

# RG-EG310GH-E

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



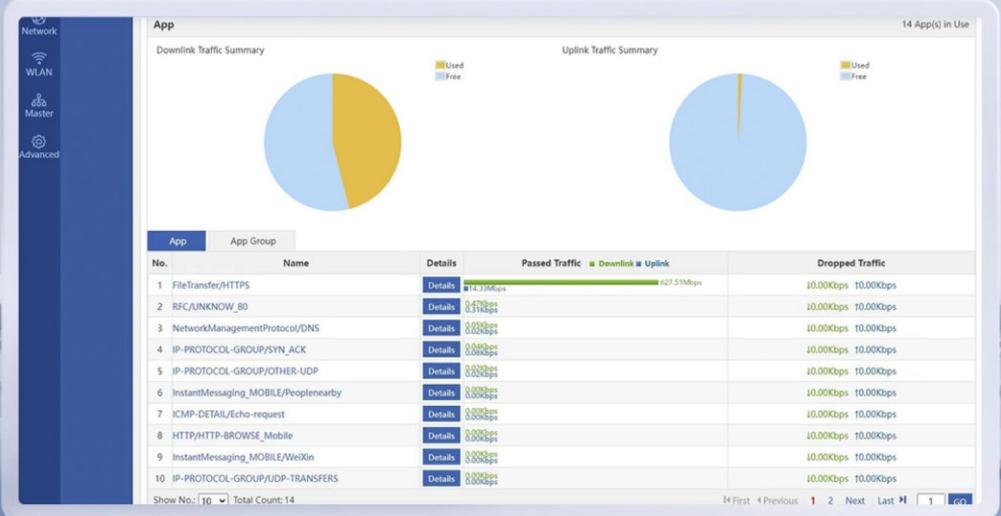
### Highlights

- 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

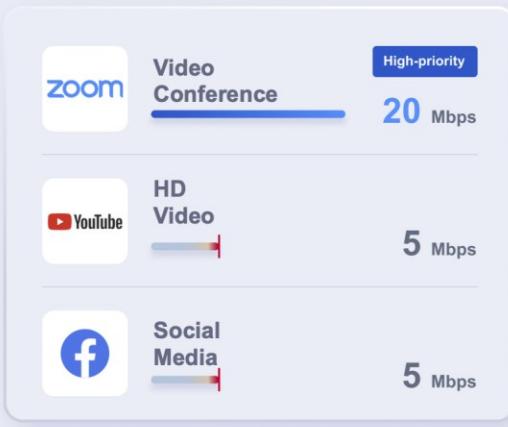


The dashboard displays traffic usage across 14 applications. The Downlink Traffic Summary shows a split between 'Used' (yellow) and 'Free' (blue). The Uplink Traffic Summary shows a very small amount of 'Used' traffic. The detailed list below shows the following data:

No.	Name	Details	Passed Traffic	Downlink	Uplink	Dropped Traffic
1	FileTransfer/HTTPS	Details	14.3Mbps	627.51Mbps		10.00Kbps 10.00Kbps
2	RFC/UNKNOW_80	Details	0.1Mbps			10.00Kbps 10.00Kbps
3	NetworkManagementProtocol/DNS	Details	0.1Mbps			10.00Kbps 10.00Kbps
4	IP-PROTOCOL-GROUP/SYN_ACK	Details	0.04Mbps			10.00Kbps 10.00Kbps
5	IP-PROTOCOL-GROUP/OTHER-UDP	Details	0.02Mbps			10.00Kbps 10.00Kbps
6	InstantMessaging_MOBILE/Peopleneaby	Details	0.00Mbps			10.00Kbps 10.00Kbps
7	ICMP-DETAIL/Echo-request	Details	0.00Mbps			10.00Kbps 10.00Kbps
8	HTTP/HTTP-BROWSE_Mobile	Details	0.00Mbps			10.00Kbps 10.00Kbps
9	InstantMessaging_MOBILE/WeiXin	Details	0.00Mbps			10.00Kbps 10.00Kbps
10	IP-PROTOCOL-GROUP/UDP-TRANSFERS	Details	0.00Mbps			10.00Kbps 10.00Kbps

## New Efficient Way of Bandwidth Management

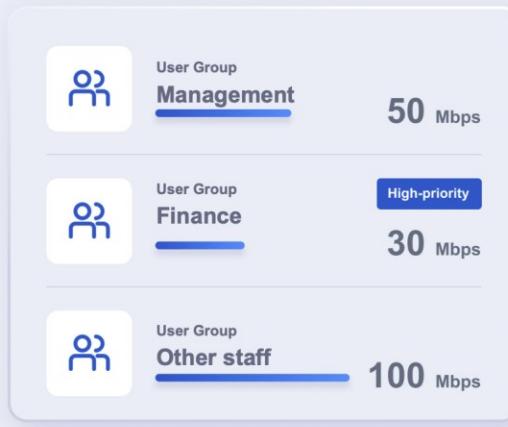
**Application Based Bandwidth Management**



The application-based bandwidth management section shows three applications with their assigned bandwidth and priority levels:

- Video Conference: 20 Mbps, High-priority
- HD Video: 5 Mbps
- Social Media: 5 Mbps

**User Based Bandwidth Management**



The user-based bandwidth management section shows three user groups with their assigned bandwidth and priority levels:

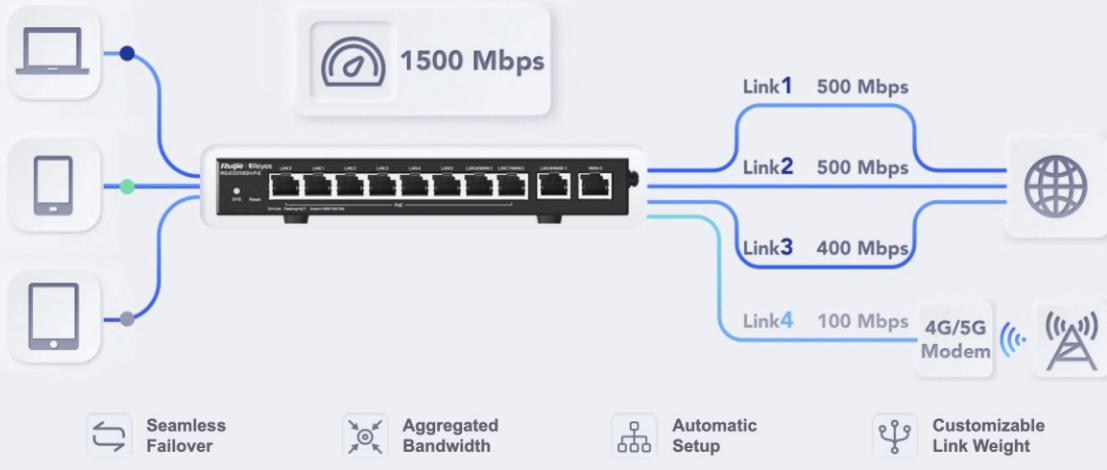
- User Group Management: 50 Mbps
- User Group Finance: 30 Mbps
- User Group Other staff: 100 Mbps

# Highlight Features

## Unbreakable Multi-WAN, Intelligent Load Balancing

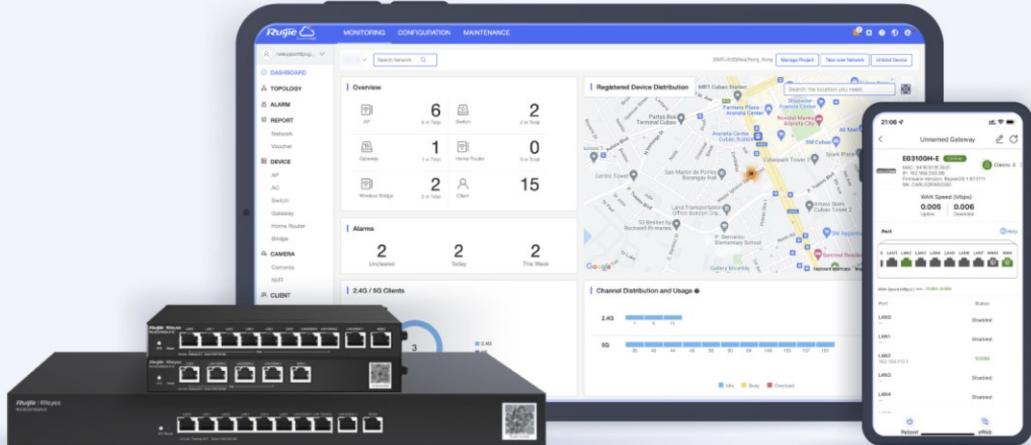
Supports load balancing, redundancy link, and source IP based PBR(Policy based routing).

Preventing login failures due to IP address changes for services such as e-banking.



## Cloud, Make Your Business Easy

- Reye 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-E
<strong>Port Specifications</strong>	
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
<strong>System Specifications</strong>	
CPU	Dual-core processor, 1.35 GHz clock frequency per core
Flash memory	256 MB
RAM	512 MB
<strong>Power Supply and Consumption</strong>	
Power supply	Fixed power supply
Maximum power consumption	25 W
<strong>Dimensions and Weight</strong>	
Package dimensions (W x D x H)	555 mm x 465 mm x 385 mm (21.85 in. x 18.31 in. x 15.16 in.)
Product dimensions (W x D x H)	440 mm x 200 mm x 43.6 mm (17.32 in. x 7.87 in. x 1.72 in.)
Shipping weight	3.2 kg (7.05 lbs)
Weight	2.4 kg (5.29 lbs)
<strong>Environment and Reliability</strong>	
Cooling	Natural cooling

# Hardware Specifications

Model	RG-EG310GH-E
<b>Fan</b>	Fanless design
<b>Mounting options</b>	Rack Note: The device occupies 1 U of the rack space.
<b>Operating humidity</b>	10% RH to 90% RH (non-condensing)
<b>Operating temperature</b>	0°C to 40°C (32°F to 104°F)
<b>Storage humidity</b>	5% RH to 95% RH (non-condensing)
<b>Storage temperature</b>	-40°C to +70°C (-40°F to +158°F)
<b>Surge protection</b>	Service port: ±4 kV for common mode Power connector: ±6 kV for common mode and ±6 kV for differential mode

# Software Specifications

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

# Software Specifications

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

# Software Specifications

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

# Software Specifications

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

# Software Specifications

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

# Software Specifications

Model	RG-EG310GH-E
<b>TFTP client (IPv4 address)</b>	Yes
<b>TFTP server (IPv4 address)</b>	No
<b>HTTPS login</b>	Yes
<b>NTP client</b>	Yes
<b>NTP server</b>	No
<b>Scheduled device restart</b>	Yes
<b>SNMPv1, v2c, and v3</b>	Yes
<b>SON</b>	Yes
<b>SSH</b>	No
<b>Telnet</b>	No
<b>Web login information</b>	Default IP Address: 192.168.110.1 Default Password: admin
<b>Maximum number of managed devices (router mode)</b>	AP and NBS series: 150 ES series: 128 Note: The maximum number of managed devices varies with each device series.
<b>Maximum number of managed devices (AC mode)</b>	AP and NBS series: 500 ES series: 128 Note: The maximum number of managed devices varies with each device series.
<b>Reliability</b>	
<b>Stacking</b>	No
<b>VRRP</b>	No
<b>SD-WAN</b>	
<b>SD-WAN</b>	Yes
<b>SD-WAN performance</b>	300 Mbps
<b>Number of tunnels supported by SD-WAN</b>	192
<b>Maximum number of SD-WAN branches</b>	64

# Software Specifications

Model	RG-EG310GH-E
<b>Active/Standby mode (automatically switching to the standby interface when the active interface fails)</b>	Yes
<b>Bypass networking for a device in AP mode</b>	No
<b>Centralized traffic forwarding policy</b>	Yes
<b>Multi-WAN link bundling efficiency (lab data)</b>	≥ 80%
<b>Security</b>	
<b>ACL</b>	Yes
<b>DHCP snooping</b>	No
<b>Malformed packet attack defense</b>	Yes
<b>Fragmentation attack defense</b>	No
<b>Teardrop attack defense</b>	Yes
<b>LAND attack defense</b>	Yes
<b>SYN flood attack defense</b>	Yes
<b>Smurf attack defense</b>	Yes
<b>IP attack defense</b>	Yes
<b>Disabling ping</b>	Yes
<b>Stateful firewall</b>	Yes
<b>IP-MAC binding</b>	Yes
<b>Network sharing prevention</b>	Yes
<b>Security log</b>	Yes
<b>Security zone</b>	Yes
<b>User group-based connection limiting</b>	Yes
<b>VPN</b>	

# Software Specifications

Model	RG-EG310GH-E
<b>IPsec VPN</b>	Yes
<b>IPsec VPN bandwidth</b>	170 Mbps
<b>Maximum number of branches in IPsec VPN networking</b>	64
<b>L2TP VPN</b>	Yes
<b>L2TP VPN bandwidth</b>	540 Mbps
<b>Maximum number of branches in L2TP VPN networking</b>	64
<b>OpenVPN</b>	Yes
<b>OpenVPN bandwidth</b>	100 Mbps
<b>Maximum number of branches in OpenVPN networking</b>	64
<b>PPTP VPN</b>	Yes
<b>PPTP VPN bandwidth</b>	640 Mbps
<b>Maximum number of branches in PPTP VPN networking</b>	64
<b>SSL VPN</b>	No
<b>Easy VPN 1.0</b>	No
<b>Number of VPN accounts for L2TP, PPTP, and OpenVPN</b>	300
<b>WireGuard server</b>	Yes
<b>WireGuard client</b>	Yes
<b>WireGuard performance</b>	300 Mbps
<b>Number of concurrent tunnels supported by the WireGuard server</b>	64
<b>WLAN</b>	
<b>Maximum number of APs (AC mode)</b>	500
<b>Maximum number of devices that can be managed</b>	128

## Software Specifications

Model	RG-EG310GH-E
Wireless Intelligent Optimization (WIO)	Yes

## Package Contents

Model	RG-EG310GH-E
<b>Accessories</b>	
<b>Rack-mount bracket</b>	2
<b>Power cord</b>	1 x 1.8 m (70.86 in.)
<b>Power cord retention clip</b>	1
<b>Rubber pad</b>	4
<b>Screw</b>	6 X M4 x 8 mm cross recessed countersunk head screws
<b>Manual</b>	
<b>User Manual</b>	1
<b>Warranty Card</b>	1

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