

Ruijie EasyGate Unified Security Gateway

RG-EG3250/ RG-EG3230/ RG-EG2100-P V2



Ruijie Networks Co., Ltd.

For further information, please visit our website <https://www.ruijienetworks.com>

INNOVATION
Beyond Networks

sales@rxtx.com.au

+61 45 22 45 222

Ruijie
Rxtx
Security Wholesale
www.rxtx.com.au

Product Overview

Ruijie EasyGate (EG) Next-generation Unified Security Gateway is a multi-functional Cloud Managed Security Gateway product for various industries. Equipped with high-performance multi-core MIPS hardware architecture, the EG Gateway supports a wide range of features such as high-performance NAT, WAN load balancing, smart flow control, online behavior management, visualized IPsec VPN¹, web authentication, etc.

Taking advantage of integrated Hard Disk Drive² (HDD), the EG Security Gateway can provide local storage for Internet activities logging, which is essential for National Internet Security Compliance in many countries.

Ruijie EG Next-generation Unified Security Gateway is also supported by Ruijie Cloud, altogether with switches and wireless access points, Ruijie Cloud can provide a comprehensive secure networking platform for centralized management allowing for device monitoring, configuration as well as firmware management.

For ease of provisioning, Ruijie provide an innovative Mobile App Dummy Provisioning³ for SME customers. In less than 3-min, user can complete the Gateway initial setup with Internet connectivity, without any PC setup or cable installation.

There are three models available for Security Gateway, RG-EG3250, RG-EG3230 & RG-EG2100-P v2.

Feature highlights of Ruijie EG Next-generation Security Gateway Series:



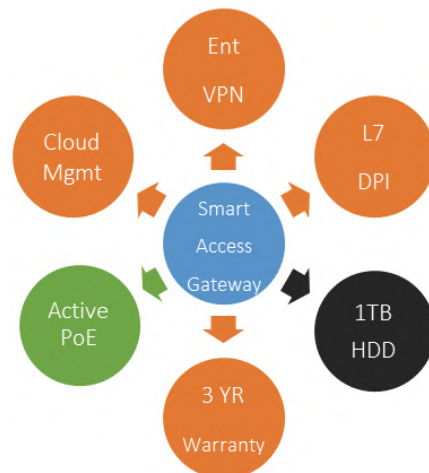
RG-EG2100-P v2



RG-EG3250/ RG-EG3230

Highlights

- Smart Flow Control & AAA Integration
- User Online Behavior Management
- VPN & Traffic Visualization
- FREE Cloud Management
- App Caching for Download Acceleration
- Built-in Internet Audit Log Storage (EG3250 and EG3230)
- Built-in Power-Over-Ethernet Integration (EG-2100-P v2)
- Mobile App Dummy Provisioning (EG-2100-P v2)



Note:

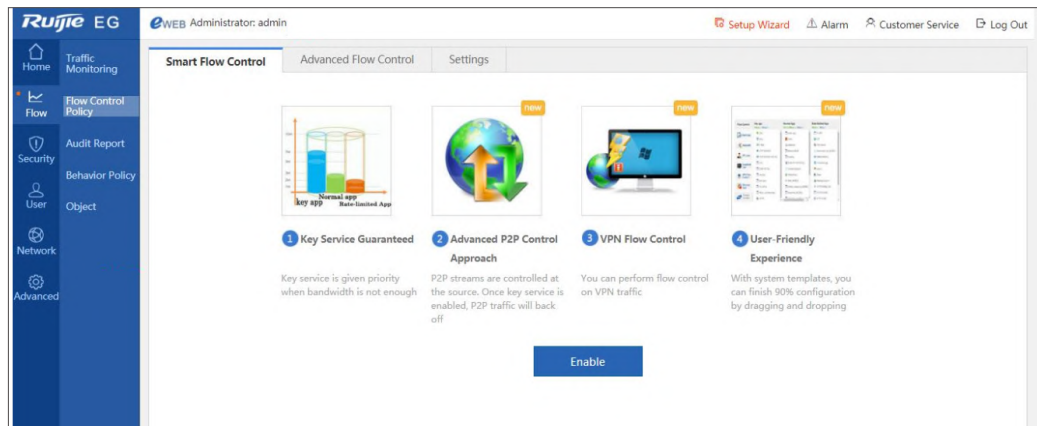
¹ The VPN feature is not available for Russia regions

² Available for RG-EG3250 and RG-EG3230 model

³ Available for RG-EG3250 and RG-EG3230 model, and at least one Ruijie Wireless Access Point is required

Product Features

Smart Flow Control & AAA Integration



- Smart P2P speed limit, accurate identification of P2P software, and automatic transmission of uplink source quench message to control the downlink traffic and prevent downlink bandwidth exhaustion
- Support over 120 popular application in DPI engine and enjoys FREE for life signature update
- Role-based flow control based on usernames and user groups to facilitate the allocation of bandwidths according to different departments
- Support AAA (Authentication, Authorization and Accounting) with web authentication, integration with AAA Software and simple traffic accounting feature

Flexible Authentication⁴

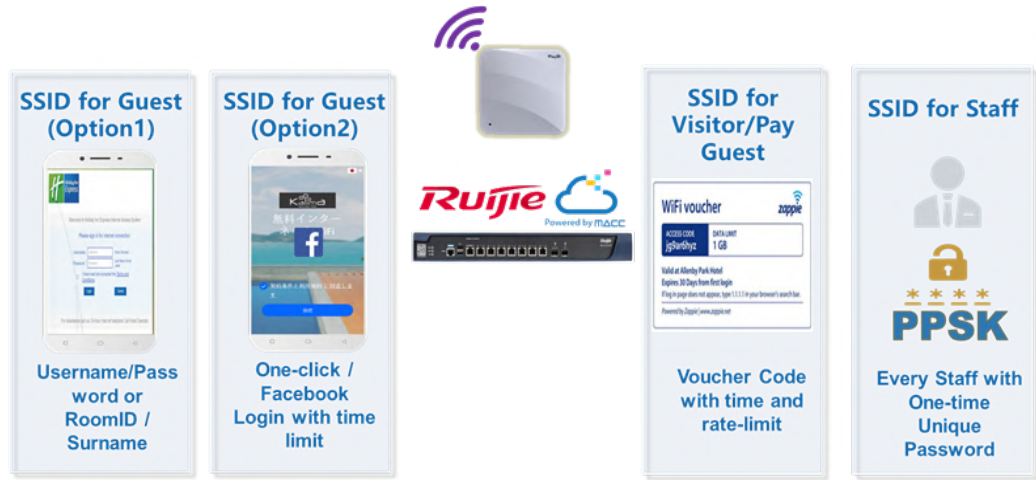
With integration with Ruijie Cloud Service (<https://www.ruijienetworks.com/products/smb/cloud-service/>), the Ruijie EG Security Gateway provide the easy, secure and flexible authentication experience for various business scenarios.

All account or portal management can be managed at Ruijie Cloud centrally, but all authentication⁵ are processed locally at EG Gateway, which guarantee for authentication performance and the highest availability, such that any connectivity error with Ruijie Cloud service will not bring any service interruptions to the user authentication service.

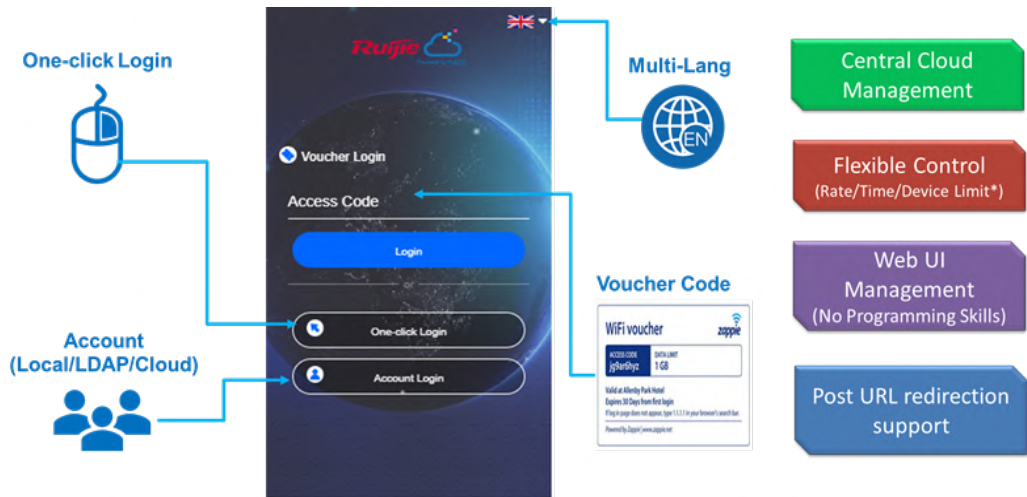
Note:

⁴ Ruijie Cloud integration required

⁵ In exception with Facebook login and PPSK, of which authentication processing will be at Ruijie Cloud

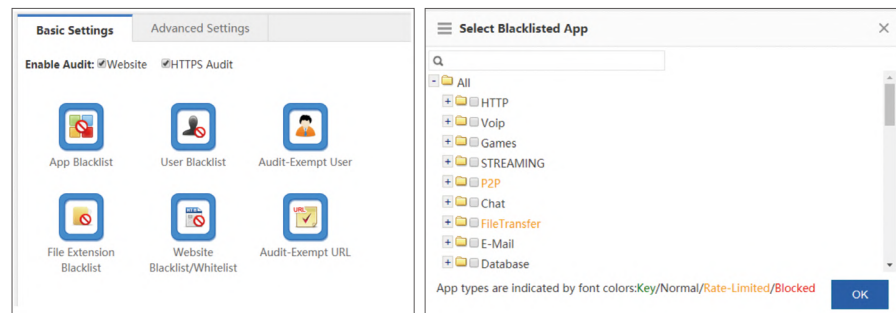


Ruijie EG provide rich access security policy for guest and staff



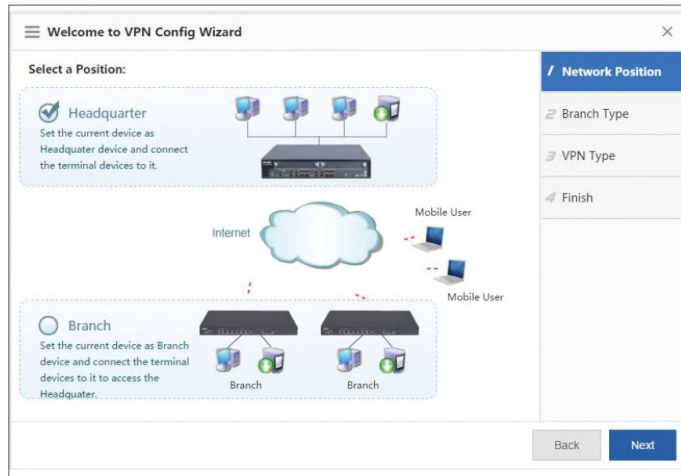
Multiple Logins at same portal – allow for multiple guest access policy simultaneously

Online Behavior Management



Ruijie EG Next-generation Unified Security Gateway provides detailed online behavior management of the intranet users, blocking a variety of non-work-related websites to create a good working atmosphere and improve work efficiency.

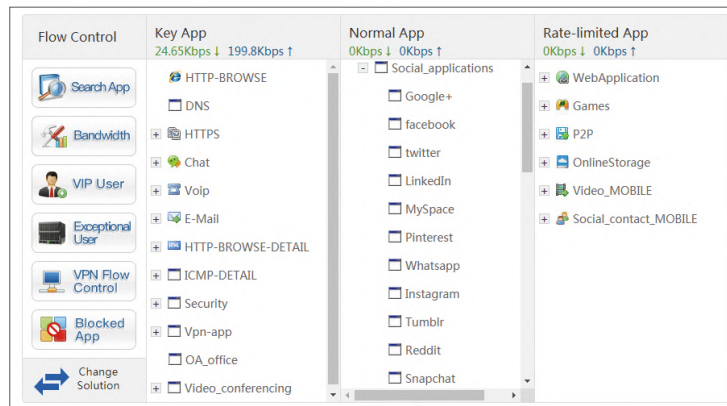
VPN Visualization⁶



Ruijie Security Gateway has significantly simplified the VPN configuration, which could be completed just by a few clicks, eliminating the need for professional maintenance. The gateway enables users to view and control the traffic in the VPN tunnel, establishing a visualized VPN to guarantee the security of key services using VPN.

Traffic Analysis

Equipped with powerful DPI technology, the Ruijie SME Security Gateway collects traffic usage statistics based on users, applications and links for report generation, providing reliable historical data for bandwidth expansion as well as user and application-based bandwidth control policies.



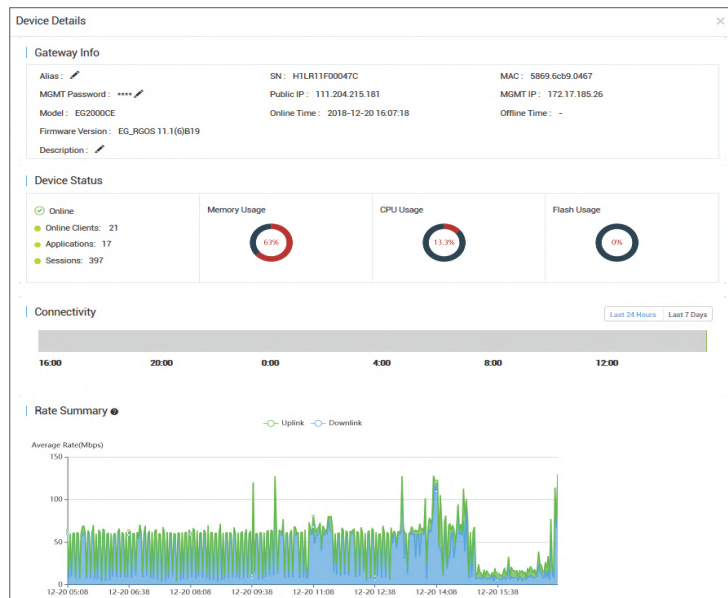
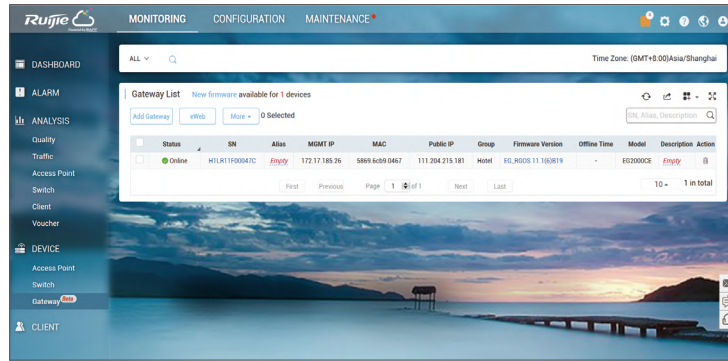
Centralized Cloud Management

Couple with Ruijie Cloud services, the Ruijie EG Security Gateway is now able to be monitored & managed from the centralized cloud services. Ruijie Cloud is the free cloud-based management platform for all the Security Gateway series. No hardware or servers

Note:

⁶ The VPN feature is not available for Russia regions

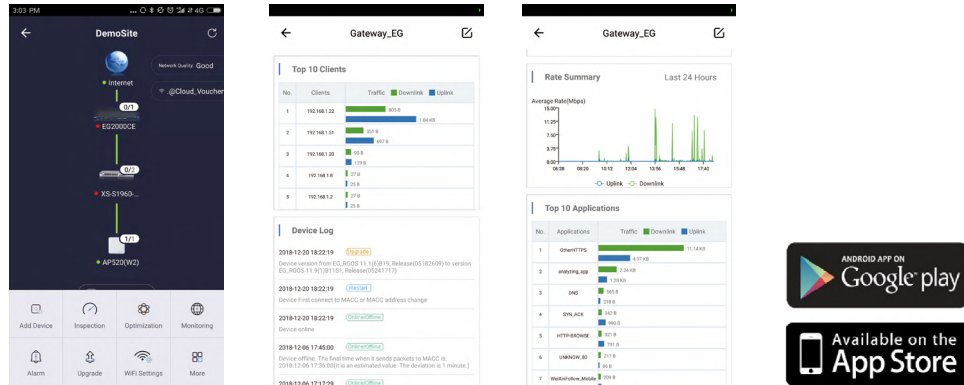
required to be installed on customer premise. Device monitoring, configuration changes & firmware management can be performed easily in anytime, anywhere & anyway.



Top 10 Applications by Traffic			Top 10 Users by Traffic		
No.	Application	Traffic = Downlink + Uplink	No.	User	Traffic = Downlink + Uplink
1	HTTP-Single-Threaded	11.61 KB 490.83 KB	1	10.10.12.12	11.61 KB 490.83 KB
2	OtherHTTPS	17.06 KB 22.92 KB	2	10.10.12.16	17.89 KB 26.15 KB
3	HTTP-BROWSE	2.41 KB 11.58 KB	3	10.10.12.13	1.95 KB 8.34 KB
4	UDP-COMMUTE	944.00 B 668.00 B	4	10.10.11.79	629.00 B 1.46 KB
5	analyzing_app	616.00 B 1.47 KB	5	10.10.12.11	571.00 B 949.00 B
6	P2P-DOWNLOAD-FLOW	537.00 B 449.00 B	6	10.10.12.20	537.00 B 449.00 B
7	SYN_LACK	530.00 B 1022.00 B	7	10.10.11.74	90.00 B 83.00 B
8	DNS	126.00 B 108.00 B	8	10.10.11.118	90.00 B 83.00 B
9	LOOKMYPC	83.00 B 167.00 B	9	10.10.12.14	90.00 B 83.00 B
10	QQ_Mobile	0.00 B 0.00 B	10	10.10.11.112	90.00 B 83.00 B

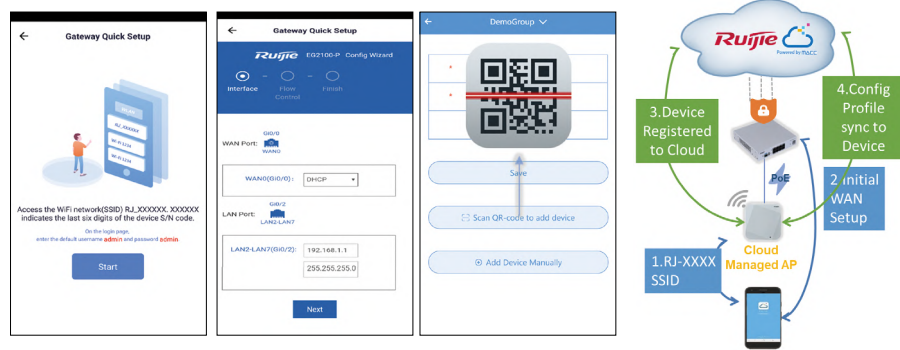
EG Security Gateway Device Info and Top N Traffic Analysis on Ruijie Cloud management platform

Intuitive Mobile App



Apart from the accessing cloud management dashboard from workstation, Ruijie offer an alternative to manage Security Gateway from your fingertips, a tailor-made Mobile App you can download from Google Play and Apple Appstore. You can now access to Security Gateway even you're away from your PC.

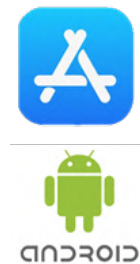
Mobile App Provisioning for Dummy



For ease of provisioning, Ruijie provide an innovative Mobile App Dummy Provisioning⁷ for SME customers. In less than 3-min, user can complete the Gateway initial setup with Internet connectivity, without any PC setup or cable installation.

App Caching for Download Acceleration

Ruijie EG Gateway provide exclusive Caching technology for any media files resources and Mobile App (Android APK), the files will download from EG Cache directly without go through the Internet. The feature is exceptionally help for situation with high volume for same identical file downloading, such as Games, Mobile App, System Patches, etc. but the internet line speed is not fast sufficient or expensive.



Note:

⁷ Available for RG-EG3250 and RG-EG3230 model, and at least one Ruijie Wireless Access Point is required

One of most popular application is for shopping malls, retails chain, F&B, Airport, Metro Company with own Mobile App for O2O business, membership promotion, and value-added service. Guest or Visitors very often will download the same Mobile App during the peak hours, and long downloading is definitely expected because of Internet or Server-side bottleneck issues.

Resource Name	Resource Size	Hit Times	Hit Traffic
172.31.61.15/favicon.ico	7398	5	3.61KB
172.31.61.15/RuijieCloudAppV1.3.5trail.apk	25.48MB	3	76.44MB

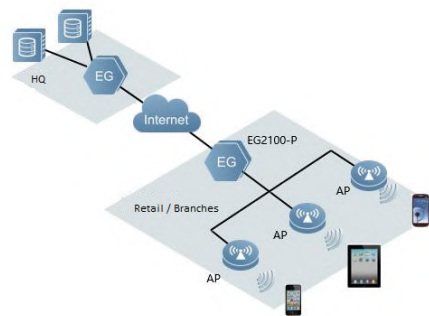
EG Security Gateway Hot Spot Resource Table: Review for the Hit Ratio for cache resources

Built-in Internet Audit Log Storage

At the heart of most devices that provide protection for IT networks is an ability to log events and take actions based on those events. Ruijie SME Security Gateway (EG3250 and EG3230 model only) supports detail logging both on what has happened to the device and what is happening. A local attached 1TB hard disk provides sufficient storage to keep all the necessary audit logging trail. It increases the higher logging retention period before it is exported to external logging server.

User(IP)	Website	Website Type	Access on	Action
/192.168.2.6(192.168.2.6)	http://online.kugou.com/pull?ver=9068&c...	UNKNOWN CLASS	2019-01-31 17:46:18	Allow
/192.168.2.6(192.168.2.6)	https://avsec.com	UNKNOWN CLASS	2019-01-31 17:45:59	Allow
/192.168.2.6(192.168.2.6)	https://www.baidu.com	Blocked	2019-01-31 17:45:59	Blocked
/192.168.2.6(192.168.2.6)	https://baidu.com	Blocked	2019-01-31 17:45:59	Blocked
/192.168.2.6(192.168.2.6)	http://14.215.177.39/	UNKNOWN CLASS	2019-01-31 17:45:49	Allow
/192.168.2.6(192.168.2.6)	http://14.215.177.38/	UNKNOWN CLASS	2019-01-31 17:45:49	Allow
/192.168.2.6(192.168.2.6)	https://jpush.cn	UNKNOWN CLASS	2019-01-31 17:45:28	Allow
/192.168.2.6(192.168.2.6)	https://fuijienetworks.com	UNKNOWN CLASS	2019-01-31 17:42:25	Allow
/192.168.2.6(192.168.2.6)	https://cloud.tencent.com	UNKNOWN CLASS	2019-01-31 17:39:34	Allow
/192.168.2.6(192.168.2.6)	https://vivo.com.cn	UNKNOWN CLASS	2019-01-31 17:36:07	Allow

Built-in Power-Over-Ethernet (POE)



Designed for retail, small organizations and distributed enterprises with remote and branch offices, the RG-EG2100-P v2 integrate support for PoE devices. It come with 7 POE Out ports to provide power to and endpoint like, video cameras, security access control (card scanners), point-of-sales devices, IP phones, wireless access point and many more. It eliminates the complexity of providing extra power cabling especially the small organization or retail wireless network deployment. Cost and time saving!

Technical Specifications

Model	RG-EG2100-P v2	RG-EG3250	RG-EG3230
Hardware Specification			
CPU	Multi-core MIPS		
Fixed Ports	8 1000BASE-T ports (7x POE/POE+)	8 1000BASE-T ports 1 SFP port 1 SFP+ port (non-combo)	8 1000BASE-T ports 1 SFP port 1 SFP+ port (non-combo)
WAN Ports	Upto 2	Upto 6	Upto 6
Flash	4GB EMMC	8M SPIFLASH	8M SPIFLASH
Hard Disk	N/A	Standard 1TB	Standard 1TB
Memory	512M	2G	2G
Performance & Feature			
Performance	1000Mbps (1518 bytes)	6000Mbps (1518 bytes)	4000Mbps (1518 bytes)
	450Mbps (512bytes)	3725Mbps (512bytes)	2610Mbps (512bytes)
	70Mbps (64 bytes)	800Mbps (64 bytes)	622Mbps (64 bytes)
Concurrent Session	100,000	600,000	300,000
Recommended Concurrent User ⁸	300	2000	1000
Portal Authentication Capacity	100 (Max Concurrent Users)	1500 (Max Concurrent Users)	1000 (Max Concurrent Users)
Portal Authentication Type	Username/Password Auth (Local, Windows-based AD/LDAP Integration) One-click Authentication; Guest Voucher (Ruijie Cloud required)		
Seamless Authentication (Portal)	Support		
App Caching	Support		
Cache Capacity	750MB	100GB	N/A
Cache Resources	Android APK files (non-https server required)	Windows System Patches	Windows System Patches
Network Protocol	Support TCP/IP protocols, including IP, ICMP, TCP, UDP, etc. Support multiple routing protocols, including static routing, RIP (V1 / V2) and OSPF Support DHCP Relay and DHCP Server Support PPPoE Client Support NAT and multiple NAT ALG including FTP, H.323, DNS, etc. Support ARP, trusted ARP, proxy ARP, etc. Support Ping and Traceroute fault detection		

Note:

⁸Each user approx. 300 concurrent sessions

Model	RG-EG2100-P v2	RG-EG3250	RG-EG3230
Application Visibility	Support self-developed 43 types of applications/ more than 120 application features, customizable protocol identification: P2P: BitTorrent, eMule, Thunder, EDONKEY, FlashGet & etc. Multimedia: YouTube, Facebook Video, WebEx Conference & etc. Social Media: Facebook, Twitter, LinkedIn, Pinterest & etc. VOIP/Chat: Skype, Viber, Google Hangout, Jabber, Facebook Messenger & etc. Instant Messaging/Email: Gmail, MSN, QQ, YAHOO & etc. Software Update: Window, McAfee, Kaspersky, ESET & etc. Cloud-based File Collaboration: GoogleDrive, Dropbox, OneDrive, iCloud & etc. Enterprise Application: HTTP, FTP, SMTP, POP3, IMAP, Telnet, LOTUS-NOTES, SQL Server, Oracle, Mysql, HTTPS & etc.		
URL Filtering	Support HTTP/HTTPS domain filtering Support remote HTTP automatic URL library upgrade Local log storage (NAT log, traffic log, URL log, etc.) Support storage on external log server		
WAN Load Balancing	Support(upto 2 WAN Port)	Support (upto 6 WAN Port)	
High Availability	N/A	VRRP,RIP(Graceful Restart),OSPF(Graceful Restart)	
IPsec VPN Tunnel ⁹	16	1000	600
Network Security	Anti-ARP Spoofing Defense against malicious attacks from internal and external networks Support secure address binding Block WAN Ping Prevent Port Scan Attack Prevent Fragmentation Attack Prevent ICMP Flood Attack Prevent Teardrop Attack Prevent Ping of Death Attack Prevent Land Attack Prevent Smurf / Fraggle attack Prevent SYN Flood Attack		
Layer 2 Features	N/A	Support Bridging Support LAN Port Aggregation	
Ruijie Cloud Integration Feature	Support device health monitoring status Support centralized configuration change management & backup Support Top 10 Application/User traffic visualization Support device firmware management Support event-based alarm notification		
Other Features	Integrate with AAA software to support multiple authentication modes		
Other Features Service and Support	Support push advertising page		
	Support multi-link load balancing		
	Support remote HTTP online upgrade for signature library, software version, etc.		
	Lifetime Free signature library upgrade		
Rack Height	1U	1U	1U

Note:

⁹The VPN feature is not available for Russia regions

Model	RG-EG2100-P v2	RG-EG3250	RG-EG3230
Weight	2kg	4kg	4kg
Power Supply	100-240V,50-60Hz,3A	100-240V,50-60Hz,0.65A	100-240V,50-60Hz,0.65A
PoE Budget	135W	NA	NA
Power Consumption	<150W	<25W	<25W
Dimensions (W x D x H) (mm)	200×200×43.6	440×200×43.6	440×200×43.6
Operating Temperature	0°C to 45°C	0°C to 40°C	0°C to 40°C
Operating Humidity	10% to 90%RH	10% to 90%RH	10% to 90%RH
MTBF	N/A	>200,000 Hours	N/A

Typical Application

Ruijie EasyGate Next-gen Unified Security Gateway is a multi-functional security gateway product integrated with NAT, security, acceleration, flow control and online behavior management features, which is designed to optimize Internet Gateway Solutions, providing customers with simplified Internet gateway network, optimized Internet experience, flexible online behavior management and other features.

Security Gateway can be applied as Internet gateway for scenarios such as hotels, shopping mall, higher education, primary and secondary schools, enterprise networks, retails, small business, etc.



Typical Application Scenario for Hotel and SME Office



Typical Application Scenario for Retail Chain store

Application Features:

- Support integration with AAA authentication and Ruijie Cloud unified management
- Multi-link load balancing makes full use of the limited network bandwidth by efficient traffic allocation based on bandwidth/load
- Support user online behavior management such as blacklist URL blocking, user activity tracking and URL monitoring, etc.
- Feature-rich L7 Application visibility to track user traffic and apply necessary remediation
- All VPN traffic and site topology or VPN tunnel status easily be visualized by built-in VPN Web GUI module
- With build-in HDD storage, NAT/URL internet activities are stored for future internet compliance log purpose
- Unique App Caching (both EG2100P v2 and EG3200 series) provide ultrafast O2O Mobile App download experience

Ordering Information

Model	Description
RG-EG3250	All-in-one Unified Security Gateway, 8 GE ports (upto 6 WAN port), 1SFP, 1SFP+ ports (non-combo) , 1TB Hard disk (Lifetime free L7 DPI signature update), recommended for 2000 concurrent user scenario
RG-EG3230	All-in-one Unified Security Gateway, 8 GE ports (upto 6 WAN port), 1SFP, 1SFP+ ports (non-combo) , 1TB Hard disk (Lifetime free L7 DPI signature update), recommended for 1000 concurrent user scenario
RG-EG2100-P v2	All-in-one Smart Access Gateway, 8 GE ports (upto 2 WAN & 7 LAN port) upto 7x POE/POE+ (Lifetime free L7 DPI signature update), Rack Mount Kit included, recommended for 300 concurrent user scenarios

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