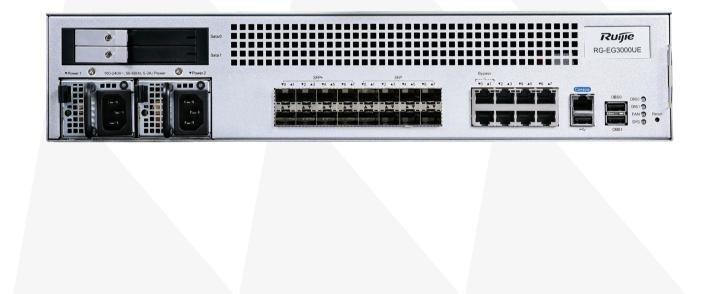
Next-Generation Integrated Gateway Series

RG-EG3000UE/XE Datasheet



Ruijie Networks Co., Ltd.

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





Product Overview

Ruijie RG-EG3000UE/XE next-generation highperformance integrated gateway is a high-end gateway product tailored for medium to large-scale network scenarios such as universities, Education Bureau, medium to large enterprises and wireless cities. RG-EG3000UE/XE employs the multi-core MIPS hardware architecture combined with Ruijie' s self-developed fast forwarding technology to provide high-speed NAT forwarding performance. The RGEG3000UE/XE next-generation high-performance integrated gateway supports a variety of features including multi-link load balancing, smart DNS, application/user-based routing technologies, smart flow control, AAA (authentication, authorization, and accounting) gateway, online behavior management and visualized IPsec VPN¹. With its smart scheduling and behavior management technologies for network traffic, RG-EG3000UE/XE can effectively optimize the gateway network, improve service performance, manage online behavior and meet the demands of large-scale network gateway for a wide variety of industries.

Highlights

- Smart Flow Control & AAA Integration
- Online Behavior Management
- Integrated IPsec VPN Firewall
- Traffic Analysis
- Centralized Cloud Management
- Intutive Mobile App
- Integrated Internet Audit Log Storage



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

Note: ¹ The VPN feature is not available for Russia regions

- 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

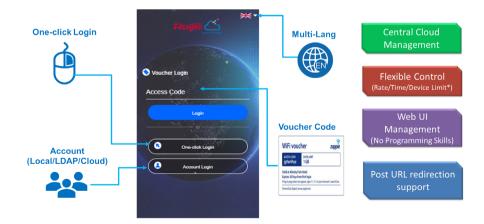
Flexible Authentication²

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 authentication³ 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.



Ruijie EG provide rich access security policy for guest and staff



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

Note:

² Ruijie Cloud integration required

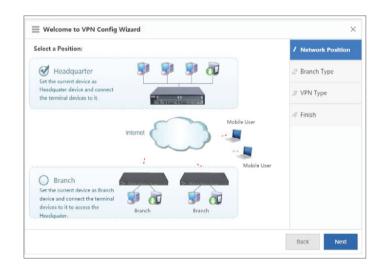
³ In exception with Facebook login and PPSK, of which authentication processing will be at Ruijie Cloud

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 Visualization⁴



Ruijie SME 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.

Note: ⁴ The VPN feature is not available for Russia regions

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.

App Group Name	Selected App	Action
Key App	DNS,Chat,Voip,E-Mail,Vpn-app,OA_office,Video_conferencing	Edit
Web Page	InstantMessaging_MOBILE,HTTP,Web_MOBILE,HTTPS	Edit
Online Video	HTTP-VIDEO,Video_MOBILE	Edit
P2P Video Streaming	STREAMING	Edit
Download	HTTP-DOWNLOAD,FTP,TFTP,NNTP,IXIA,SVN,SMB,DownloadTools_MOBILE,OnlineStorage	Edit
P2P Download	P2P,SoftwareUpdate	Edit
App Update		Edit
Upload	HTTP-UPLOAD	Edit
Rate-Limited App	Games	Edit
Blocked	DNS-ILLEGAL	Edit
Normal App	Tile Transfer Database, NetworklanagementProtocolRouting, Security, RI MOTT- IRKOTOCOL, OnlineBank Same, MOBIE, Social, contact_MOBIE, OnlinePayment]Bank_MOBIE, REC, JCMP-DETAIL, JP-RAW, JP-PROTOCOL-GROUP, HTTP- RROWS-DETAIL_IONine-Shooping	The default grou cannot be edited

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 cloudbased management platform for all the Security Gateway series. No hardware or servers required to be installed on customer premise. Device monitoring, configuration changes & firmware management can be performed easily in anytime, anywhere & anyway.

DASHBOARD	ALL V Q Time Zone. (6MT+8.00)Asia	/Shanghai
ALARM	Gateway List New firmware available for 1 devices	n - x
ANALYSIS	Add Gnewry effect Oselected SPL Alias. Descrip	
	Status SN Allos MGMT IP MAC Public IP Great Firmware Varion Office Time Model Descript	tion Action
Traffic	Status SM Allos MCMT IP MACC Publics IP Create Partmarke Vension Othere Time Model Descript One H1LR11F000F7C Empty 172.17.185.25 6569.5649.0147 111.2014.215.181 Hotel EC.RC06.11.1(6)819 - EC2000CE Empty	B B
	4.800	
	First Previous Page 1 👷 of 1 Next Last 10+	1 in total
Client	and the second s	-
	The second secon	
DEVICE	Ex Mas I have considered	
Access Point		1.00
Switch	Later and the second	-

Ruijie Cloud Management Platform

Gateway Info					
Alias : 💉		SN: HILRITE		MAC: 5869.0	
MGMT Password :		Public IP: 111		MGMT IP: 1	
Model : EG2000C		Online Time :	2018-12-20 16:07:18	Offline Time :	
Description :	EG_RGOS 11.1(6)B19				
Device Status					
Online	Me	mory Usage	CPU Usage		Flash Usage
Online Clients:	8	\sim			
					0%
Applications: 17					
Applications: 17 Sessions: 397 Connectivity		U	C	,	Last 24 Hours Last 7 Da
Sessions: 397	20.06	0.00	400	8.00	Last 24 Misers Last 7 De
Sessions: 397	20.00			800	
Connectivity	20.00	0.00 Upera		8.00	
Connectivity	20.00			8.00	
Connectivity	20.00			8.00	
Connectivity Connectivity Rate Summary	20.00			8.00	
Connectivity	20.00			800	
Connectivity	20.00			800	
Connectivity Connectivity Rate Summary	20.00			880	

Device Status & Traffic Monitoring



Top 10 Applications by Traffic			Top 10 Users by Traffic		
No.	Application	Traffic = Downlink = Uplink	No.	User	Traffic Downlink Uplink
1	HTTP-Single-Threaded	490.83 KB	1	10.10.12.12	490.83 KB
2	OtherHTTPS	17.06 KB 22.62 KB	2	10.10.12.16	17.89 KB 26.13 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_ACK	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	10.10.11.113	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	10	10.10.11.112	90.00 B 83.00 B

Top N Traffic Analysis

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.

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 EG3000UE/XE Security Gateway supports detail logging both on what has happened to the device and what is happening. A local attached 1TB harddisk (purchase separately) provides sufficient storage to keep all the nessecary audit logging trail. It increases the higher logging retential period before it is exported to external logging server.

Home	Behavior Policy	Access Audit Report				
	Access Audit Report	Today's Audit Report				
	Object	User(IP)	Website	Website Type	Access on	Action
₩ Flow	,	/192.168.2.6(192.168.2.6)	http://online.kugou.com/pull?ver=9068&c	UNKNOW CLASS	2019-01-31 17:46:18	Allow
ç.		/192.168.2.6(192.168.2.6)	https://avisec.com	UNKNOW CLASS	2019-01-31 17:45:59	Allow
ehavior		/192.168.2.6(192.168.2.6)	https://www.baidu.com	Blocked	2019-01-31 17:45:59	Blocke
(🏹 Cache		/192.168.2.6(192.168.2.6)	https://baidu.com	Blocked	2019-01-31 17:45:59	Blocke
		/192.168.2.6(192.168.2.6)	http://14.215.177.39/	UNKNOW CLASS	2019-01-31 17:45:49	Allow
ecurity		/192.168.2.6(192.168.2.6)	http://14.215.177.38/	UNKNOW CLASS	2019-01-31 17:45:49	Allow
		/192.168.2.6(192.168.2.6)	https://jpush.cn	UNKNOW CLASS	2019-01-31 17:45:28	Allow
		/192.168.2.6(192.168.2.6)	https://ruijienetworks.com	UNKNOW CLASS	2019-01-31 17:42:25	Allow
(2) letwork		/192.168.2.6(192.168.2.6)	https://cloud.tencent.com	UNKNOW CLASS	2019-01-31 17:39:34	Allow
		/192.168.2.6(192.168.2.6)	https://vivo.com.cn	UNKNOW	2019-01-31 17:36:07	Allow

Top N Traffic Analysis

Techincal Specifications

Model	RG-EG3000UE	RG-EG3000XE	
	Basic Features		
CPU	Multi-core MIPS		
Fixed Ports	8 GE combo ports 8 10G SFP+ ports	8 GE combo ports 8 10G SFP+ ports 2 40G QSFP+ ports	
Hard Disk	1 hard disk slots (hard disks sold separately)	1 hard disk slots (hard disks sold separately)	
Power Slots	2 (Power Supply Unit Included)		
Power Redundancy	Yes (Hot Swappable)		
Memory	32G		
Copper Bypass	1 pair (2 ports)		
Fiber Bypass	2		
Management Ports	1 console port 1 USB 2.0 port		

Model	RG-EG3000UE	RG-EG3000XE	
Dimensions (W x D x H) (mm)	440*550*88.1		
Rack Height	2U		
Weight	14.3KG		
Power Supply	AC input: Rated voltage range: 100V to 240V A Maximum voltage range: 90V to 264 Frequency: 50Hz to 60Hz		
Power Consumption	<150W		
	Performance & Feature	Э	
Performance	42 Gbps (1518 bytes) 30 Gbps (512bytes) 8 Gbps (64 bytes)	60 Gbps (1518 bytes) 40 Gbps (512bytes) 11 Gbps (64 bytes)	
Concurrent Session	8 Mils	16 Mils	
Recommended Concurrent User ⁵	10K	20К	
Portal Authentication Capacity	5K (Max Concurrent Users)	10K (Max Concurrent Users)	
Portal Authentication Type	Username/Password Auth (Local, W One-click Authentication; Guest Voucher (Ruijie Cloud required	indows-based AD/LDAP Integration) d)	
Seamless Authentication (Portal)	Support		
Network Protocol	Support TCP/IP protocols, including I Support multiple routing protocols, in and OSPF Support DHCP Relay and DHCP Ser Support PPPoE Support NAT and multiple NAT ALG Support ARP, trusted ARP, proxy AF Support Ping and Traceroute fault de Support QoS (PQ, CQ, FIFO, WFQ,	ncluding static routing, RIP (V1 / V2) ver including FTP, H.323, DNS, etc. RP, etc. stection	
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, TeInet, LOTUS-NOTES, SQL Server, Oracle, Mysql, HTTPS & etc.		
Network Security	Anti-ARP Spoofing Defense against malicious attacks fro Support secure address binding Block WAN Ping Prevent Port Scan Attack Prevent Fragmentation Attack	om internal and external networks	

Note:

⁵Each user approx. 300 concurrent sessions with 1Mbps internet traffic

Model	RG-EG3000UE RG-EG3000XE
Network Security	Prevent ICMP Flood Attack Prevent Teardrop Attack Prevent Ping of Death Attack Prevent Land Attack Prevent Smurf / Fraggle attack Prevent SYN Flood Attack
URL Filtering	Support custom URLs Support remote HTTP automatic URL library upgrade Local log storage (NAT log, traffic log, URL log, etc.) Support storage on external log server
IPsec VPN Tunnel ⁶	4000
Layer 2 Features	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	Support web authentication Support push advertising page Support IPsec VPN Support smart DNS Support multi-link load balancing Support remote HTTP online upgrade for signature library, software version, etc.
Service and Support	Support multi-link load balancing Support remote HTTP online upgrade for signature library, software version, etc. Lifetime Free signature library upgrade

Typical Application

Ruijie RG-EG3000UE/XE next-generation high-performance integrated gateway is a high-end gateway product tailored for medium to large-scale network scenarios such as Universities, Shopping Centre, International Conference/Event/Festival, Smart Cities and E-government Internet.

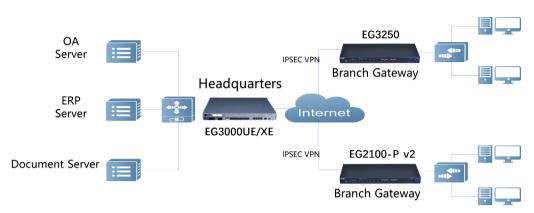
Integrated Authentication, Flow Control and Traffic Analysis for Universities



Integrated Gateway for Authentication, Flow Control and Traffic Analysis in Universities

Application Features:

- Multi-link load balancing makes full use of the limited network bandwidth by efficient traffic allocation based on bandwidth/load
- RG-EG3000UE/XE can be deployed as authentication gateway and integrate with Ruijie Cloud service to achieve easy, secure and flexible unified campus network authentication management
- With application-based routing, designated applications are allocated with specified routes (for example, hightraffic P2P applications are allocated to routes of cheaper bandwidth) for more efficient traffic allocation and saving bandwidth cost
- With build-in HDD storage, NAT/URL internet activities are stored for future internet compliance log purpose



Enterprise Headquarters & Branches

Enterprise site-to-site VPN networks for Headquarters and Branches

Application Features:

- Multi-link load balancing makes full use of the limited network bandwidth by efficient traffic allocation based on bandwidth/load
- 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.
- All VPN traffic and site topology or VPN tunnel status easily be visualized by built-in VPN Web GUI module

Ordering Information

Model	Description
RG-EG3000UE	All-in-one Unified Security Gateway, 8 GE combo ports, 8 SFP+ ports, 1 Hard disk slots (HDD sold separately), 2 Power Slots (Hot Swappable, 2 Power Supply Unit included), 2U RMU (Free lifetime L7 DPI signature update)
RG-EG3000XE	All-in-one Unified Security Gateway, 8 GE combo ports, 8 SFP+ ports, 2 QSFP+ ports, 1 Hard disk slots (HDD sold separately), 2 Power Slots (Hot Swappable, 2 Power Supply Unit included), 2U RMU (Free lifetime L7 DPI signature update)
RG-Gateway-HDD-1T	1T Hard Disk Drive for EG RG-EG3000UE/XE





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