |
| Mesh Pairing by Mesh Button   | Support   |
| Mesh Pairing by Eweb          | Support   |
| Recommended Hop Count         | ≤5  |
| Wi-Fi Optimization            | Support   |
| QoS (WMM)                     | Support   |
| WPS                           | -   |
| Transmission Power Adjustment | Support   |
| Hardware                      |   |
| CPU                           | MT7981  |
| Flash                         | 128 MB  |
| RAM/SDRAM                     | 256 MB  |
| Color                         | Black   |
| System LED Indicator          | Support   |
| Reyee Mesh LED Indicator      | Support   |
| Reyee Mesh Button             | Support   |
| Power Button                  | -   |
| Reset Button                  | Support   |
| DC Connector Dimensions       | Outer Diameter: 5.5 mm<br>Inner Diameter: 2.1 mm<br>Length: 9.5 mm<br>(Outer Diameter: 0.22 in.<br>Inner Diameter: 0.08 in.<br>Length: 0.37 in. ) |
| WAN                           |   |
| Static IP                     | Support   |
| DHCP                          | Support   |

|                                   |         |
|-----------------------------------|---------|
| PPPoE                             | Support |
| Learning PPPoE Account & Password | Support |
| VLAN Tagging                      | Support |
| LAN                               |         |
| DHCP Server                       | Support |
| Client List                       | Support |
| Static IP Assignment              | Support |
| Port-Based Flow Control           | Support |
| Features                          |         |
| TR069                             | Support |
| IPv6                              | Support |
| DDNS                              | Support |
| IPTV                              | Support |
| Alarm                             | Support |
| Diagnosis                         | Support |
| UPnP                              | Support |
| ARP Binding                       | Support |
| Port Mapping                      | Support |
| DMZ Host                          | Support |
| Rate Limitation of Terminals      | Support |
| Hardware Acceleration             | Support |
| MAC Address Cloning               | Support |
| Cloud Management                  | Support |
| Repeater Mode                     | Support |
| WISP Mode                         | Support |
| Security                          |         |

|                           |   |
|---------------------------|---|
| PPTP VPN Server           | Support   |
| PPTP VPN Client           | Support   |
| L2TP VPN Client           | -   |
| Parental Control          | Time Schedule   |
| Protect TCP Flood Attacks | Support   |
| Protect ICMP Attacks      | -   |
| Protect UDP Flood Attacks | -   |
| System                    |   |
| Default Access/Password   | 192.168.110.1<br>No Password Required by Default  |
| URL Access                | Support   |
| Local Upgrade             | Support   |
| Online Upgrade            | Support   |
| APP Upgrade               | Support   |
| Syslog                    | Support   |
| Backup                    | Support   |
| Factory Reset             | Support   |
| Language                  | Chinese<br>English<br>Vietnamese<br>Turkish<br>Indonesian<br>Thai<br>traditioanl Chinese<br>Spanish<br>Russian<br>Arabic<br>Ukrainian<br>Czech<br>Italian |

## Package Contents

| Package Information      | RG-EW3000GX PRO |
|--------------------------|-----------------|
| Wireless Router          | 1               |
| Power Adapter            | 1               |
| Quick Installation Guide | 1               |
| Warranty Card            | 1               |
| Cat5E UTP Cable          | 1               |



 **R**edefine your **e**asy network

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