



# RG-EW1200

## Dual-band Wireless Router Datasheet

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## Product Overview

Ruijie Reyee RG-EW1200 is a dual-band wireless consumer router designed for individual private space, room, villas, small shops, SOHO and other scenarios. The device can meet the needs of Gigabit Internet access with its excellent performance, while providing strong signals and coverage. Integrated with Ruijie' s exclusive Reyee Mesh Technology, it eliminates the configuration difficulties of multi-device networking and adding new equipment to the network. The simple app management coupled with features such as children's Internet protection, gaming mode, and smart home Wi-Fi makes it a practical and easy-to-use wireless router for men, women and children.

RG-EW1200 offers 1 10/100Mbps WAN port and 3 10/100Mbps LAN ports, with maximum access bandwidth of 100Mbps. The two models meet different requirements. The recommended number of wireless terminals is 32. The device supports both 2.4GHz and 5GHz, offering maximum wireless rate of 300Mbps at 2.4G, 867Mbps at 5G and 1167Mbps per router. Equipped with the 802.11ac Wave2 chip, the device supports MU-MIMO, which can support more terminals, provide faster wireless speed and more stable connection, thereby improving the terminals' Internet access performance and users' Internet experience.

In addition to Ruijie' s Reyee Mesh Technology, the router also supports network deployment with Ruijie Reyee Series enterprise gateways and APs for unified management and configuration. No matter which networking method is used, the RF adjustment algorithm applied to millions of Ruijie enterprise-grade APs can provide seamless roaming between devices and fast switching between 2.4GHz and 5GHz. Users can move around the Wi-Fi coverage area without service interruption thanks to the seamless roaming.

## Product Overview

Collaborative management can be authorized to others temporarily or permanently. Local or remote management and configuration can be performed via various methods such as local web, Ruijie Cloud app, etc. to achieve fault diagnosis and maintenance, providing multi-end management on mobile phone and PC anytime anywhere, and offering worry-free maintenance.

## Product Features

### 1167M Dual-Band Integration Offering Low Interference and Fast Internet Speed

Affected by the actual application environment, the 2.4GHz frequency band has high interference and the testing speed is usually only 40 to 50M, which is unlikely to reach 100M.

RG-EW1200 provides both 2.4GHz and 5GHz wireless frequency bands at the same time. The 2.4GHz frequency band offers good penetration, long transmission and wide coverage, providing good basic signal coverage. The 5GHz frequency band features low interference, high speed, and low latency, providing better experience when watching HD videos and playing online games.

The SSIDs of 2.4GHz and 5GHz can be set separately, or the two can be combined into one, offering dual-band concurrent access, 5G priority and smart identification, which provides better Internet experience.

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### MU-MIMO Offers Higher Transmission Efficiency

The device supports 802.11ac Wave2 MU-MIMO (multi-user, multiple-input, multiple-output), changing the previous inefficient transmission method in which only one terminal can occupy the channel at a time. MU-MIMO allows the device to transmit data to multiple terminals concurrently. Multi-terminal concurrent transmission is no longer in competitive mode, which improves the multi-user experience by 50% and offers extremely fast Internet access for all users.

## Product Features

### Professional RF Design Multiplies the Coverage Distance

The quad-stream independent FEM design ensures that the LNA amplifies the received signal power during signal transmission to effectively improve the receiving sensitivity and to a certain extent reduce the problems caused by the unbalanced power between the router and the Wi-Fi terminal, such as false signal and terminal signal unable to transmit back to the router. In addition, the external omnidirectional antennas also further ensure the Wi-Fi signal coverage.

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### Exclusive Reyee Mesh Technology Enables Zero-configuration Networking for Multiple Devices

Reyee Mesh is a networking technology self-developed by Ruijie for multiple wireless routers' connection, which supports both plug-in and one-key pairing. Without requiring any pre-configuration, you can complete the multiple devices pairing process, additional equipment installation, and coverage optimization with zero threshold. Multiple wireless routers connected by Reyee Mesh Technology can intelligently identify the connection status and automatically switch between wireless relay and wired relay modes to improve network reliability.

## Product Features

### Reyee Mesh Technology Offers Seamless Roaming without Disconnection

The Reyee Mesh Technology supports wired or wireless networking of multiple devices. The RF adjustment algorithm applied to millions of Ruijie enterprise-grade APs can provide seamless roaming between the equipment and fast switching between 2.4GHz and 5GHz. When users walk around under the Wi-Fi signal coverage, the optimal frequency band selection and network switching will be automatically performed without service interruption.

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### Parental Control Allow Parents to Monitor Their Child's Internet Use

Users can control the Internet access authority of the specified terminal through the Ruijie Cloud App and set rules to limit the online duration of the specified terminal.

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### Temporary Authorization for Remote Management

Users can use the Ruijie Cloud App for smart network inspection to determine the current network failures. Users can also temporarily grant network authorization and share network to technical personnel who can do remote-diagnosis through various technical tools such as Ruijie Cloud app and Ruijie Cloud platform, to avoid unnecessary on-site services.

## Product Features

### Professional Heat Dissipation Design for Long-Term Stable Operation

The CPU uses metal sheet for heat dissipation, offering heat dissipation coefficient close to  $200\text{W}/\text{m}^{\circ}\text{K}$ , which is 20 times that of the traditional ceramic heat-sinks. With an excellent aerodynamic heat dissipation structure design, the internal temperature of the equipment is greatly reduced. Long-term high-speed operation is stable and reliable, avoiding stability problems such as speed reduction and crashes caused by excessive temperature.

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### Enterprise-grade product design supporting connection with enterprise-grade equipment

The device can be deployed with Ruijie Reyee enterprise-grade gateway and AP for hybrid deployment, unified management, unified configuration, and seamless roaming.

# Product highlight Features

## Wi-Fi Control

Individual SSID management : Support 8 SSIDs. The frequency band, encryption mode, VLAN and address segment can be configured individually based on the SSID.

Wireless experience optimization: In strong interference environment, the wireless competitive mode can be applied to increase channel occupancy and improve network experience. 5G priority is supported to access 5G networks at higher priority for higher speed and less interference.

Wireless access security: Support viewing of wireless user information, as well as blacklist and whitelist access control for wireless terminals.

Health mode: The Wi-Fi power can be reduced based on the time period, so that the radiation is smaller, and the power consumption is lower.

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## Multiple Management Methods

Local or remote management and configuration of the entire network for EG + AP networking can be performed using the Ruijie Cloud app or Ruijie Cloud platform so that fault can be discovered and handled in time. With the Ruijie Cloud app, it also supports features such as QR code authentication for Wi-Fi, terminal status checking, Wi-Fi setting, parental control, and device restart.



# Hardware Specifications

| Model                   | RG-EW1200  |
|-------------------------|--|
| Wireless specifications | <p>2.4GHz 2*2: maximum rate 300Mbps;<br/>                     5GHz 2*2: maximum rate 867Mbps</p> <p>Antenna: External 5dBi omnidirectional antennas</p> <p>Support 802.11a/b/g/n/ac/ac Wave2, MU-MIMO</p> <p>Frequency band: Independent 2.4GHz and 5GHz modules, supporting dual frequency integration</p> <p>Wi-Fi channel:<br/>                     2.4GHz :2.4G~2.4835GHz<br/>                     5GHz: 5.150~5.250GHz, 5.250~5.350H, 5.470~5.725GH, 5.725~5.850GHz (According to country specific)</p> |
| Ports                   | <p>1 10/100M WAN port (Auto MDI/MDIX)</p> <p>3 10/100M LAN ports (Auto MDI/MDIX)</p> <p>1 white system LED indicator, 1 WIFI LED indicator, 4 network port LED indicators</p> <p>1 device pairing/factory reset button</p> <p>1 power input interface</p>  |
| Physical specifications | <p>Dimensions: 182x120x32mm (W×D×H, excluding antennas)</p> <p>Weight: 0.4kg (entire equipment including packaging)</p>  |
| Power supply            | <p>Power specification: DC12V 1A</p> <p>Maximum power: &lt;7W</p>  |
| Certification           | CE, RoHS   |

# Hardware Specifications

| Model                 | RG-EW1200  |
|-----------------------|--|
| Operating environment | <p>Operating temperature: 0-45°C</p> <p>Storage temperature: -40-70°C</p> <p>Operating humidity: 5%-95%RH (non-condensing)</p> <p>Storage humidity: 5%-95%RHn (non-condensing)</p>   |
| Main features         | <p>Routing mode: PPPoE / DHCP / static IP; relay mode: wired relay / wireless relay</p> <p>Obtain PPPoE account from the old router</p> <p>Wi-Fi dual-band separation/ integration</p> <p>Guest Wi-Fi; smart Wi-Fi; wireless network isolation</p> <p>Static DHCP address</p> <p>Virtual server: port mapping, DMZ, etc.</p> <p>DDNS: Oray</p> <p>UPnP</p> |
| Main features         | <p>Wireless security: WPA-PSK/WPA2-PSK encryption</p> <p>ARP protection: IP/MAC binding</p> <p>SSID hiding</p> <p>Preventing rogue devices (Blacklist/whitelist)</p> <p>Internet access control</p>  |

# Hardware Specifications

| Model             | RG-EW1200   |
|-------------------|---|
| Advanced features | Reyee Mesh: Supports zero-configuration networking of multiple devices, and supports automatic switching between wired and wireless networking for multiple devices<br>Wi-Fi optimization: Wi-Fi roaming, 5G priority, acceleration mode, channel adjustment, power adjustment, roaming sensitivity adjustment<br>Bandwidth management: intelligent bandwidth allocation<br>Auto network inspection, fault diagnosis<br>Software upgrade: Automatic & manual cloud software upgrade |
| Management mode   | Local web page<br>Ruijie Cloud app: iOS version, Android version  |

## Typical Applications

RG-EW1200 Series is an ideal choice for wireless network deployment in individual private space, room, villas, small shops, and SOHO. RG-EW1200 Series can realize flexible networking and seamless roaming for multi-device via the Reye Mesh Technology, providing stable and high-speed wireless experience.



## Ordering Information

| Model     | Description  |
|-----------|--|
| RG-EW1200 | 1200M dual-band Megabit wireless mesh router, enterprise-grade chip, Megabit broadband access, dual-core hyper-threading CPU, support hardware NAT, wireless: dual-band 1167Mbps, wired: 4 Megabit Ethernet ports including 1WAN+3LAN, 802.11ac Wave2, exclusive Reyee Mesh networking technology for multi-device, support Wi-Fi seamless roaming, equipped with intelligent hardware NAT forwarding technology, management via Ruijie Cloud App on mobile phones |



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