

RG-EG406XS-P

5-Port (4 PoE/PoE+) 2.5G Cloud Managed Router, 1 x 10G Port



Highlights

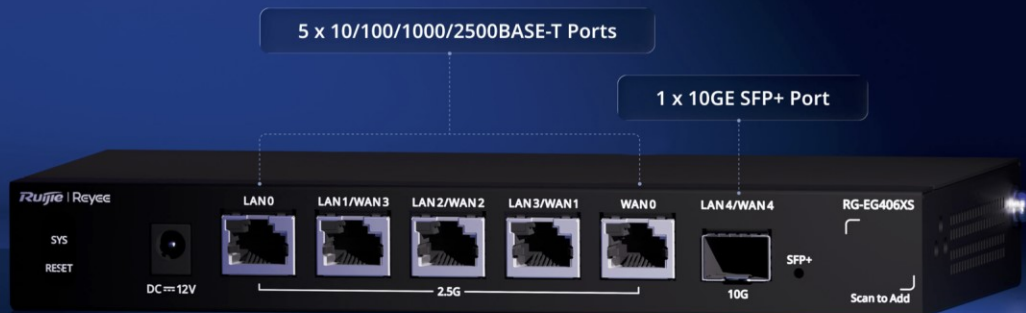
- Supporting up to 400 concurrent clients, with 4 PoE Out ports.
- High-performance router with 2.5 Gbps throughput for diverse network scenarios.
- Efficient bandwidth management based on applications and users.
- Multi-WAN, smart load balancing.
- Lifetime* free management on Ruijie Cloud anytime, anywhere.

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

Highlight Features

RG-EG406XS

Unleashing Multi-Gig, Elevating Performance



400
Concurrent Clients

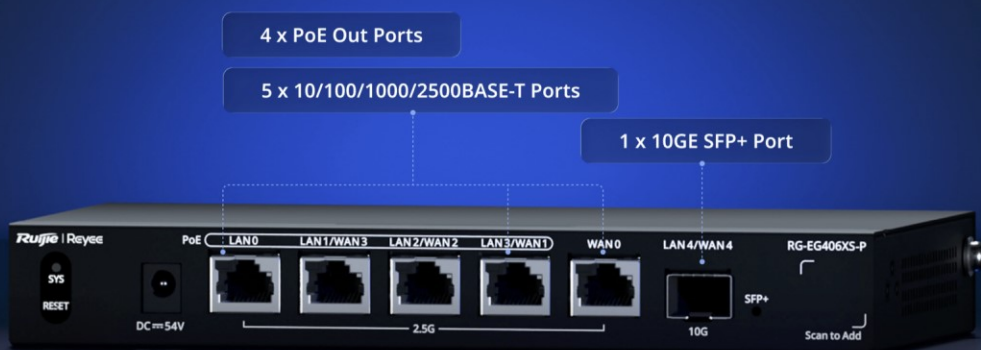
100
VPN Tunnels

2.5 Gbps
Throughput

Multi-WAN
Load Balancing

RG-EG406XS-P

Unleashing Multi-Gig, Elevating Performance



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Concurrent Clients

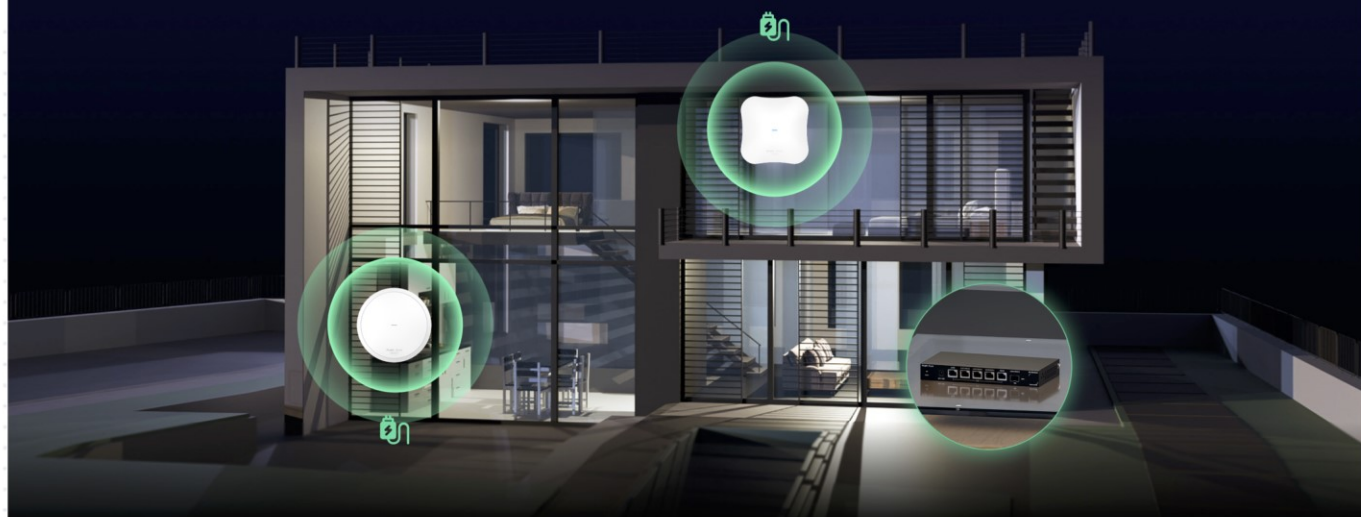
100
VPN Tunnels

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

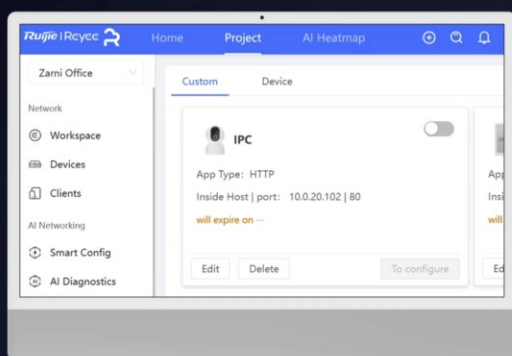


* Product images are computer-generated for illustration purposes only. Actual products may vary in details, features, or appearance.

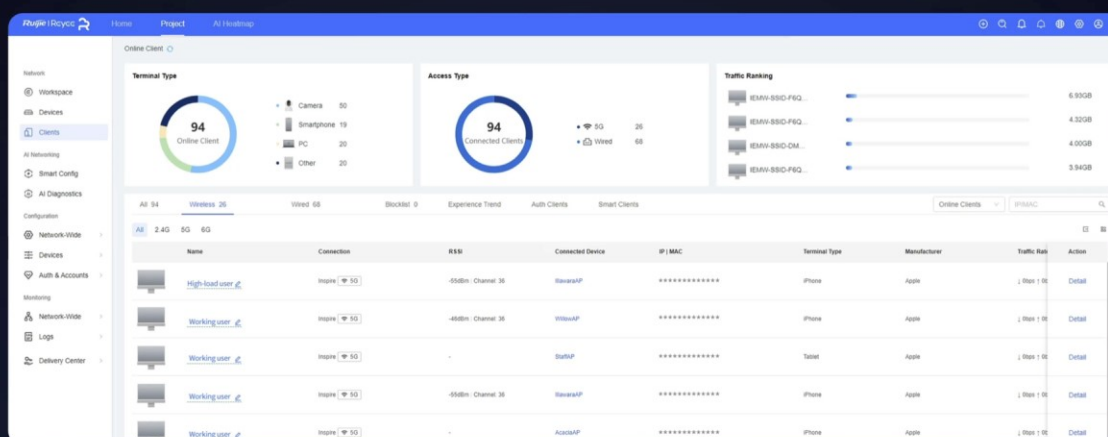
Highlight Features

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



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Hardware Specifications

Model	RG-EG406XS-P
System Specifications	
CPU	Quad-core processor, 2.0 GHz clock frequency per core
Flash memory	256 MB
RAM	1 GB
Port Specifications	
Total number of optical ports	1
Total number of RJ45 ports	5
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
	6 x Ethernet port LEDs
Reset button	1
Power Supply and Consumption	
Power supply	DC power adapter

Hardware Specifications

Model	RG-EG406XS-P
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	9.2 W (with no PoE load)
	129 W (with full PoE load)
PoE budget	110 W
Number of PoE Out ports	4
PoE budget per port	30 W
PoE power pins	1-2 (+), 3-6 (-)
PoE Out standard	IEEE 802.3af/at (PoE/PoE+)
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	1.56 kg (3.44 lbs)
Weight	0.62 kg (1.37 lbs)
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)

Hardware Specifications

Model	RG-EG406XS-P
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: ±4 kV for common mode and ±4 kV for differential mode

Software Specifications

Model	RG-EG406XS-P
IP Routing	
Application-based routing	Yes
Bandwidth aggregation	Yes
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

Software Specifications

Model	RG-EG406XS-P
OSPFv3	Yes
RIP	Yes
RIPng	Yes
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

Software Specifications

Model	RG-EG406XS-P
MAC address-based authentication	Yes
PPPoE server	Yes
Number of accounts supported by the PPPoE server	400
RADIUS flow control authorization supported by WISPr authentication	Yes
Number of concurrent clients supported by the PPPoE server	200
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 Switching	
Link aggregation	No

Software Specifications

Model	RG-EG406XS-P
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
System Performance Capacity	
Maximum number of concurrent sessions	120000
Recommended number of concurrent clients	400
Throughput	3500 Mbps (Turbo Mode) 2500 Mbps (Normal Mode)
Gateway Features	
WAN failover	Yes
Application priority	Yes

Software Specifications

Model	RG-EG406XS-P
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
URL audit log	Yes
Audit log server	Yes
Audit log storage	No
Uploading audit logs to a server	Yes
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

Software Specifications

Model	RG-EG406XS-P
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
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

Software Specifications

Model	RG-EG406XS-P
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
Reliability	
Stacking	No
VRRP	No
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

Software Specifications

Model	RG-EG406XS-P
Multiple WAN interfaces on the same network segment	Yes
PPPoE clients	Yes
Scheduled PPPoE reconnection	No
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
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)	≥ 80%
MPLS	

Software Specifications

Model	RG-EG406XS-P
MPLS L2VPN	No
WLAN	
Wireless Intelligent Optimization (WIO)	Yes
VPN	
IPsec VPN	Yes
IPsec VPN bandwidth	700 Mbps
Maximum number of branches in IPsec VPN networking	100
L2TP VPN	Yes
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

Software Specifications

Model	RG-EG406XS-P
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
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

Software Specifications

Model	RG-EG406XS-P
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

Software Specifications

Model	RG-EG406XS-P
Port mapping	Yes
DDNS	Yes
Ruijie DDNS	Yes
Alibaba Cloud DDNS	Yes
UPnP	Yes
Number of sub-interfaces configured on a WAN port	32
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

Software Specifications

Model	RG-EG406XS-P
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: 200 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: 750 ES series: 128 Note: The maximum number of managed devices varies with each device series.

Package Contents

Model	RG-EG406XS-P
Accessories	
Power adapter	1
Power cord	1 x 0.8 m (31.50 in.) or 1 x 1 m (39.37 in.) Note: There are two power cord lengths. Please refer to the actual delivery.
Rubber pad	4
Manual	
User Manual	1
Warranty Card	1

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Ruijie Networks Co., Ltd.

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