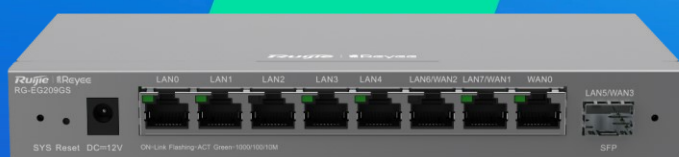


# RG-EG209GS

## Reyee 9-Port Gigabit Cloud Managed SFP Router



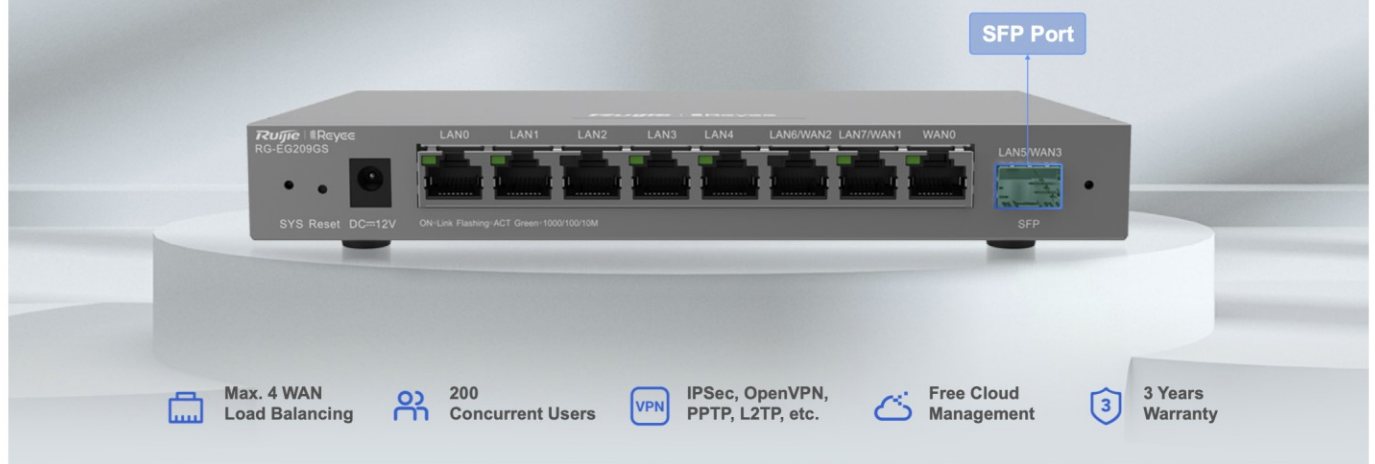
### Highlights

- LAN/WAN switchable SFP port for adding optical fiber connectivity.
- User-friendly configuration and ease of use.
- Intelligent load balancing and link redundancy between multiple WAN ports.
- Efficient bandwidth management based on applications and users.
- Customized portal page, what you see is what you get.

## Highlight Features

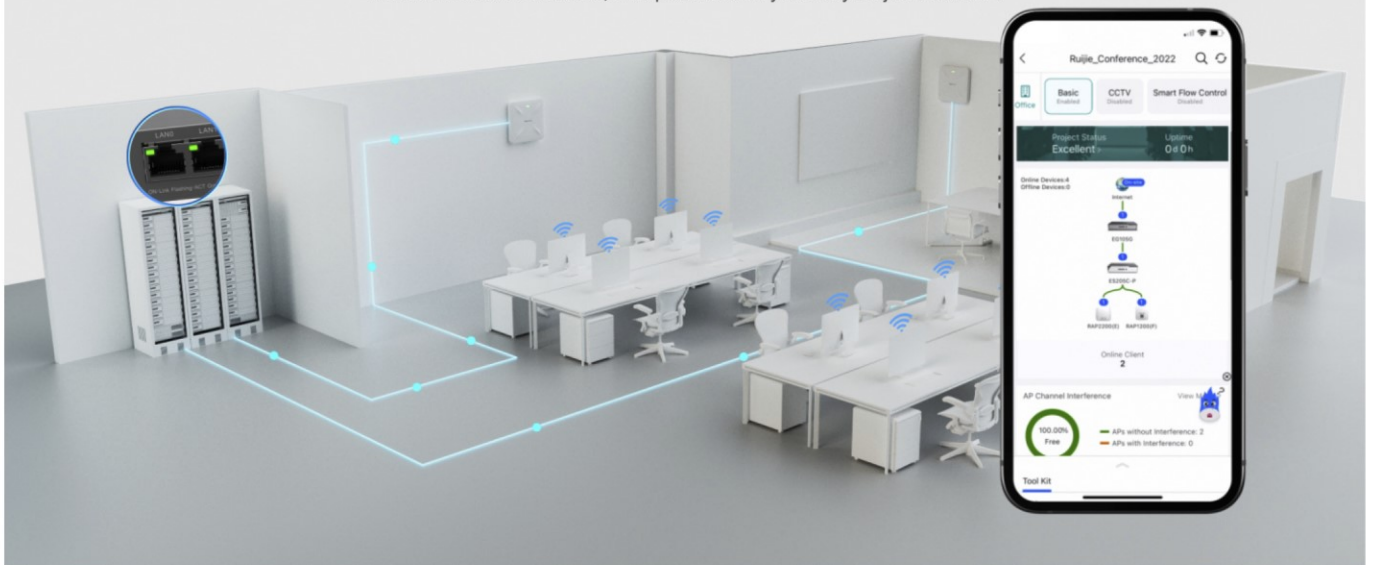
### Simplified and Powerful

LAN/WAN switchable SFP port for adding optical fiber connectivity.



### User Friendly Configuration, Easy to Learn

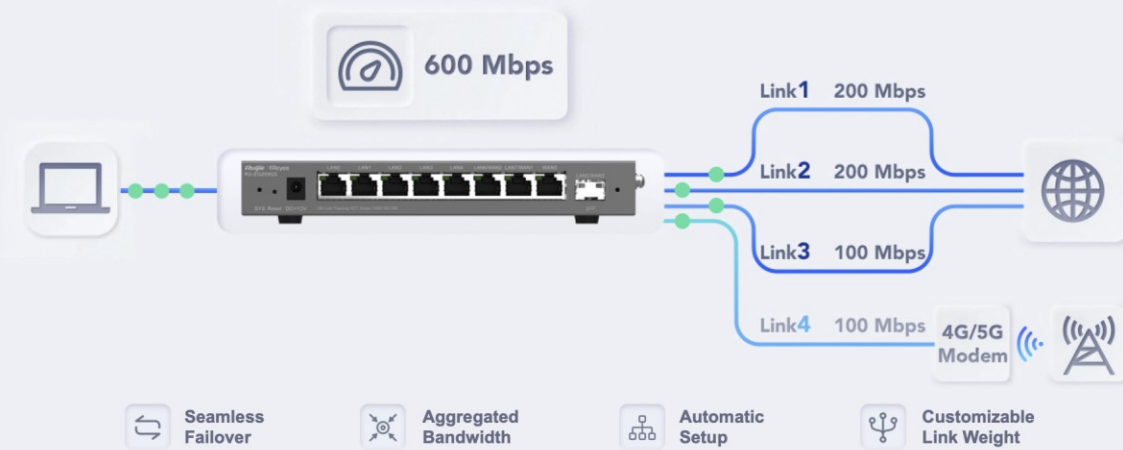
Even for advanced functions, set-up can be easily done by Ruijie Cloud APP.



## Highlight Features

### Unbreakable Multi-WAN Internet

Intelligent load balancing and link redundancy between multiple WAN ports

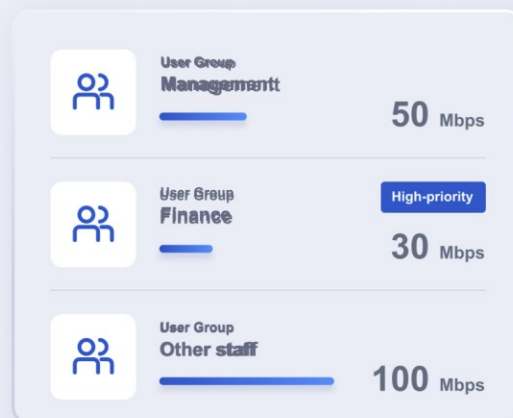


### New Efficient Way of Bandwidth Management

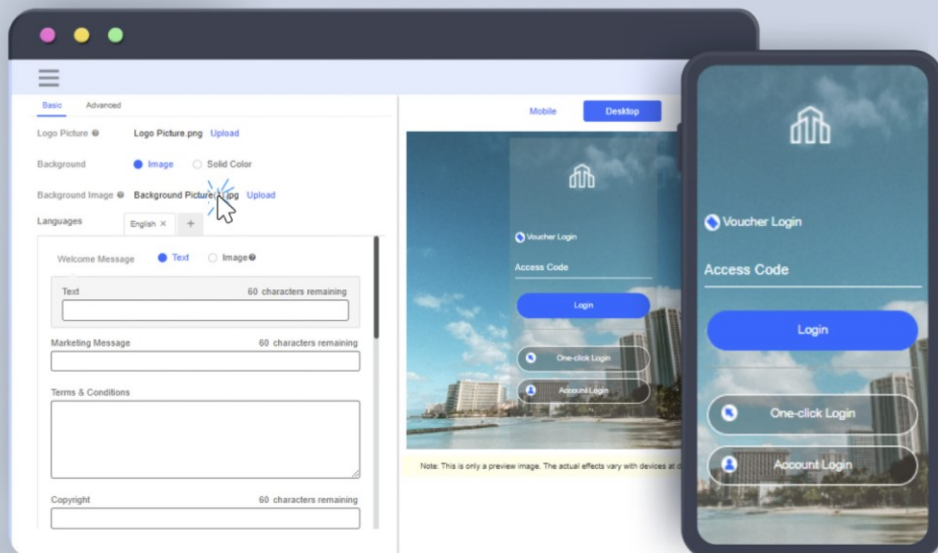
#### Application Based Bandwidth Management



#### User Based Bandwidth Management



### Customize Portal Page, What You See is What You Get



## Highlight Features

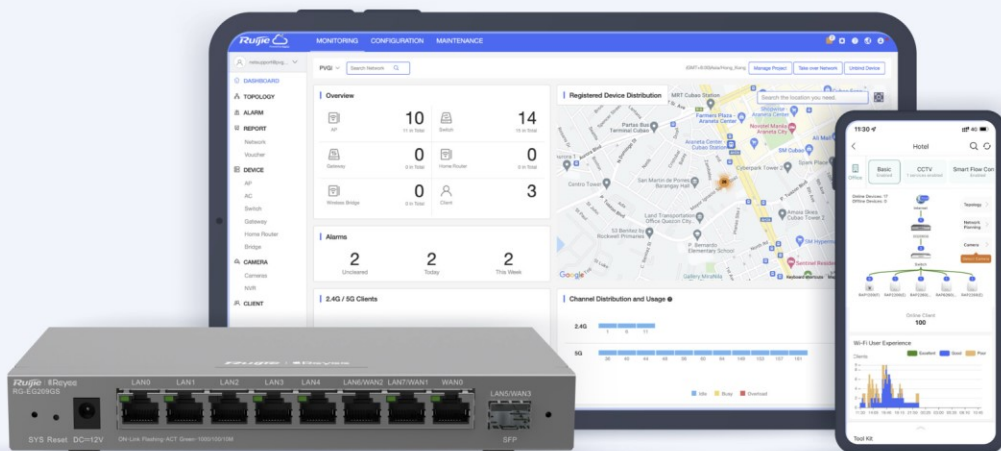
### Secure Access Internal Device Remotely

No matter dynamic or even private IP on gateway WAN port,  
Securely monitoring the NVR/IPC/Internal Server anytime from anywhere .



### Cloud, Make Your Business Easy

- Self-organizing Network
- Centralized Network Management
- Scenario Based Configuration
- Cloud Portal Authentication
- Remote Monitoring and Maintenance



# Hardware Specifications

| Model                          | RG-EG209GS                                                   |
|--------------------------------|--------------------------------------------------------------|
| Dimensions and Weight          |                                                              |
| Package dimensions (W x D x H) | 610 mm x 370 mm x 335 mm (24.02 in. x 14.57 in. x 13.19 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                | 1.05 kg (2.31 lbs)                                           |
| Weight                         | 0.98 kg (2.16 lbs)                                           |
| Power Supply and Consumption   |                                                              |
| 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      | 18 W                                                         |
| Environment and Reliability    |                                                              |
| 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)                             |

# Hardware Specifications

| Model                             | RG-EG209GS                                                                                                                   |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Surge protection                  | Service port: $\pm 4$ kV for common mode<br>Power connector: $\pm 4$ kV for common mode and $\pm 4$ kV for differential mode |
| Port Specifications               |                                                                                                                              |
| Total number of optical ports     | 1                                                                                                                            |
| Total number of RJ45 ports        | 8                                                                                                                            |
| Number of 10/100/1000BASE-T ports | 8                                                                                                                            |
| Number of 1GE SFP ports           | 1                                                                                                                            |
| Maximum number of LAN ports       | 8                                                                                                                            |
| Maximum number of WAN ports       | 4                                                                                                                            |
| Number of fixed LAN ports         | 5                                                                                                                            |
| Number of fixed WAN ports         | 1                                                                                                                            |
| Number of LAN/WAN ports           | 3                                                                                                                            |
| LEDs                              | 1 x system status LED<br>9 x Ethernet port LEDs                                                                              |
| Reset button                      | 1                                                                                                                            |
| System Specifications             |                                                                                                                              |
| CPU                               | Dual-core processor, 880 MHz clock frequency per core                                                                        |
| Flash memory                      | 32 MB                                                                                                                        |
| RAM                               | 256 MB                                                                                                                       |

# Software Specifications

| Model                                                              | RG-EG209GS |
|--------------------------------------------------------------------|------------|
| 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        |

# Software Specifications

| Model                                                      | RG-EG209GS |
|------------------------------------------------------------|------------|
| Number of accounts supported by the PPPoE server           | 100        |
| Number of concurrent clients supported by the PPPoE server | 65         |
| 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        |
| RADIUS user group authorization                            | Yes        |
| Third-party authentication                                 | Yes        |
| IP Routing                                                 |            |
| Application-based routing                                  | Yes        |
| Bandwidth aggregation                                      | Yes        |
| BGP                                                        | Yes        |
| BGP4                                                       | Yes        |
| BGP4+                                                      | Yes        |

## Software Specifications

| Model                                              | RG-EG209GS |
|----------------------------------------------------|------------|
| 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        |
| VPN                                                |            |
| IPsec VPN                                          | Yes        |
| IPsec VPN bandwidth                                | 28 Mbps    |

## Software Specifications

| Model                                              | RG-EG209GS |
|----------------------------------------------------|------------|
| Maximum number of branches in IPsec VPN networking | 8          |
| L2TP VPN                                           | Yes        |
| L2TP VPN bandwidth                                 | 130 Mbps   |
| Maximum number of branches in L2TP VPN networking  | 8          |
| OpenVPN                                            | Yes        |
| OpenVPN bandwidth                                  | 20 Mbps    |
| Maximum number of branches in OpenVPN networking   | 16         |
| PPTP VPN                                           | Yes        |
| PPTP VPN bandwidth                                 | 190 Mbps   |
| Maximum number of branches in PPTP VPN networking  | 8          |
| SSL VPN                                            | No         |
| Easy VPN 1.0                                       | No         |
| Number of VPN accounts for L2TP, PPTP, and OpenVPN | 100        |
| WireGuard server                                   | Yes        |
| WireGuard client                                   | Yes        |
| WireGuard performance                              | 80 Mbps    |

# Software Specifications

| Model                                                                         | RG-EG209GS                                                                                      |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Number of concurrent tunnels supported by the WireGuard server                | 8                                                                                               |
| 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<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                                                                                             |

# Software Specifications

| Model                                                      | RG-EG209GS                                                                                                                                                                    |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                           |
| 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                                                                                                                                                                            |

# Software Specifications

| Model                                           | RG-EG209GS                                                                                                              |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 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                                                            |
| Maximum number of managed devices (router mode) | AP and NBS series: 150<br>ES series: 128<br>Note: The maximum number of managed devices varies with each device series. |
| Maximum number of managed devices (AC mode)     | AP and NBS series: 500<br>ES series: 128<br>Note: The maximum number of managed devices varies with each device series. |
| Security                                        |                                                                                                                         |
| ACL                                             | Yes                                                                                                                     |
| DHCP snooping                                   | No                                                                                                                      |

# Software Specifications

| Model                                 | RG-EG209GS |
|---------------------------------------|------------|
| 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        |
| SD-WAN                                |            |
| SD-WAN                                | Yes        |
| SD-WAN performance                    | 80 Mbps    |
| Number of tunnels supported by SD-WAN | 24         |

# Software Specifications

| Model                                                                                                  | RG-EG209GS  |
|--------------------------------------------------------------------------------------------------------|-------------|
| Maximum number of SD-WAN branches                                                                      | 8           |
| Active/Standby mode (automatically switching to the standby interface when the active interface fails) | Yes         |
| Tunnel bandwidth test                                                                                  | Yes         |
| Bypass networking for a device in AP mode                                                              | No          |
| Centralized traffic forwarding policy                                                                  | Yes         |
| Multi-WAN bandwidth aggregation efficiency (lab data)                                                  | $\geq 80\%$ |
| Gateway Features                                                                                       |             |
| WAN failover                                                                                           | Yes         |
| Application priority                                                                                   | Yes         |
| Application recognition                                                                                | Yes         |
| Behavior management                                                                                    | Yes         |
| QoS                                                                                                    | Yes         |
| Time-based blocking policy                                                                             | Yes         |
| IP address-based blocking policy                                                                       |             |
| Website filtering: custom URL                                                                          | Yes         |
| Traffic audit                                                                                          | Yes         |

# Software Specifications

| Model                                                | RG-EG209GS                                       |
|------------------------------------------------------|--------------------------------------------------|
| URL audit log                                        | Yes                                              |
| Audit log server                                     | Yes                                              |
| Audit log storage                                    | No                                               |
| Uploading audit logs to a server                     | Yes                                              |
| System Performance Capacity                          |                                                  |
| Maximum number of concurrent sessions                | 60000                                            |
| Recommended number of concurrent clients             | 200                                              |
| Throughput                                           | 1000 Mbps (Turbo Mode)<br>600 Mbps (Normal Mode) |
| 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                                              |

# Software Specifications

| Model                         | RG-EG209GS |
|-------------------------------|------------|
| Reliability                   |            |
| Stacking                      | No         |
| VRRP                          | No         |
| 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         |
| Turbo mode                    | Yes        |
| NAT loopback                  | Yes        |
| DNS client                    | Yes        |
| DNS proxy                     | Yes        |

# Software Specifications

| Model                                                                | RG-EG209GS |
|----------------------------------------------------------------------|------------|
| 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                                       | 256        |
| Port mapping                                                         | Yes        |
| DDNS                                                                 | Yes        |
| Ruijie DDNS                                                          | Yes        |
| Alibaba Cloud DDNS                                                   | Yes        |
| UPnP                                                                 | Yes        |

# Software Specifications

| Model                                               | RG-EG209GS |
|-----------------------------------------------------|------------|
| Number of sub-interfaces configured on a WAN port   | 8          |
| 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        |
| Scheduled PPPoE reconnection                        | No         |

## Package Contents

| Model              | RG-EG209GS |
|--------------------|------------|
| Manual             |            |
| User Manual        | 1          |
| Warranty Card      | 1          |
| Accessories        |            |
| Rack-mount bracket | 0          |
| Power adapter      | 1          |
| Rubber pad         | 4          |

**Ruijie** | ReYee

 **R**edefine **y**our **e**asy network



**Ruijie Networks Co., Ltd.**

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