

# RG-EG310GH-P-E

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



### Highlights

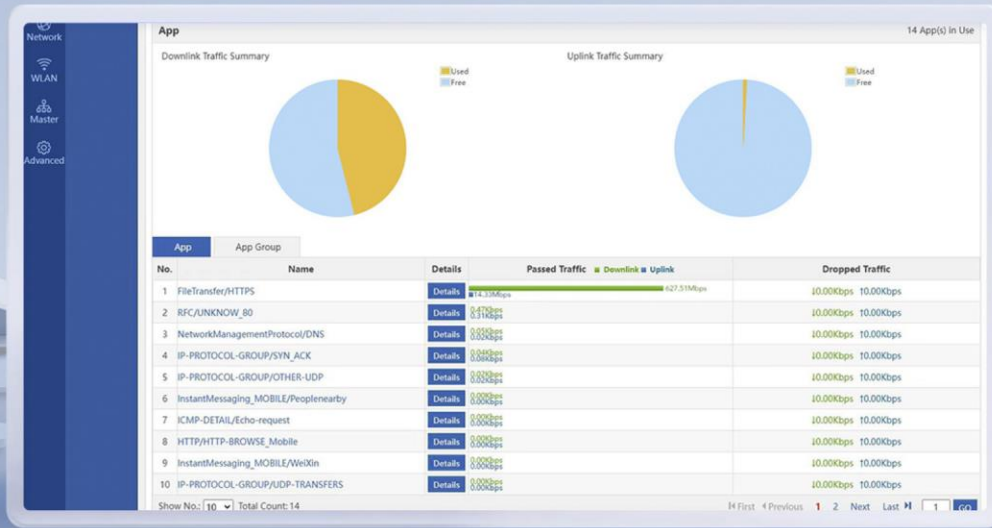
- 1.5 Gbps throughput, high-performance VPN router for office networks.
- Powerful VPN for branches and remote employees.
- Traffic visualization and monitoring.
- Efficient bandwidth management based on applications and users.
- Multi-WAN, intelligent load balancing.



# Highlight Features

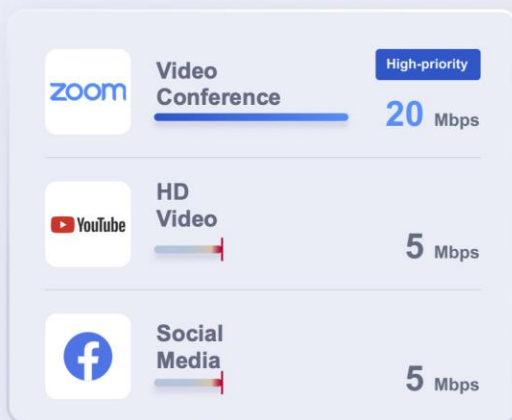
## Who is Eating Your Internet Speed?

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

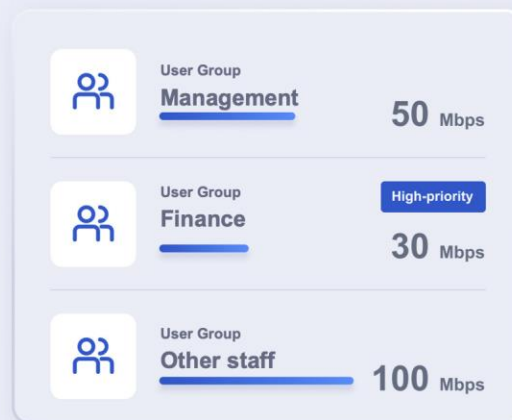


## New Efficient Way of Bandwidth Management

### Application Based Bandwidth Management



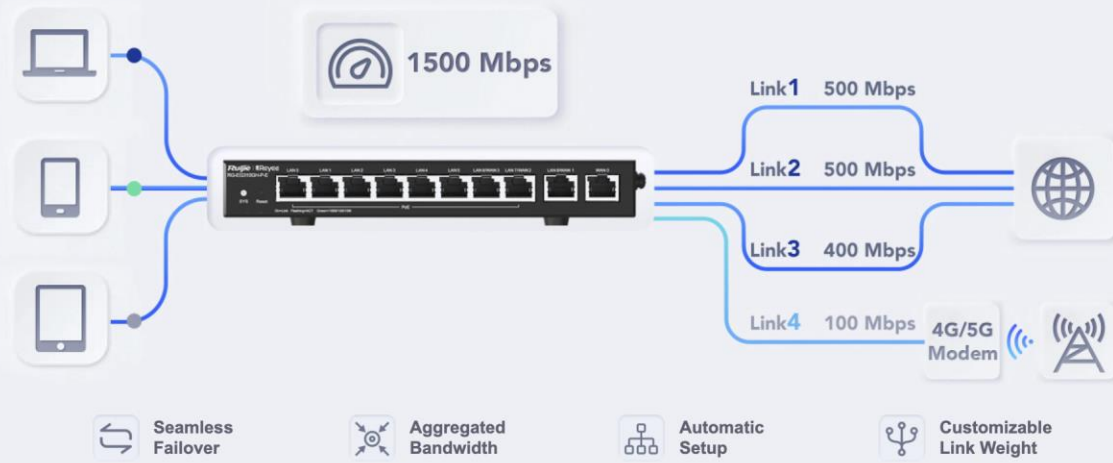
### User Based Bandwidth Management



# Highlight Features

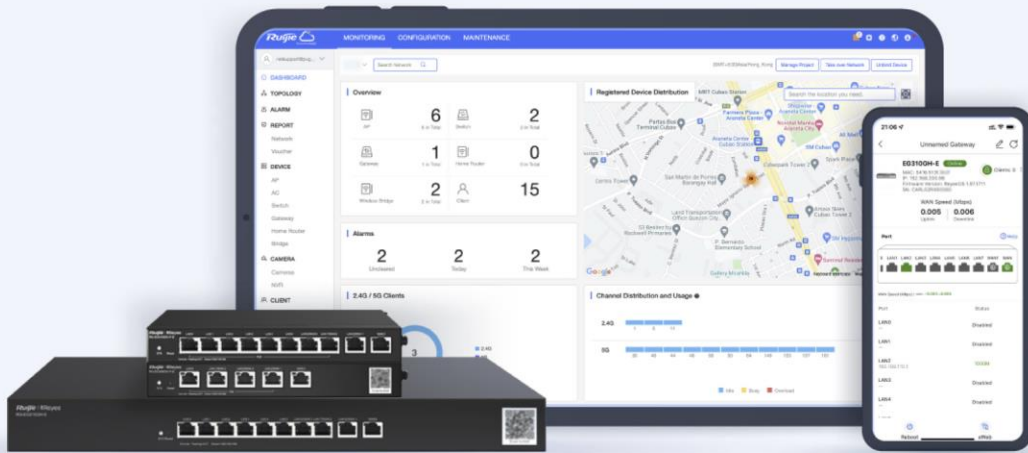
## Unbreakable Multi-WAN, Intelligent Load Balancing

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 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.) Inner diameter: 2.1 mm (0.08 in.) 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 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>	
<b>Maximum number of concurrent sessions</b>	100000
<b>Recommended number of concurrent clients</b>	350
<b>Throughput</b>	1500 Mbps
<b>Basic Configurations</b>	
<b>AC mode</b>	Yes
<b>Automatically identifying the Internet access mode and obtaining IP addresses</b>	Yes
<b>Automatically learning the PPPoE username and password of other routers</b>	Yes
<b>Configuration backup</b>	Yes
<b>Internet access mode</b>	Static IP address Static IPv6 address Dynamic IP address Dynamic IPv6 address PPPoE
<b>Local upgrade</b>	Yes
<b>Log upload</b>	Yes
<b>Online upgrade</b>	Yes
<b>Restoring factory defaults</b>	Yes
<b>System language</b>	English, Chinese, Turkish, Arabic, Vietnamese, Thai, Indonesian, Latin American Spanish, Brazilian Portuguese, Russian, French, German, European Spanish, Italian, and Polish
<b>Authentication</b>	
<b>Portal authentication</b>	Yes
<b>One-click authentication</b>	Yes
<b>Password authentication</b>	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
RADIUS flow control authorization	Yes
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
Multiple IP addresses on a WAN port	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

# Software Specifications

Model	RG-EG310GH-P-E
Application recognition	Yes
Behavior management	Yes
QoS	Yes
Time-based blocking policy 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	Yes
Bandwidth aggregation	Yes
BGP	Yes
BGP4	Yes
BGP4+	Yes
ECMP	No
IPv4 static route	Yes
IPv6 PBR	Yes
Route selection based on national address database	Yes
IPv6 static route	Yes
IS-ISv4	No
IS-ISv6	No

# Software Specifications

Model	RG-EG310GH-P-E
Load balancing based on flows	Yes
Load balancing based on source IP addresses	Yes
Load balancing based on the interface weight	Yes
Route selection by link quality	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

## Software Specifications

Model	RG-EG310GH-P-E
DNS client	Yes
DNS proxy	Yes
DNS server	Yes
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

# Software Specifications

Model	RG-EG310GH-P-E
FTP client (IPv4 address)	No
FTP server (IPv4 address)	No
TFTP client (IPv4 address)	Yes
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 Default Password: admin
Maximum number of managed devices (router mode)	AP and NBS series: 150 ES series: 128 Note: The maximum number of managed devices varies with each device series.
Maximum number of managed devices (AC mode)	AP and NBS series: 500 ES series: 128 Note: The maximum number of managed devices varies with each device series.
<b>Reliability</b>	
Stacking	No
VRRP	No
<b>SD-WAN</b>	
SD-WAN	Yes
SD-WAN performance	300 Mbps

# Software Specifications

Model	RG-EG310GH-P-E
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
Multi-WAN link bundling efficiency (lab data)	$\geq 80\%$
<b>Security</b>	
ACL	Yes
DHCP snooping	No
Malformed packet attack defense	Yes
Fragmentation attack defense	Yes
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 ACL	Yes
IP-MAC binding	Yes
Network sharing prevention	Yes
Security log	Yes
Security zone	Yes

## Software Specifications

Model	RG-EG310GH-P-E
User group-based connection limiting	Yes
<b>VPN</b>	
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
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
<b>WLAN</b>	

## Software Specifications

Model	RG-EG310GH-P-E
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

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**Ruijie Networks Co., Ltd.**

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