

# 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

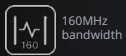
# Highlight Features

## 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

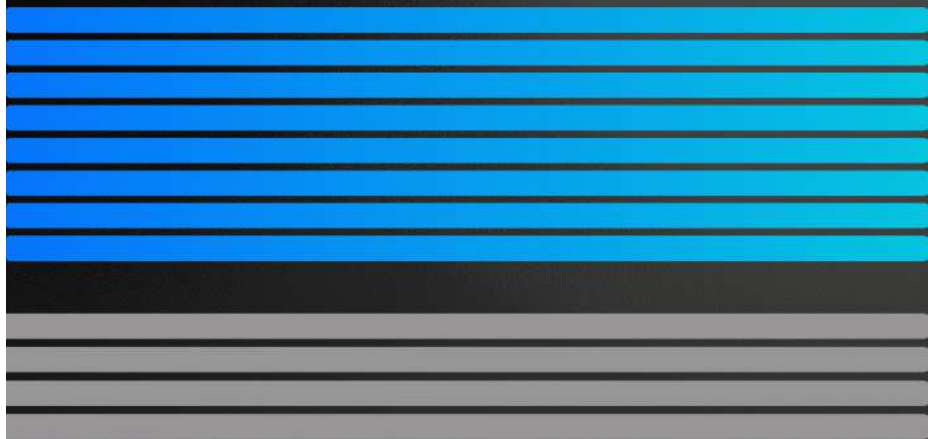


802.11ax



### 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



1000bps



1000bps



PC



Gaming console

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

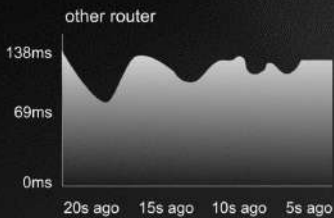
## Lag-free Gaming Experience While

### Downloading

Three walls

Multiplayers

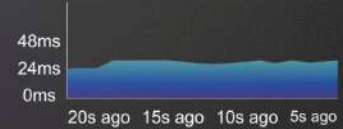
RG-EW3000GX PRO is equipped with the GameFast gaming engine, which opens up a dedicated channel for gaming services. GameFast prioritizes the identification and forwarding of game data to ensure gaming services are not affected by other services.



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.



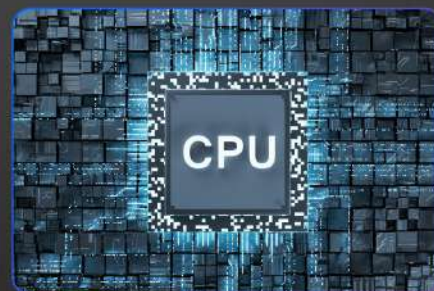
## Lag-free Gaming Experience While

Downloading

Three walls

### Multiplayers

Wi-Fi QoS, Reeye 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.



Site to site



Remote Access



LOT Communication

## 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



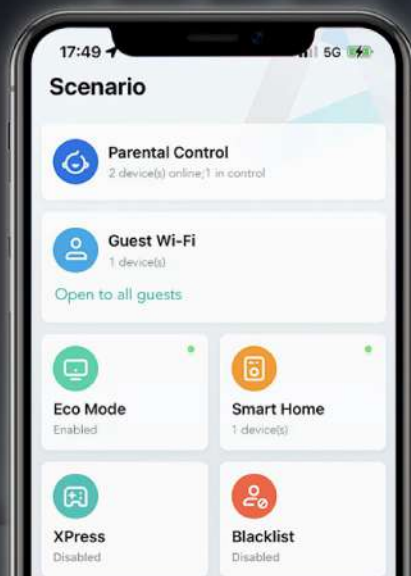
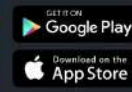
## Take Control of Your Home Network at Fingertips

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

### Basic

Dimensions (W×D×H)	260 mm × 140 mm × 30 mm (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 5 GHz, 2×2, MU-MIMO
Max. Wi-Fi Speed	2.4 GHz: 574 Mbps 5 GHz: 2402 Mbps
Channel Width	2.4 GHz: Auto/20/40 MHz 5 GHz: Auto/20/40/80/160/MHz
Antennas	5
Antennas Type	External Omnidirectional
Antenna Gain	2.4 GHz: 5 dBi 5 GHz: 5 dBi
WAN Port	1×10/100/1000 Base-T
LAN Ports	3×10/100/1000 Base-T
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 802.11a/n/ac/ax: 5.150 GHz to 5.350 GHz 802.11a/n/ac/ax: 5.470 GHz to 5.725 GHz , 5.725 GHz to 5.850 GHz country-specific restrictions apply
DFS	✓
Transmit Power	General: CE EIRP: ≤20dBm (2.4GHz) ≤27dBm (5GHz) ≤20dBm 2400~2483.5MHz Myanmar: 2400~2483.5MHz ≤ 20dBm(EIRP); 5150~5350MHz ≤ 23dBm(EIRP); 5470~5725MHz ≤ 30dBm(EIRP); 5725~5850MHz ≤ 30dBm(EIRP);

## Specifications

### Basic

Receive Sensitivity	2.4 GHz:20MHz 802.11b: -91 dBm(1 Mbps) 802.11g: -91 dBm(6 Mbps), -72 dBm(54 Mbps) 802.11n: -90dBm(MCS0), -70 dBm(MCS7) 5 GHz:20MHz 802.11n: -85 dBm(MCS0), -67 dBm(MCS7) 802.11a: -89 dBm(6 Mbps), -72 dBm(54 Mbps) 802.11ac: -90dBm(MCS0), -63dBm(MCS8) 802.11ax: -88dBm(MCS0), -62dBm(MCS8), -58dBm(MCS11)
Operating Temperature	-10 °C to +40 °C (14 °F to 113 °F)
Operating Humidity	5% to 95% Noncondensing

### Wireless

OFDMA	-
MU-MIMO	✓
BSS Coloring	✓
Maximum Number of SSIDs	6
SSID Hiding	✓
Band Steering	✓
Guest Wi-Fi	✓
WPA/WPA2	✓
WPA3	✓
Roaming	Layer 2 Roaming
Blacklist	✓
Reyee Mesh	✓
Mesh Pairing by Hardware	✓
Mesh Pairing by Mesh Button	✓
Mesh Pairing by Eweb	✓
Recommended Hop Count	≤5

## Specifications

### Wireless

Wi-Fi Optimization	✓
QoS (WMM)	✓
WPS	-
Transmission Power Adjustment	✓

### Hardware

CPU	MT7981
Flash	128 MB
RAM/SDRAM	256 MB
Color	Black
System LED Indicator	✓
Reyee Mesh LED Indicator	✓
Reyee Mesh Button	✓
Power Button	-
Reset Button	✓

DC Connector Dimensions

Outer Diameter: 5.5 mm  
Inner Diameter: 2.1 mm  
Length: 9.5 mm  
(Outer Diameter: 0.22 in.  
Inner Diameter: 0.08 in.  
Length: 0.37 in. )

### WAN

Static IP	✓
DHCP	✓
PPPoE	✓
Learning PPPoE Account & Password	✓
VLAN Tagging	✓



## Specifications

### LAN

DHCP Server



Client List



Static IP Assignment



Port-Based Flow Control



### Features

TR069



IPv6



DDNS



IPTV



Alarm



Diagnosis



UPnP



ARP Binding



Port Mapping



DMZ Host



Rate Limitation of Terminals



Hardware Acceleration



MAC Address Cloning



Cloud Management



Repeater Mode



WISP Mode



### Security

PPTP VPN Server



PPTP VPN Client



# Specifications

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

## Package Contents

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

**Ruijie | Rcycc**

 **Redefine your easy network**

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