10 Port Gigabit Cloud-Managed Gateway Router, Up to 4 WAN Load Balanced (10x RJ45 GbE)

RG-EG310GH-E

The Ruijie Reyee RG-EG310GH-E is a high-performance cloud-managed office router delivering up to 1.5 Gbps throughput for networks with up to 350 recommended concurrent clients. Ten Gigabit Ethernet ports, including up to four WAN ports, enable flexible connectivity, intelligent load balancing and failover. Comprehensive VPN, SD-WAN, traffic management and security features provide reliable, controlled connectivity across offices, branches and remote users.



3-Year Manufacturer's Warranty
For full terms & conditions, please see – Ruijie Warranty T&Cs.

Features and Benefits

- Ten Gigabit Ethernet ports can provide up to four WAN or nine LAN connections, offering flexible deployment as network requirements evolve.
- Delivers up to 1.5 Gbps throughput and supports 350 recommended concurrent clients for reliable performance across busy office networks.
- Multi-WAN load balancing, bandwidth aggregation and automatic failover improve connection performance and help maintain business continuity.
- IPsec, L2TP, OpenVPN, PPTP, and WireGuard support provide secure connectivity for branch offices, remote workers, and off-site resources.
- Application recognition, QoS, bandwidth management and traffic auditing provide greater visibility and control over users and network resources.
- Ruijie Cloud and Reyee App management enable remote monitoring, configuration, diagnostics and maintenance from virtually anywhere.

Specifications

Hardware Specifications

Port Specifications

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

Power Supply and Consumption

Power supply	Fixed power supply
Maximum power consumption	25 W

System Specifications

CPU	Dual-core processor, 1.35 GHz clock frequency per core
Flash memory	256 MB
RAM	512 MB

Dimensions and Weight

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.)

Dimensions and Weight (continued)

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)

Environment and Reliability

Cooling	Natural cooling
Fan	Fanless design
Mounting options	Rack Note: The device occupies 1 U of the rack space.
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: ±6 kV for common mode and ±6 kV for differential mode

Software Specifications

Reliability

Stacking	No
VRRP	No

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
OpenVPN	Yes
OpenVPN bandwidth	100 Mbps

VPN (continued)

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

Gateway Features

WAN failover	Yes
Application priority	Yes
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

Network Management and Monitoring

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
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.

System Performance Capacity

Maximum number of concurrent sessions	100000
Recommended number of concurrent clients	350
Throughput	1500 Mbps (Turbo Mode) 1500 Mbps (Normal Mode)

Authentication

Portal authentication	Yes
One-click authentication	Yes
Password authentication	Yes
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

Authentication (continued)

RADIUS flow control authorization supported by WISPr authentication	Yes
Number of concurrent clients supported by the PPPoE server	128
RADIUS flow control authorization supported by PPPoE authentication	Yes
PAP	Yes
RADIUS authentication	Yes
RADIUS client	Yes
RADIUS accounting based on time or traffic	Yes
RADIUS proxy server	Yes
RADIUS traffic quota authorization	Yes
RADIUS user group authorization	Yes
Third-party authentication	Yes

Ethernet Interface

Avoiding IP address conflicts on WAN interfaces	Yes
Multiple IP addresses on a WAN port	Yes
Sub-interface	Yes
Load balancing	Yes
MAC address cloning	Yes
Multiple WAN interfaces on the same network segment	Yes
PPPoE clients	Yes

Ethernet Interface (continued)

Scheduled PPPoE reconnection	No

Security

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
User group-based connection limiting	Yes

Ethernet Switching

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	Yes
VLAN priority	Yes

IP Routing

Application-based routing	Yes
Bandwidth aggregation	Yes

IP Routing (continued)

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
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

SD-WAN

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
Tunnel bandwidth test	Yes

SD-WAN (continued)

Bypass networking for a device in AP mode	No
Centralized traffic forwarding policy	Yes
Multi-WAN bandwidth aggregation efficiency (lab data)	≥ 80%

Basic Configurations

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 Static IPv6 address Dynamic IP address Dynamic IPv6 address PPPoE
Local upgrade	Yes
Log upload	Yes
Online upgrade	Yes
Restoring factory defaults	Yes
System language	English, Chinese, Turkish, Arabic, Vietnamese, Thai, Indonesian, Latin American Spanish, Brazilian Portuguese, Russian, French, German, European Spanish, Italian, and Polish

WLAN

Wireless Intelligent Optimization (WIO)	Yes

IP Service

3322.org	Yes

IP Service (continued)

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
Turbo mode	yes
NAT loopback	Yes
DNS client	Yes
DNS proxy	Yes
DNS server	Yes
DNS blocklist or allowlist	Yes
Maximum number of domains supported by a DNS blocklist or allowlist	2000
Maximum number of policies supported by a DNS blocklist or allowlist	10
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
Number of sub-interfaces configured on a WAN port	16

Package Contents

Manual

User Manual	1
Warranty Card	1

Accessories

Rack-mount bracket	2
Power cord	1 x 1.8 m (70.86 in.)
Power cord retention clip	1
Rubber pad	4
Screw	6 X M4 x 8 mm cross recessed countersunk head screws