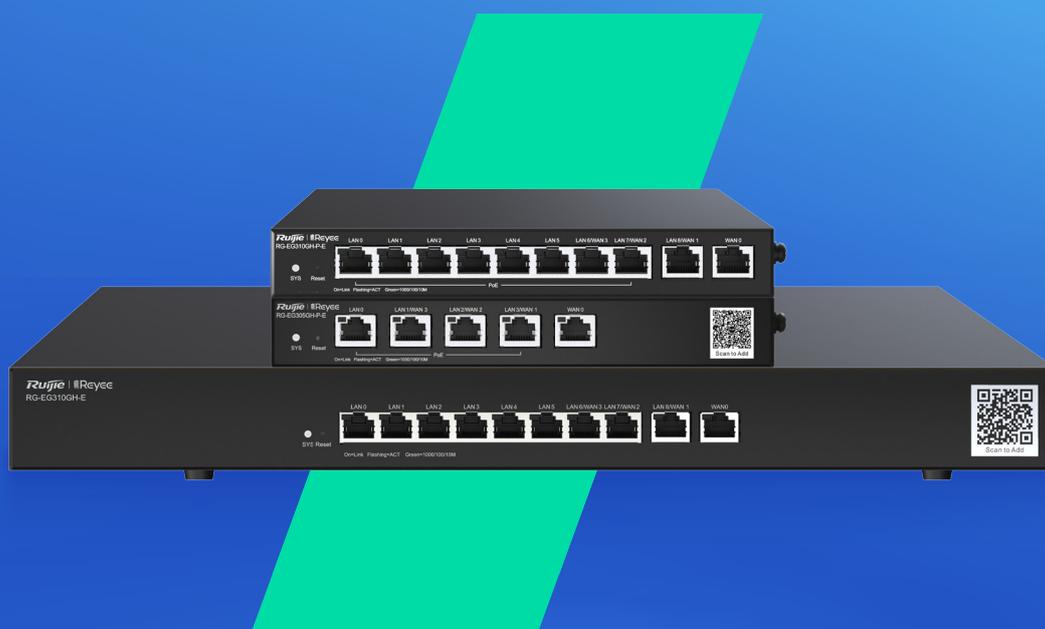


# RG-EG300GH-E Series

## Reyee 5/10-Port High Performance Cloud Managed Office Router

DATASHEET



### Highlights

- High-performance router for office network
- Provide powerful VPN for branches and remote workers
- Provide traffic visualization monitoring, everything in a glance
- New efficient way of bandwidth management based on application and user
- Unbreakable multi-WAN, intelligent load balancing

# Highlight Features

## High-performance VPN Router for Office Network

RG-EG100 Series

600 Mbps

↑ 256%

RG-EG300 Series

1.5 Gbps



300  
Concurrent Clients



Max. 4  
WAN Ports



64  
VPN Tunnels

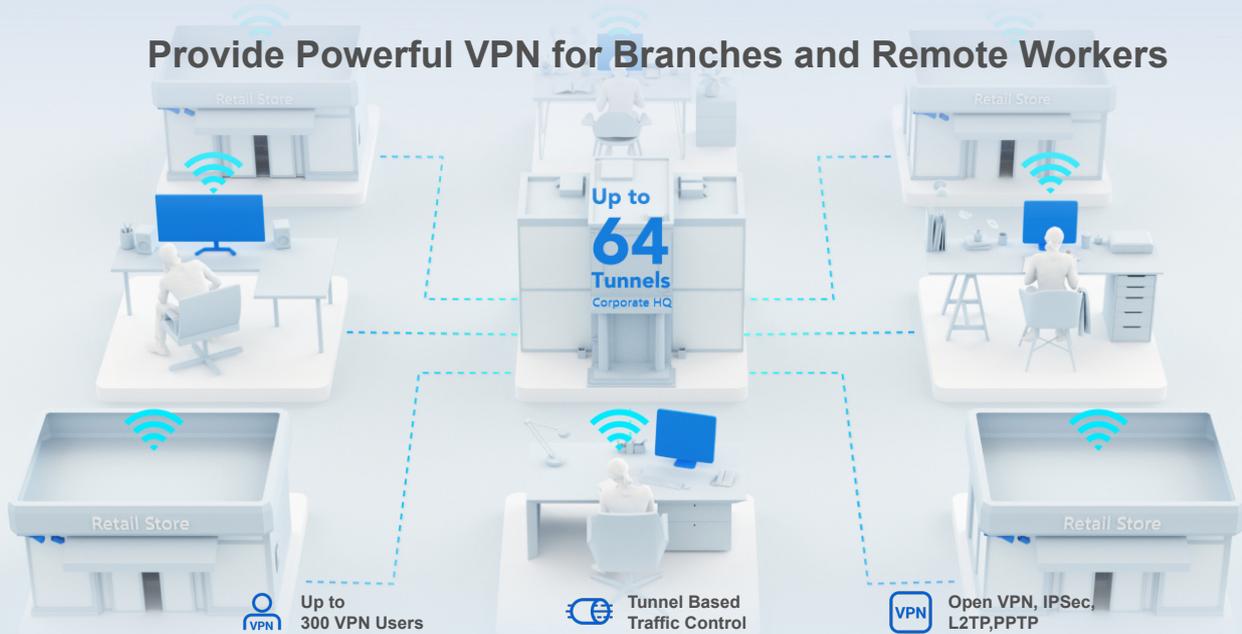


Load  
Balancing



Free Cloud  
Management

## Provide Powerful VPN for Branches and Remote Workers



Up to  
300 VPN Users



Tunnel Based  
Traffic Control

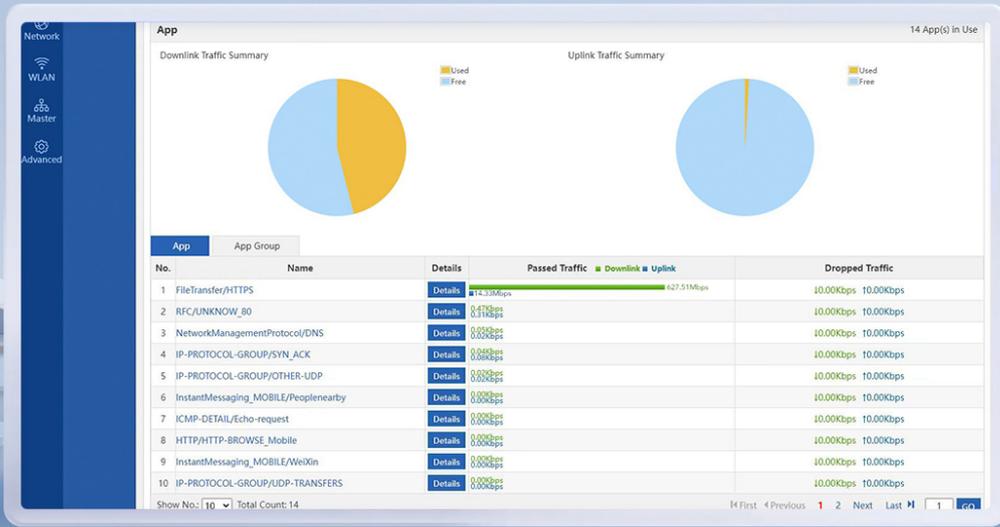


Open VPN, IPSec,  
L2TP, PPTP

# 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

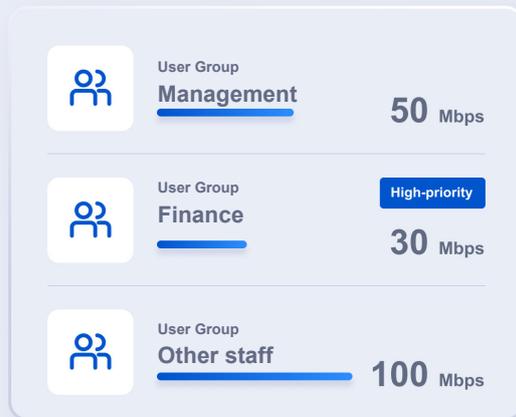


## New Efficient Way of Bandwidth Management

### Application Based Bandwidth Management



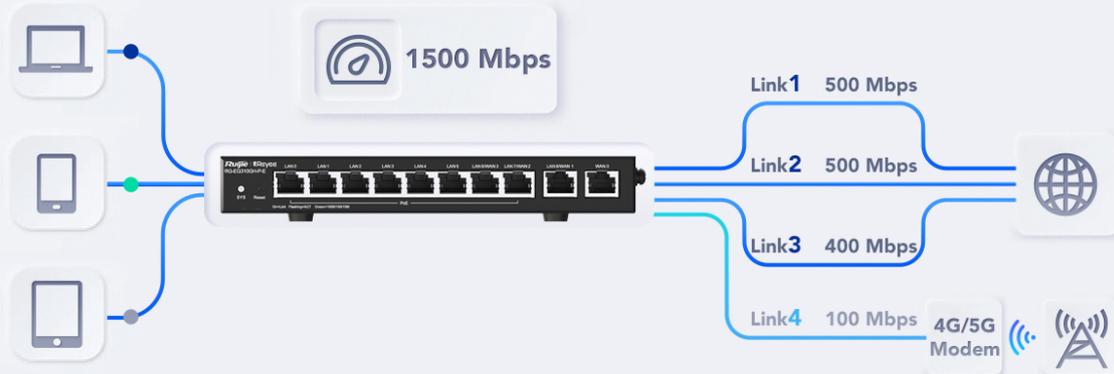
### User Based Bandwidth Management



# 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.



Seamless Failover



Aggregated Bandwidth



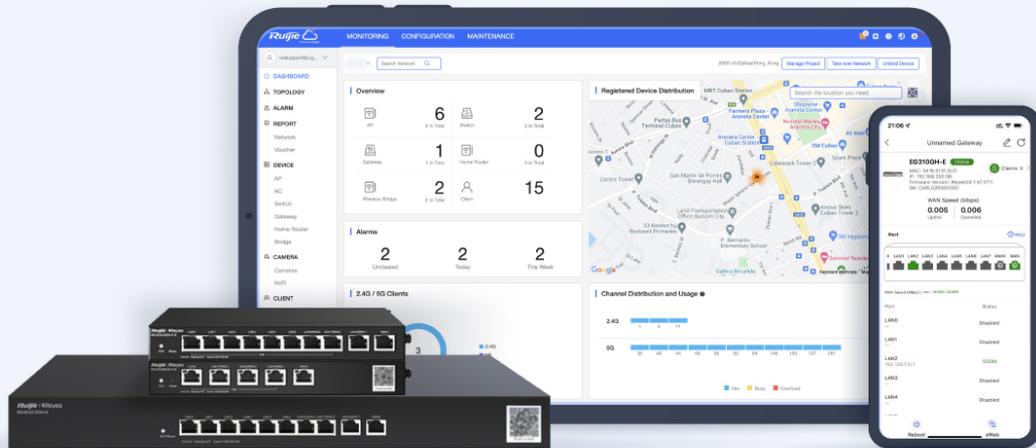
Automatic Setup



Customizable Link Weight

## 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



# Specifications

Model	RG-EG305GH-P-E	RG-EG310GH-E	RG-EG310GH-P-E
<b>Basic</b>			
Number of Fixed WAN Ports	1	1	1
Number of Fixed LAN Ports	1	6	6
Number of WAN Ports	4	4	4
Number of LAN Ports	4	9	9
WAN Port Rate	1x10/100/1000BASE-T Ports	1x10/100/1000BASE-T Ports	1x10/100/1000BASE-T Ports
LAN Port Rate	4x10/100/1000BASE-T Ports	9x10/100/1000BASE-T Ports	9x10/100/1000BASE-T Ports
Number of LAN/WAN Ports	3	3	3
Number of 10/100/1000BASE-T Ports	5	10	10
Number of 10/100/1000/2500BASE-T Ports	N/A	N/A	N/A
Number of 100/1000/2.5G/5G/10GBASE-T Ethernet port	N/A	N/A	N/A
Number of 1 Gbps Optical Ports (SFP)	N/A	N/A	N/A
Number of 10 Gbps Optical Ports (SFP+)	N/A	N/A	N/A
Total Number of RJ45 Ports	5	10	10
Total Number of Optical Ports	N/A	N/A	N/A
Management Port	N/A	N/A	N/A
PoE	Support AT/AF, 4 LAN ports support PoE, MAX 60W	N/A	Support AT/AF, 8 LAN ports support PoE, MAX 110W
PoE Standard	IEEE802.3af, IEEE802.3at	N/A	IEEE802.3af, IEEE802.3at
Max. PoE Power Budget	60W	N/A	110W
Max. Number of PoE Ports	4	N/A	8
Max. Power Output per PoE Port	30W	N/A	30W
Dimensions (W x D x H)	202mm x 108mm x 28mm	440mm x 200mm x 43.6mm	202mm x 108mm x 28mm
Net Weight	1.2Kg	2.4Kg	1.50Kg
<b>Hardware Specifications</b>			

Model	RG-EG305GH-P-E	RG-EG310GH-E	RG-EG310GH-P-E
Flash Memory	256MB	256MB	256MB
SDRAM	512MB	512MB	512MB
CPU	1.35GHz*2	1.35GHz*2	1.35GHz*2
Mounting	Desk-type	1U rack-type	Desk-type
LEDs	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green)	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green)	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green)
Reset Buttons	Yes	Yes	Yes
DC Power Connector Size	Outer Diameter: 6.0 mm Inner Diameter: 2.0 mm Length: 10 mm	N/A	Outer Diameter: 6.0 mm Inner Diameter: 2.0 mm Length: 10 mm
Cooling	Natural cooling	Natural cooling	Natural cooling
Number of Fans	Fanless	Fanless	Fanless
Airflow	N/A	N/A	N/A
Fan Status Monitoring	N/A	N/A	N/A
Operating Temperature	0~40℃	0~40℃	0~40℃
Storage Temperature	-40~70℃	-40~70℃	-40~70℃
Operating Humidity	10%~90%(non-condensing)	10%~90%(non-condensing)	10%~90%(non-condensing)
Storage Humidity	5%~95%(non-condensing)	5%~95%(non-condensing)	5%~95%(non-condensing)
IP Rating	N/A	N/A	N/A
Power Supply Surge Protection	Common Mode: ±6KV Differential mode: ±6KV	Common Mode: ±6KV Differential mode: ±6KV	Common Mode: ±4KV Differential mode: ±4KV
Port Surge Protection	Common Mode: ±4KV	Common Mode: ±4KV	Common Mode: ±4KV
Recommended Concurrent Clients	350	350	350
Hard Disk Drive	N/A	N/A	N/A
USB	N/A	N/A	N/A
Max. Power Consumption	<80W	<25W	<130W
PoE	Support AT/AF, 4 LAN ports support PoE, MAX 60W	N/A	Support AT/AF, 8 LAN ports support PoE, MAX 110W
Max. PoE Power Budget	60W	N/A	110W

Model	RG-EG305GH-P-E	RG-EG310GH-E	RG-EG310GH-P-E
Max. Number of PoE Ports	4	N/A	8
Max. Power Output per PoE Port	30W	N/A	30W
PoE Power Pins	1 2+,3 6-	N/A	1 2+,3 6-
Power Supply	<p>AC input</p> <p>Rated voltage range: 100V to 240V</p> <p>Maximum voltage range: 90V to 264V</p> <p>Frequency: 50/60 Hz</p> <p>Rated current: 1.5A</p> <p>Adapter output</p> <p>Rated voltage range: 54V DC</p> <p>Rated current range: 1.48A</p>	<p>Rated voltage range: 100-240VAC</p> <p>Maximum voltage range: 90-264VAC</p> <p>Frequency: 50/60Hz</p> <p>Rated current: 0.6A</p>	<p>AC input</p> <p>Rated voltage range: 100V to 240V</p> <p>Maximum voltage range: 90V to 264V</p> <p>Frequency: 50/60 Hz</p> <p>Rated current: 2.5A</p> <p>Adapter output</p> <p>Rated voltage range: 54V DC</p> <p>Rated current range: 2.4A</p>
Internet Connection Type	<p>PPPoE</p> <p>DHCP</p> <p>Static IP</p>	<p>PPPoE</p> <p>DHCP</p> <p>Static IP</p>	<p>PPPoE</p> <p>DHCP</p> <p>Static IP</p>
Access Mode Auto Detection	Yes	Yes	Yes
<b>Software Specifications</b>			
PPPoE Username and Password Learning	Yes	Yes	Yes
Throughput	1500Mbps	1500Mbps	1500Mbps
PPPoE Client	Yes	Yes	Yes
PPPoE Server	Yes	Yes	Yes
Max. Number of PPPoE Accounts	300	300	300
PPPoE Concurrent Connection Limit	128	128	128
IP Address Routing based by ISP	No	No	No
WAN IP Conflict Avoidance	Yes	Yes	Yes
MAC Address Cloning	Yes	Yes	Yes
VLAN	Yes	Yes	Yes
Max. Number of VLANs	64	64	64

Model	RG-EG305GH-P-E	RG-EG310GH-E	RG-EG310GH-P-E
Port-based VLAN	Yes	Yes	Yes
Super VLAN	No	No	No
VLAN Priority	Yes	Yes	Yes
Bandwidth Aggregation	Yes	Yes	Yes
default with Multi VLAN	No	No	No
In-Room Screen Sharing	No	No	No
Port Mapping	Yes	Yes	Yes
Number of Port Mapping Rule	512	512	512
NAT Loopback	Yes	Yes	Yes
Link Aggregation	No	No	No
LAN Link Aggregation	No	No	No
AC Mode	Yes	Yes	Yes
Behavior Management	Yes	Yes	Yes
Cloud Print	Yes	Yes	Yes
Application Identification	Yes	Yes	Yes
Application Priority	Yes	Yes	Yes
Application Cache	No	No	No
Application Control ( Yes Time/IP-based Policy)	Yes	Yes	Yes
Traffic Audit	Yes	Yes	Yes
Anti Network Sharing(Modify TTL)	Yes	Yes	Yes
Network-wide Client Management	Yes	Yes	Yes
Network Supervision	No	No	No
Log Retention	No	No	No
Log Audit	Yes	Yes	Yes
Log Upload	Yes	Yes	Yes
Log Server	Yes	Yes	Yes
Maintenance and Fault Diagnosis	Yes	Yes	Yes

Model	RG-EG305GH-P-E	RG-EG310GH-E	RG-EG310GH-P-E
Web Authentication	No	No	No
SMS Authentication	Yes	Yes	Yes
Password-based Authentication	Yes	Yes	Yes
Portal Authentication	Yes	Yes	Yes
802.1X	Yes	Yes	Yes
One-Click Authentication	Yes	Yes	Yes
Local Portal Authentication	Yes	Yes	Yes
Voucher Authentication on Ruijie Cloud	Yes	Yes	Yes
Local Mode of Authentication on Ruijie Cloud	Yes	Yes	Yes
Custom Portal	Yes	Yes	Yes
RADIUS Client	Yes	Yes	Yes
RADIUS Proxy	Yes	Yes	Yes
Support Authentication Via Radius	Yes	Yes	Yes
Support duration/traffic Accounting Via Radius	Yes	Yes	Yes
Support Flowctrl Authorization Via Radius	Yes	Yes	Yes
Support User Group Authorization Via Radius	Yes	Yes	Yes
Support duration/traffic quota Via Radius	Yes	Yes	Yes
Support PAP Authentication	Yes	Yes	Yes
Support CHAP/MS-CHAPV1/MS-CHAPV2 Authentication	Yes	Yes	Yes
Support MAC Authentication for Radius	Yes	Yes	Yes
Third-Party API Integration	Yes	Yes	Yes
IPTV	Yes	Yes	Yes

Model	RG-EG305GH-P-E	RG-EG310GH-E	RG-EG310GH-P-E
L2TP VPN	Yes	Yes	Yes
PPTP VPN	Yes	Yes	Yes
IPsec VPN	Yes	Yes	Yes
OpenVPN	Yes	Yes	Yes
Number of Universal VPN Accounts for L2TP, PPTP, and OpenVPN	300	300	300
IPSec VPN Performance (bi-direction, Typical Packets) IPV4	230Mbps	230Mbps	230Mbps
L2TP VPN Performance (bi-direction, Typical Packets)	640Mbps	640Mbps	640Mbps
PPTP VPN Performance (bi-direction, Typical Packets)	640Mbps	640Mbps	640Mbps
OPENVPN Performance (bi-direction, Typical Packets)	100Mbps	100Mbps	100Mbps
Number of IPsec VPN Tunnels	64	64	64
Number of OpenVPN Tunnels	64	64	64
Number of L2TP VPN Tunnels	64	64	64
Number of PPTP VPN Tunnels	64	64	64
VPN HQ/Branch Interconnection	Yes	Yes	Yes
EasyVPN 1.0	No	No	No
Number of EasyVPN Tunnels	N/A	N/A	N/A
SSL VPN	N/A	N/A	N/A
Number of SSL VPN Tunnels	N/A	N/A	N/A
RIPng	Yes	Yes	Yes
RIP	Yes	Yes	Yes
OSPFv2	Yes	Yes	Yes
OSPFv3	Yes	Yes	Yes
WAN Failover	Yes	Yes	Yes
Static Routing	Yes	Yes	Yes

Model	RG-EG305GH-P-E	RG-EG310GH-E	RG-EG310GH-P-E
Equal Cost Multi-Path Routing	N/A	N/A	N/A
Policy-Based Routing (PBR)	Yes	Yes	Yes
Interface Active/Standby Switchover	Yes	Yes	Yes
WAN Load Balancing	Yes	Yes	Yes
IP-based Load Balancing	Yes	Yes	Yes
Session-based Load Balancing	Yes	Yes	Yes
Real-Time Load-based Load Balancing	Yes	Yes	Yes
DHCP Server	Yes	Yes	Yes
DHCP Client	Yes	Yes	Yes
DHCP Snooping	N/A	N/A	N/A
DHCP Relay	N/A	N/A	N/A
DNS Client	Yes	Yes	Yes
DNS Server	Yes	Yes	Yes
DNS Proxy	Yes	Yes	Yes
NTP Client	Yes	Yes	Yes
Oray DDNS	N/A	N/A	N/A
DynDNS	Yes	Yes	Yes
No-IP DDNS	Yes	Yes	Yes
Ruijie DDNS	Yes	Yes	Yes
3322 DDNS	Yes	Yes	Yes
Aliyun DDNS	Yes	Yes	Yes
Cloudflare	Yes	Yes	Yes
NAT	Yes	Yes	Yes
NAPT	Yes	Yes	Yes
UPnP	Yes	Yes	Yes
SNMP	Yes	Yes	Yes
ACL	Yes	Yes	Yes
Time-based ACL	Yes	Yes	Yes

Model	RG-EG305GH-P-E	RG-EG310GH-E	RG-EG310GH-P-E
IPv6 ACL	Yes	Yes	Yes
Block LAN/WAN Ping	Yes	Yes	Yes
IP-MAC Binding	Yes	Yes	Yes
MAC Address Filtering	Yes	Yes	Yes
Session Limit	Yes	Yes	Yes
Fraggle Attack Defense	Yes	Yes	Yes
Teardrop Attack Defense	Yes	Yes	Yes
Malformed Packet Attack Defense	Yes	Yes	Yes
Land Attack Defense	Yes	Yes	Yes
Smurf Attack Defense	Yes	Yes	Yes
SYN Flood Attack Defense	Yes	Yes	Yes
Security Zone	Yes	Yes	Yes
Security Logs	Yes	Yes	Yes
Upgrade via App	Yes	Yes	Yes
Reboot via App	Yes	Yes	Yes
Scheduled Reboot	Yes	Yes	Yes
HTTPS Login	Yes	Yes	Yes
Upgrade via eWeb	Yes	Yes	Yes
Upgrade via Ruijie Cloud	Yes	Yes	Yes
Configuration Backup	Yes	Yes	Yes
Factory Reset	Yes	Yes	Yes
Language	Yes	Yes	Yes
Self-Organizing Network (SON)	Yes	Yes	Yes
Device Management	Yes	Yes	Yes
No. of Devices Managed in Router Mode	150	150	150
No. of Devices Managed in AC Mode	500	500	500
Wireless Intelligent	Yes	Yes	Yes

Model	RG-EG305GH-P-E	RG-EG310GH-E	RG-EG310GH-P-E
<b>Optimization (WIO)</b>			
<b>Flow Control</b>	Yes	Yes	Yes
<b>NAT ALG</b>	Yes	Yes	Yes
<b>anyIP</b>	N/A	N/A	N/A
<b>Remote Check on App</b>	Yes	Yes	Yes
<b>ARP Table Size</b>	1024	1024	1024
<b>ARP Binding</b>	Yes	Yes	Yes
<b>Ping</b>	Yes	Yes	Yes
<b>Blocklist and Allowlist</b>	Yes	Yes	Yes
<b>WAN/LAN Conversion</b>	Yes	Yes	Yes
<b>Link Detection</b>	Yes	Yes	Yes
<b>Multi WAN with same subnet</b>	Yes	Yes	Yes
<b>Max. Number of Concurrent Connections</b>	100000	100000	100000
<b>SIP ALG</b>	Yes	Yes	Yes
<b>SD-WAN</b>	Yes	Yes	Yes
<b>Number of SD-WAN Tunnels</b>	192	192	192
<b>Number of branches supported by SD-WAN</b>	64	64	64
<b>SD-WAN performance</b>	300Mbps	300Mbps	300Mbps
<b>IPv6</b>	Yes	Yes	Yes
<b>App Management</b>	Yes	Yes	Yes
<b>Web Management</b>	Yes	Yes	Yes
<b>Ruijie Cloud Management</b>	Yes	Yes	Yes
<b>Stateful Firewall</b>	Yes	Yes	Yes
<b>Website filtering</b>	Yes	Yes	Yes
<b>Website Auditing</b>	Yes	Yes	Yes
<b>Package Contents</b>			
<b>Power Adapter</b>	Yes	N/A	Yes
<b>Mounting Brackets</b>	Wall-mount and Desk-type	Rack installation	Wall-mount and Desk-type

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