

# RG-EG310GH-P-E

## Reyee 10-Port High-Performance Cloud Managed PoE Office Router



### Highlights

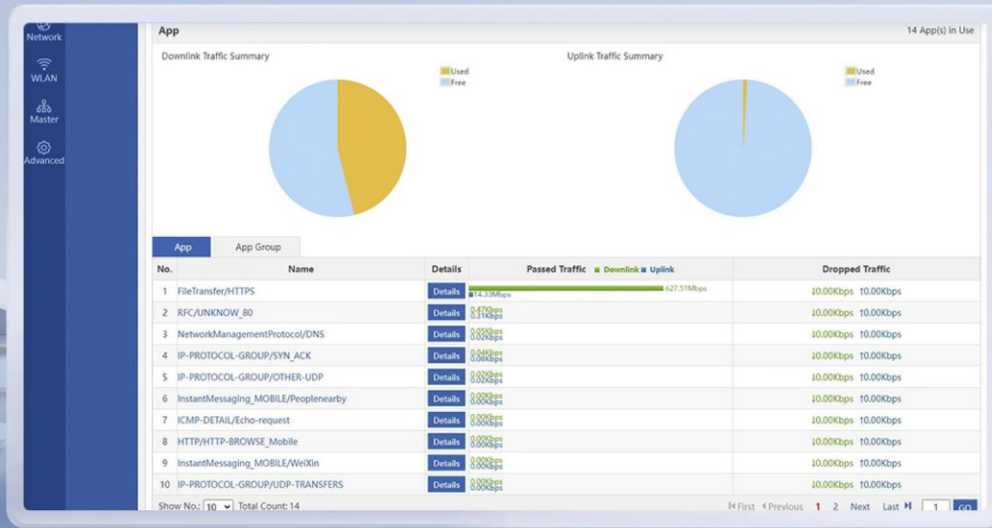
- 1.5 Gbps throughput, high-performance VPN router for office networks.
- Powerful VPN for branches and remote employees.
- Traffic visualization and monitoring.
- Efficient bandwidth management based on applications and users.
- Multi-WAN, intelligent load balancing.



# Highlight Features

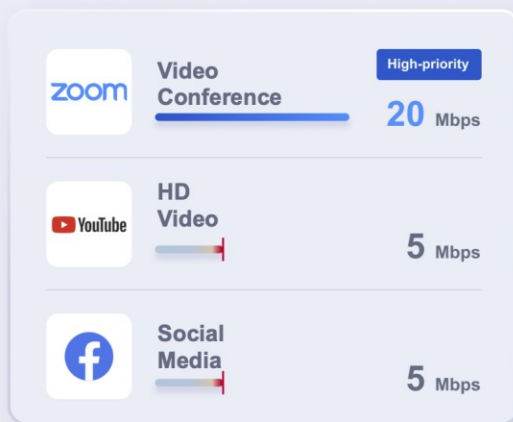
## Who is Eating Your Internet Speed?

Traffic visualization monitoring for you. No matter traffic user ranking, or traffic application ranking, everything in a glance

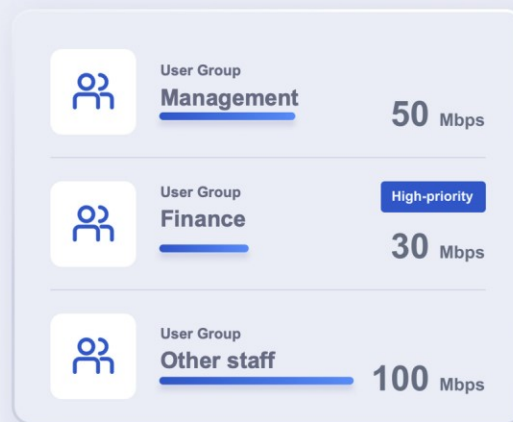


## New Efficient Way of Bandwidth Management

### Application Based Bandwidth Management



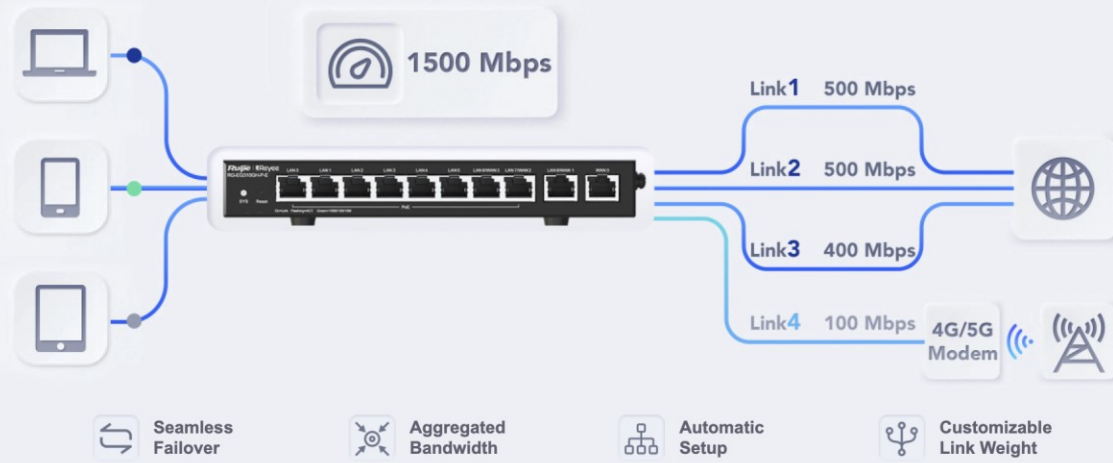
### User Based Bandwidth Management



# Highlight Features

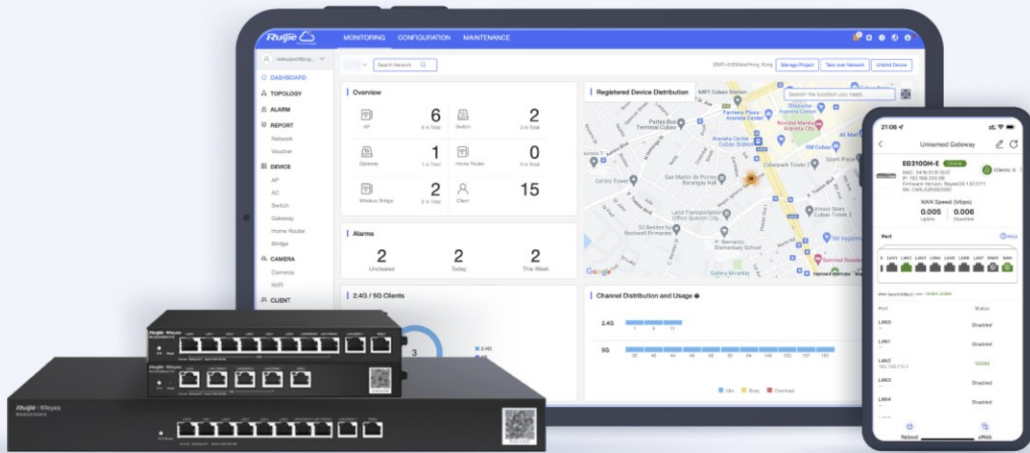
## Unbreakable Multi-WAN, Intelligent Load Balancing

Supports load balancing, redundancy link, and source IP based PBR(Policy based routing).  
Preventing login failures due to IP address changes for services such as e-banking.



## Cloud, Make Your Business Easy

- Reeye free DDNS
- Cloud portal authentication
- Remote monitoring and maintenance
- Upgrade firmware via Cloud
- APP library dynamic update
- Customized APP library via APP



# Hardware Specifications

| Model                               | RG-EG310GH-P-E  |
|-------------------------------------|---|
| <b>Port Specifications</b>          |   |
| Total number of RJ45 ports          | 10  |
| Number of 10/100/1000BASE-T ports   | 10  |
| Maximum number of LAN ports         | 9   |
| Maximum number of WAN ports         | 4   |
| Number of fixed LAN ports           | 6   |
| Number of fixed WAN ports           | 1   |
| Number of LAN/WAN ports             | 3   |
| LEDs                                | 1 x system status LED<br>10 x Ethernet port LEDs  |
| Reset button                        | 1   |
| <b>System Specifications</b>        |   |
| CPU                                 | Dual-core processor, 1.35 GHz clock frequency per core  |
| Flash memory                        | 256 MB  |
| RAM                                 | 512 MB  |
| <b>Power Supply and Consumption</b> |   |
| Power supply                        | DC power adapter  |
| Dimensions of the DC connector      | Outer diameter: 5.5 mm (0.22 in.)<br>Inner diameter: 2.1 mm (0.08 in.)<br>Depth: 10.0 mm (0.39 in.) |
| Maximum power consumption           | 130 W   |
| PoE budget                          | 110 W   |
| Number of PoE Out ports             | 8   |
| PoE budget per port                 | 30 W  |
| PoE power pins                      | 1-2 (+), 3-6 (-)  |
| PoE Out standard                    | IEEE 802.3af/at (PoE/PoE+)  |

# Hardware Specifications

| Model                              | RG-EG310GH-P-E  |
|------------------------------------|---|
| <b>Dimensions and Weight</b>       |   |
| Package dimensions (W x D x H)     | 594 mm x 430 mm x 267 mm (23.39 in. x 16.93 in. x 10.51 in.)  |
| Product dimensions (W x D x H)     | 202 mm x 108 mm x 28 mm (7.95 in. x 4.25 in. x 1.1 in.)   |
| Shipping weight                    | 1.62 kg (3.57 lbs)  |
| Weight                             | 1.50 kg (3.31 lbs)  |
| <b>Environment and Reliability</b> |   |
| Cooling                            | Natural cooling   |
| Fan                                | Fanless design  |
| Mounting options                   | Desk  |
| Operating humidity                 | 10% RH to 90% 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)  |
| Surge protection                   | Service port: ±4 kV for common mode<br>Power connector: ±4 kV for common mode and ±4 kV for differential mode |

# Software Specifications

| Model   | RG-EG310GH-P-E   |
|---|--|
| <b>System Performance Capacity</b>  |  |
| Maximum number of concurrent sessions   | 100000   |
| Recommended number of concurrent clients                                      | 350  |
| Throughput  | 1500 Mbps  |
| <b>Basic Configurations</b>   |  |
| AC mode   | Yes  |
| Automatically identifying the Internet access mode and obtaining IP addresses | Yes  |
| Automatically learning the PPPoE username and password of other routers       | Yes  |
| Configuration backup  | Yes  |
| Internet access mode  | Static IP address<br>Static IPv6 address<br>Dynamic IP address<br>Dynamic IPv6 address<br>PPPoE  |
| Local upgrade   | Yes  |
| Log upload  | Yes  |
| Online upgrade  | Yes  |
| Restoring factory defaults  | Yes  |
| System language   | Turkish, Arabic, Vietnamese, Thai, Indonesian, Latin American Spanish, Brazilian Portuguese, Russian, French, German, European Spanish, Italian, and Polish. |
| <b>Authentication</b>   |  |
| Portal authentication   | Yes  |
| One-click authentication  | Yes  |
| Password authentication   | Yes  |

# Software Specifications

| Model  | RG-EG310GH-P-E |
|--|----------------|
| SMS-based authentication   | Yes            |
| Voucher authentication supported by Ruijie Cloud portal page       | Yes            |
| Cloud portal authentication  | Yes            |
| Local portal authentication  | Yes            |
| QR code authentication   | Yes            |
| Custom portal page   | Yes            |
| Account-based authentication supported by Ruijie Cloud portal page | Yes            |
| CHAP, MS-CHAPv1, MS-CHAPv2   | Yes            |
| Delivery through Ruijie Cloud portal page                          | Yes            |
| 802.1X authentication  | Yes            |
| MAC address-based authentication                                   | Yes            |
| PPPoE server   | Yes            |
| Number of accounts supported by the PPPoE server                   | 300            |
| Number of concurrent clients supported by the PPPoE server         | 128            |
| PAP  | Yes            |
| RADIUS authentication  | Yes            |
| RADIUS client  | Yes            |
| RADIUS accounting based on time or traffic                         | Yes            |
| RADIUS flow control authorization                                  | Yes            |
| RADIUS proxy server  | Yes            |
| RADIUS traffic quota authorization                                 | Yes            |

# Software Specifications

| Model  | RG-EG310GH-P-E |
|--|----------------|
| RADIUS user group authorization                        | Yes            |
| Third-party authentication                             | Yes            |
| <b>Ethernet Interface</b>                              |                |
| Avoiding IP address conflicts on WAN interfaces        | Yes            |
| Load balancing   | Yes            |
| MAC address cloning                                    | Yes            |
| Multiple WAN interfaces on the same network segment    | Yes            |
| PPPoE clients  | Yes            |
| Scheduled PPPoE reconnection                           | No             |
| <b>Ethernet Switching</b>                              |                |
| Configuring multiple VLANs upon configuration delivery | No             |
| Link aggregation                                       | No             |
| LLDP   | No             |
| VLAN   | Yes            |
| VLAN configuration supported on LAN ports              | Yes            |
| Super-VLAN   | No             |
| Configuring the same VLAN tag for multiple WAN ports   | No             |
| VLAN priority  | Yes            |
| <b>Gateway Features</b>                                |                |
| WAN failover   | Yes            |
| Application priority                                   | Yes            |
| Application recognition                                | Yes            |

# Software Specifications

| Model  | RG-EG310GH-P-E |
|--|----------------|
| Behavior management  | Yes            |
| Flow control   | Yes            |
| Time-based blocking policy<br>IP address-based blocking policy | Yes            |
| Website filtering: custom URL                                  | Yes            |
| Traffic audit  | Yes            |
| URL audit log  | Yes            |
| Audit log server   | Yes            |
| Audit log storage  | No             |
| Uploading audit logs to a server                               | Yes            |
| IP Routing   |                |
| Application-based routing                                      | No             |
| Bandwidth aggregation  | Yes            |
| BGP  | Yes            |
| BGP4   | Yes            |
| BGP4+  | Yes            |
| ECMP   | No             |
| IPv4 static route  | Yes            |
| IPv6 PBR   | Yes            |
| IPv6 static route  | Yes            |
| IS-ISv4  | No             |
| IS-ISv6  | No             |
| Load balancing based on flows                                  | Yes            |
| Load balancing based on source IP addresses                    | Yes            |

## Software Specifications

| Model  | RG-EG310GH-P-E |
|--|----------------|
| Load balancing based on the interface weight | Yes            |
| OSPFv2                                       | Yes            |
| OSPFv3                                       | Yes            |
| RIP  | Yes            |
| RIPng  | Yes            |
| IP Service                                   |                |
| 3322.org                                     | Yes            |
| ALG  | Yes            |
| ARP binding                                  | Yes            |
| Maximum number of ARP entries                | 1024           |
| Proxy ARP                                    | No             |
| Cloudflare                                   | Yes            |
| DHCP client                                  | Yes            |
| DHCP server                                  | Yes            |
| DHCP relay                                   | No             |
| Option 43                                    | Yes            |
| Option 138                                   | Yes            |
| Static/Dynamic NAT                           | Yes            |
| NAT-PT                                       | No             |
| NAT loopback                                 | Yes            |
| DNS client                                   | Yes            |
| DNS proxy                                    | Yes            |
| DNS server                                   | Yes            |

# Software Specifications

| Model  | RG-EG310GH-P-E |
|--|----------------|
| No-IP DNS  | Yes            |
| GRE tunnel   | No             |
| IPTV   | Yes            |
| IPv4 ping  | Yes            |
| IPv6   | Yes            |
| IPv6 ping  | Yes            |
| Number of port mapping entries                             | 512            |
| Port mapping   | Yes            |
| DDNS   | Yes            |
| Ruijie DDNS  | Yes            |
| Alibaba Cloud DDNS   | Yes            |
| UPnP   | Yes            |
| <b>Network Management and Monitoring</b>                   |                |
| Web management   | Yes            |
| Ruijie Cloud management                                    | Yes            |
| Management on Ruijie Reyee App                             | Yes            |
| Remotely monitoring devices through Ruijie Reyee App       | Yes            |
| Restarting devices through Ruijie Reyee App                | Yes            |
| Upgrading device software version through Ruijie Reyee App | Yes            |
| Fault diagnosis  | Yes            |
| FTP client (IPv4 address)                                  | No             |
| FTP server (IPv4 address)                                  | No             |
| TFTP client (IPv4 address)                                 | Yes            |

# Software Specifications

| Model  | RG-EG310GH-P-E   |
|--|--|
| TFTP server (IPv4 address)   | No   |
| HTTPS login  | Yes  |
| NTP client   | Yes  |
| NTP server   | No   |
| Scheduled device restart   | Yes  |
| SNMPv1, v2c, and v3  | Yes  |
| SON  | Yes  |
| SSH  | No   |
| Telnet   | No   |
| Web login information  | Default IP Address: 192.168.110.1<br>Default Password: admin |
| <b>Reliability</b>   |  |
| Stacking   | No   |
| VRRP   | No   |
| <b>SD-WAN</b>  |  |
| SD-WAN   | Yes  |
| SD-WAN performance   | 300 Mbps   |
| Number of tunnels supported by SD-WAN  | 192  |
| Maximum number of SD-WAN branches  | 64   |
| Active/Standby mode (automatically switching to the standby interface when the active interface fails) | Yes  |
| Bypass networking for a device in AP mode  | No   |
| Centralized traffic forwarding policy  | Yes  |
| <b>Security</b>  |  |

## Software Specifications

| Model  | RG-EG310GH-P-E |
|--|----------------|
| ACL  | Yes            |
| DHCP snooping                                      | No             |
| Malformed packet attack defense                    | Yes            |
| Fragmentation attack defense                       | No             |
| Teardrop attack defense                            | Yes            |
| LAND attack defense                                | Yes            |
| SYN flood attack defense                           | Yes            |
| Smurf attack defense                               | Yes            |
| IP attack defense                                  | Yes            |
| Disabling ping                                     | Yes            |
| Stateful firewall                                  | Yes            |
| IP-MAC binding                                     | Yes            |
| Network sharing prevention                         | Yes            |
| Security log                                       | Yes            |
| Security zone                                      | Yes            |
| User group-based connection limiting               | Yes            |
| VPN  |                |
| IPsec VPN  | Yes            |
| IPsec VPN bandwidth                                | 170 Mbps       |
| Maximum number of branches in IPsec VPN networking | 64             |
| L2TP VPN   | Yes            |
| L2TP VPN bandwidth                                 | 540 Mbps       |
| Maximum number of branches in L2TP VPN networking  | 64             |

## Software Specifications

| Model  | RG-EG310GH-P-E |
|--|----------------|
| OpenVPN  | Yes            |
| OpenVPN bandwidth  | 100 Mbps       |
| Maximum number of branches in OpenVPN networking               | 64             |
| PPTP VPN   | Yes            |
| PPTP VPN bandwidth   | 640 Mbps       |
| Maximum number of branches in PPTP VPN networking              | 64             |
| SSL VPN  | No             |
| Easy VPN 1.0   | No             |
| Number of VPN accounts for L2TP, PPTP, and OpenVPN             | 300            |
| WireGuard server   | Yes            |
| WireGuard client   | Yes            |
| WireGuard performance  | 300 Mbps       |
| Number of concurrent tunnels supported by the WireGuard server | 64             |
| WLAN   |                |
| Maximum number of APs (AC mode)                                | 500            |
| Maximum number of devices that can be managed                  | 128            |
| Wireless Intelligent Optimization (WIO)                        | Yes            |

## Package Contents

| Model                | RG-EG310GH-P-E                                 |
|----------------------|--|
| <b>Accessories</b>   |  |
| <b>Power adapter</b> | 1  |
| <b>Power cord</b>    | 1 x 1 m $\pm$ 50 mm (39.37 in. $\pm$ 1.97 in.) |
| <b>Rubber pad</b>    | 4  |
| <b>Manual</b>        |  |
| <b>User Manual</b>   | 1  |
| <b>Warranty Card</b> | 1  |

**Ruijie** | **Reyee**

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**Ruijie Networks Co., Ltd.**

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