

# RG-EG406XS

## 5-Port 2.5G Cloud Managed Router, 1 x 10G Port



### Highlights

- Supporting up to 400 concurrent clients.
- High-performance router with 2.5 Gbps throughput for diverse network scenarios.
- Efficient bandwidth management based on applications and users.
- Multi-WAN, smart load balancing.
- Lifetime\* free management on Ruijie Cloud anytime, anywhere.

\* Lifetime means the lifespan of the product, subject to EOL policies.

# Highlight Features

## RG-EG406XS

Unleashing Multi-Gig, Elevating Performance



5 x 10/100/1000/2500BASE-T Ports

1 x 10GE SFP+ Port

LAN0 LAN1/WAN3 LAN2/WAN2 LAN3/WAN1 WAN0 LAN4/WAN4

RG-EG406XS

SYS RESET DC 12V 2.5G 10G SFP+ Scan to Add

400 Concurrent Clients

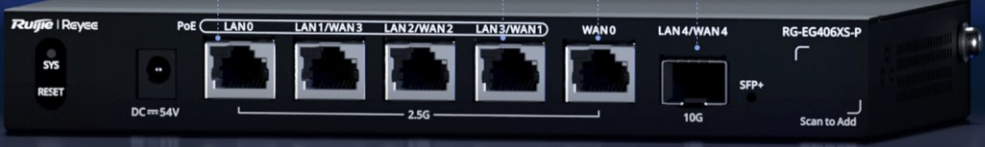
100 VPN Tunnels

2.5 Gbps Throughput

Multi-WAN Load Balancing

## RG-EG406XS-P

Unleashing Multi-Gig, Elevating Performance



4 x PoE Out Ports

5 x 10/100/1000/2500BASE-T Ports

1 x 10GE SFP+ Port

PoE LAN0 LAN1/WAN3 LAN2/WAN2 LAN3/WAN1 WAN0 LAN4/WAN4

RG-EG406XS-P

SYS RESET DC 54V 2.5G 10G SFP+ Scan to Add

400 Concurrent Clients

100 VPN Tunnels

2.5 Gbps Throughput

Multi-WAN Load Balancing

## Whole-Home 2.5G, Designed for Your Ideal Living

Empower every corner with ultra-fast, intelligent connectivity



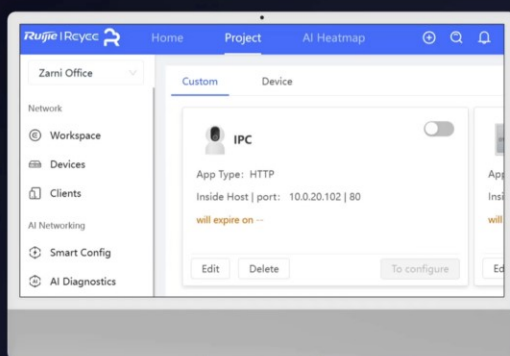
The illustration shows a modern house at night with large glass windows. Three circular callouts highlight different areas: a living room with a white ceiling light, a bedroom with a white ceiling light, and a kitchen with a white ceiling light. A small inset image shows the Ruijie RG-EG406XS network switch.

\* Product images are computer-generated for illustration purposes only. Actual products may vary in details, features, or appearance.

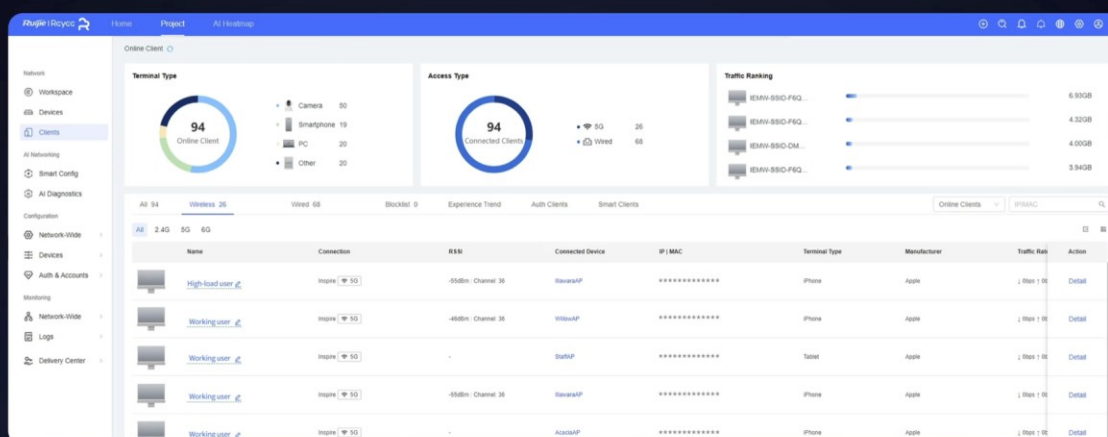
# Highlight Features

## Easy NAT Traversal

The management console uniformly displays all third-party devices, enabling easy intranet access and one-click links to their web interfaces.

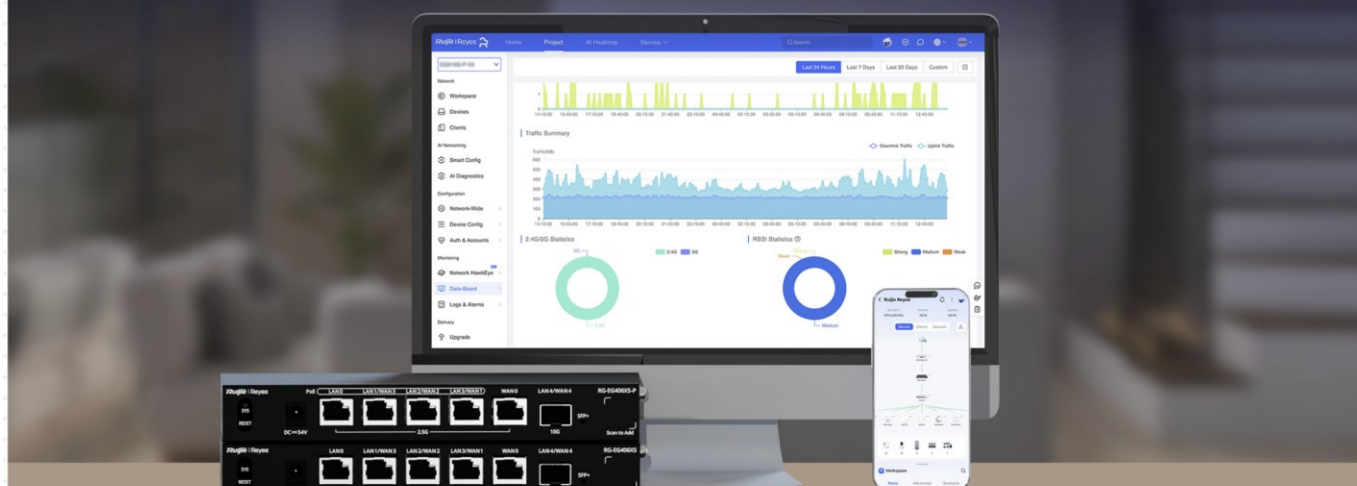


## Client Recognition & Flow Control



## Cloud, Make Your Business Easy

- Self-organizing network
- Quickly advanced service setup by app
- Scenario-based configuration guide
- Marketing portal authentication



\* Product images are computer-generated for illustration purposes only. Actual products may vary in details, features, or appearance.

# Hardware Specifications

| Model                          | RG-EG406XS                                                                                                    |
|--------------------------------|---------------------------------------------------------------------------------------------------------------|
| Environment and Reliability    |                                                                                                               |
| Cooling                        | Natural cooling                                                                                               |
| Fan                            | Fanless design                                                                                                |
| Mounting options               | Desk/Rack<br>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<br>Power connector: ±4 kV for common mode and ±2 kV for differential mode |
| Power Supply and Consumption   |                                                                                                               |
| Power supply                   | DC power adapter                                                                                              |
| Dimensions of the DC connector | Outer diameter: 5.5 mm (0.22 in.)<br>Inner diameter: 2.1 mm (0.08 in.)<br>Depth: 10.0 mm (0.39 in.)           |
| Maximum power consumption      | 9 W                                                                                                           |
| Port Specifications            |                                                                                                               |
| Total number of optical ports  | 1                                                                                                             |
| Total number of RJ45 ports     | 5                                                                                                             |



## Hardware Specifications

| Model                                  | RG-EG406XS                                                |
|----------------------------------------|-----------------------------------------------------------|
| Number of 10/100/1000/2500BASE-T ports | 5                                                         |
| Number of 10GE SFP+ ports              | 1                                                         |
| Maximum number of LAN ports            | 5                                                         |
| Maximum number of WAN ports            | 5                                                         |
| Number of fixed LAN ports              | 1                                                         |
| Number of fixed WAN ports              | 1                                                         |
| Number of LAN/WAN ports                | 4                                                         |
| LEDs                                   | 1 x system status LED<br>6 x Ethernet port LEDs           |
| Reset button                           | 1                                                         |
| System Specifications                  |                                                           |
| CPU                                    | Quad-core processor, 2.0 GHz clock frequency per core     |
| Flash memory                           | 256 MB                                                    |
| RAM                                    | 1 GB                                                      |
| Dimensions and Weight                  |                                                           |
| Package dimensions (W x D x H)         | 278 mm x 229 mm x 77 mm (10.94 in. x 9.02 in. x 3.03 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                        | 1.28 kg (2.82 lbs)                                        |
| Weight                                 | 0.61 kg (1.34 lbs)                                        |

# Software Specifications

| Model                                                                         | RG-EG406XS              |
|-------------------------------------------------------------------------------|-------------------------|
| System Performance Capacity                                                   |                         |
| Maximum number of concurrent sessions                                         | 120000                  |
| Recommended number of concurrent clients                                      | 400                     |
| Throughput                                                                    | 3500 Mbps (Turbo Mode)  |
|                                                                               | 2500 Mbps (Normal Mode) |
| 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                   |

# Software Specifications

| Model                                                              | RG-EG406XS                                                                                                                                                                    |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
| 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                                                                                                                                                                           |

## Software Specifications

| Model                                                      | RG-EG406XS |
|------------------------------------------------------------|------------|
| 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           | 400        |
| Number of concurrent clients supported by the PPPoE server | 200        |
| 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        |



# Software Specifications

| Model                                               | RG-EG406XS |
|-----------------------------------------------------|------------|
| 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         |
| IP Routing                                          |            |
| Application-based routing                           | Yes        |
| Bandwidth aggregation                               | Yes        |
| BGP                                                 | Yes        |
| BGP4                                                | Yes        |
| BGP4+                                               | Yes        |
| ECMP                                                | No         |
| IPv4 static route                                   | Yes        |
| IPv6 PBR                                            | Yes        |

## Software Specifications

| Model                                              | RG-EG406XS |
|----------------------------------------------------|------------|
| 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                                | 700 Mbps   |
| Maximum number of branches in IPsec VPN networking | 100        |
| L2TP VPN                                           | Yes        |

## Software Specifications

| Model                                                          | RG-EG406XS |
|----------------------------------------------------------------|------------|
| L2TP VPN bandwidth                                             | 850 Mbps   |
| Maximum number of branches in L2TP VPN networking              | 100        |
| OpenVPN                                                        | Yes        |
| OpenVPN bandwidth                                              | 200 Mbps   |
| Maximum number of branches in OpenVPN networking               | 100        |
| PPTP VPN                                                       | Yes        |
| PPTP VPN bandwidth                                             | 850 Mbps   |
| Maximum number of branches in PPTP VPN networking              | 100        |
| SSL VPN                                                        | No         |
| Easy VPN 1.0                                                   | No         |
| Number of VPN accounts for L2TP, PPTP, and OpenVPN             | 400        |
| WireGuard server                                               | Yes        |
| WireGuard client                                               | Yes        |
| WireGuard performance                                          | 750 Mbps   |
| Number of concurrent tunnels supported by the WireGuard server | 100        |
| Ethernet Switching                                             |            |

## Software Specifications

| Model                                                | RG-EG406XS |
|------------------------------------------------------|------------|
| Link aggregation                                     | No         |
| LLDP                                                 | No         |
| VLAN                                                 | Yes        |
| Maximum number of VLANs                              | 128        |
| VLAN configuration supported on LAN ports            | Yes        |
| Super-VLAN                                           | No         |
| Configuring the same VLAN tag for multiple WAN ports | Yes        |
| VLAN priority                                        | Yes        |
| Number of MAC address entries to be filtered         | 512        |
| SD-WAN                                               |            |
| SD-WAN                                               | Yes        |
| SD-WAN performance                                   | 750 Mbps   |
| Number of tunnels supported by SD-WAN                | 300        |
| Maximum number of SD-WAN branches                    | 100        |

# Software Specifications

| Model                                                                                                  | RG-EG406XS  |
|--------------------------------------------------------------------------------------------------------|-------------|
| 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)                                                  | $\geq 80\%$ |
| Reliability                                                                                            |             |
| Stacking                                                                                               | No          |
| VRRP                                                                                                   | No          |
| WLAN                                                                                                   |             |
| Wireless Intelligent Optimization (WIO)                                                                | Yes         |
| IP Service                                                                                             |             |
| 3322.org                                                                                               | Yes         |
| ALG                                                                                                    | Yes         |
| ARP binding                                                                                            | Yes         |
| Maximum number of ARP entries                                                                          | 1024        |
| Proxy ARP                                                                                              | No          |

# Software Specifications

| Model                                                                | RG-EG406XS |
|----------------------------------------------------------------------|------------|
| 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        |



# Software Specifications

| Model                                             | RG-EG406XS |
|---------------------------------------------------|------------|
| 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 | 32         |
| 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                  |            |

# Software Specifications

| Model                            | RG-EG406XS |
|----------------------------------|------------|
| 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        |
| MPLS                             |            |
| MPLS L2VPN                       | No         |
| Security                         |            |
| ACL                              | Yes        |
| IPv6 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        |

# Software Specifications

| Model                                                      | RG-EG406XS |
|------------------------------------------------------------|------------|
| IP-MAC binding                                             | Yes        |
| Network sharing prevention                                 | Yes        |
| Security log                                               | Yes        |
| Security zone                                              | Yes        |
| User group-based connection limiting                       | 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-EG406XS                                                                                                              |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 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: 200<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: 750<br>ES series: 128<br>Note: The maximum number of managed devices varies with each device series. |

## Package Contents

| Model              | RG-EG406XS                                           |
|--------------------|------------------------------------------------------|
| Manual             |                                                      |
| User Manual        | 1                                                    |
| Warranty Card      | 1                                                    |
| Accessories        |                                                      |
| Rack-mount bracket | 2                                                    |
| Power adapter      | 1                                                    |
| Rubber pad         | 4                                                    |
| Screw              | 6 x M3 x 6 mm cross recessed countersunk head screws |

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**Ruijie Networks Co., Ltd.**

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