



Ruijie RG-EG3110 Datasheet

Product Overview

- RG-EG3110 is a next-generation multi-service security gateway from Ruijie, designed for branch and headquarters networks in scenarios like ordinary schools, affordable chain hotels, retail chains, and small to medium network edges.
- It integrates stateful firewall, internet behavior management, WAN optimization, traffic control, VPN gateway, network authentication, and wireless controller in one device.
- This integration reduces network operation costs and ensures secure network edge access.
- The device supports flexible security domain segmentation and application-layer filtering, with robust protection against attacks and scanning.
- Advanced internet behavior management audits HTTPS, filters web content, and monitors chat tools and emails to safeguard enterprise data.
- Enterprise-grade wireless controller supports up to 64 APs, optimizes 5GHz bandwidth, and provides load balancing for reliable wireless coverage.
- Supports cloud-based device management for unified operations.

Product Highlights

- **Integrated Multi-Service Gateway:** Combines firewall, VPN, WAN optimization, and wireless controller in one device.
- **Stateful Firewall:** Supports TCP/UDP/ICMP filtering and security domain-based protection.
- **Internet Behavior Management:** Fine-grained control including HTTPS audit and content filtering.
- **Enterprise Wireless Controller:** Manages up to 64 APs with 5GHz priority and load balancing.
- **Comprehensive VPN Support:** IPsec, SSL, L2TP, and PPTP for secure branch interconnection.
- **Cloud Management:** Free integration with Ruijie cloud platform for centralized device operations.

Detailed Features



RG-EG3110

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Component	Specification
Network Interfaces	8 x GE RJ45, 2 x SFP
Firewall Throughput	Up to 3 Gbps
VPN Throughput	Up to 1 Gbps
Wireless AP Management	Supports up to 64 APs
Power Supply	AC 100-240 V, 50/60 Hz



Comprehensive Multi-Service Integration

The RG-EG3110 is designed to serve as a multi-functional gateway, integrating various network and security functions in a single device. It supports stateful firewall, WAN link optimization, VPN gateway, internet behavior management, and network traffic control. This comprehensive integration simplifies the network infrastructure, reducing the number of devices required and lowering maintenance costs. The unified solution not only enhances performance but also improves the overall manageability of branch and headquarter networks.

Stateful Firewall with Advanced Security

Equipped with a robust stateful firewall, the RG-EG3110 provides advanced protection against unauthorized access and potential threats. It supports TCP/UDP/ICMP packet filtering and IP fragment inspection, ensuring data integrity and secure communication. The firewall also allows flexible security domain segmentation, including IP-based and logical interface-based domains. These capabilities enable tailored protection across different network zones, effectively safeguarding enterprise IT infrastructure.

Internet Behavior Management for Data Security

To maintain secure and compliant network usage, the RG-EG3110 features advanced internet behavior management. This includes comprehensive HTTPS auditing, content filtering for websites and search engines, and fine-grained management of applications like instant messaging, email, forums, and social media platforms. The device also generates detailed audit reports, allowing network administrators to gain insights into user activities.

Integrated Wireless Controller

The RG-EG3110 functions as an enterprise-grade wireless controller, managing up to 64 Access Points (APs) without requiring license expansion. It supports dual-band optimization, prioritizing 5GHz connections to enhance bandwidth utilization by 30-40%. Additionally, the device incorporates band-based load balancing, ensuring consistent and high-quality wireless coverage in environments with dense client access. These features make it an ideal choice for large campuses and multi-branch networks.

Versatile VPN Connectivity

The RG-EG3110 offers comprehensive VPN support, including IPsec, SSL, L2TP, and PPTP protocols, catering to various enterprise connectivity needs. With Ruijie's SSL VPN client, compatible with major operating systems like MAC, iOS, Android, and Windows, secure remote access is ensured across diverse platforms. The device supports VPN interconnection between headquarters and branches, facilitating secure data transmission and business continuity.

Application Traffic Control and Optimization

The gateway utilizes advanced Deep Packet Inspection (DPI) and Deep Flow Inspection (DFI) engines to analyze and manage network traffic accurately. Administrators can define rules based on user, application, or link to optimize bandwidth allocation. The generated traffic analysis reports provide data-driven insights into network performance, helping businesses make informed decisions about resource allocation and application prioritization.

Technical Specifications

Product Specifications

Feature	Value
Product Model	RG-EG3110
Interface Specifications	6 x 10/100/1000BASE-T, 1 x 1GE SFP, 1 x RJ45 Console, 1 x RJ45 MGMT (GE0/0), 2 x USB 2.0
System Specifications	Memory: 2GB DDR4, eMMC: 8GB, HDD: No built-in, supports 1TB SATA HDD
Supported Users	Up to 200 concurrent users
Applicable Bandwidth	800M asymmetric bandwidth
Network Deployment	Gateway mode, PPPoE, PPP

Feature	Value
Routing Protocols	IPv4/IPv6, OSPF, RIPv1/v2, Static Routing, Policy Routing
Application Identification	DPI engine, customizable protocol recognition, P2P, streaming, chat, games, HTTP, FTP, SMTP, POP3, IMAP, Telnet, SQL, Oracle, MySQL, HTTPS
Firewall	Stateful inspection, application-layer protocol filtering, attack defense, IP fragment inspection
Traffic Control	User-based and application-based flow control, bandwidth assurance, dynamic bandwidth allocation
Content Auditing	IM auditing, email content auditing, BBS content auditing, search engine auditing
VPN Features	IPsec VPN, SSL VPN, support for iOS, MacOS, Windows, Android
Wireless AC Features	WLAN IDS, rogue device detection and suppression, SSID-based black/white list, STA priority for 5GHz
Security and Management	Web/WeChat authentication, remote upgrade via HTTP
Physical Dimensions	440mm x 200mm x 43.6mm
Operating Temperature	0°C~45°C
Storage Temperature	-10°C~70°C
Operating Humidity	10%RH~90%RH (non-condensing)
Storage Humidity	5%RH~95%RH (non-condensing)

Product Comparison

Feature	RG-EG3110	RG-EG2100-P	RG-EG3250
Interface Specifications	6 x GE, 1 x SFP, 2 x USB	4 x GE, 1 x USB	8 x GE, 2 x SFP, 2 x USB
Supported Users	Up to 200 concurrent users	Up to 100 concurrent users	Up to 500 concurrent users
Bandwidth Capacity	800M asymmetric	300M asymmetric	1.5G asymmetric
VPN Support	IPsec, SSL, L2TP, PPTP	IPsec, L2TP	IPsec, SSL, GRE, L2TP, PPTP
Wireless AC Controller	Manages up to 64 APs	Manages up to 32 APs	Manages up to 128 APs
Smart Routing and Load Balancing	Multi-exit routing, load balancing	Multi-exit routing	Multi-exit routing, intelligent load balancing
Application Layer Filtering	Supported	Supported	Supported
Content Auditing	IM, Email, BBS, Search Engine Auditing	IM, Email Auditing	IM, Email, BBS, Search Engine, File Auditing
Cloud Management	Ruijie Cloud Platform	Ruijie Cloud Platform	Ruijie Cloud Platform



Feature	RG-EG2100-P	RG-EG3250	RG-EG3230
Physical Dimensions	440mm x 200mm x 43.6mm	300mm x 200mm x 44mm	480mm x 300mm x 44mm
Firewall Capability	Stateful inspection, IP fragment filtering	Stateful inspection	Stateful inspection, DoS protection
Traffic Control	User and application-based flow control	User-based flow control	Advanced application flow control
Management Interface	Console (RJ45), MGMT (RJ45)	Console (RJ45)	Console (RJ45), MGMT (RJ45), Web UI
Operating Temperature	0°C~45°C	0°C~40°C	-5°C~50°C
Redundancy Support	No redundancy	No redundancy	Dual power supply

Accessories

Category	Accessories
Included Accessories	- Power Cable
	- Mounting Bracket
	- Quick Installation Guide
Optional Accessories	- Rack Mount Kit: RG-RM-1000
	- SFP Transceivers: EG-SFP-1G
	- PExtended Storage: 1TB SATA HDD



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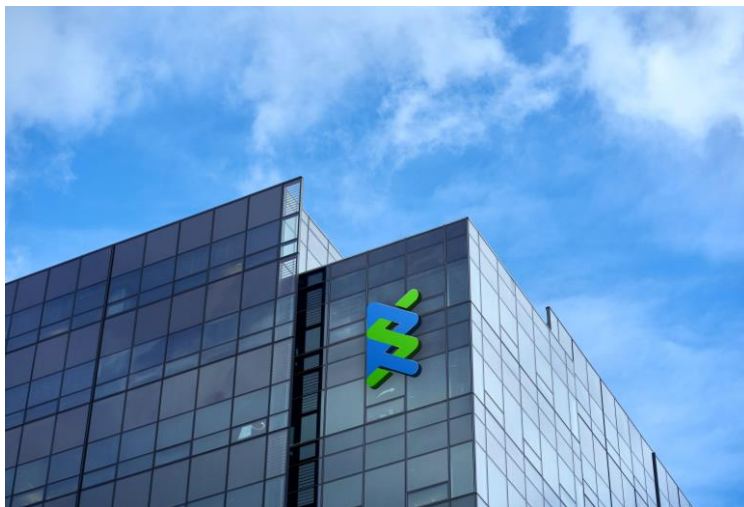


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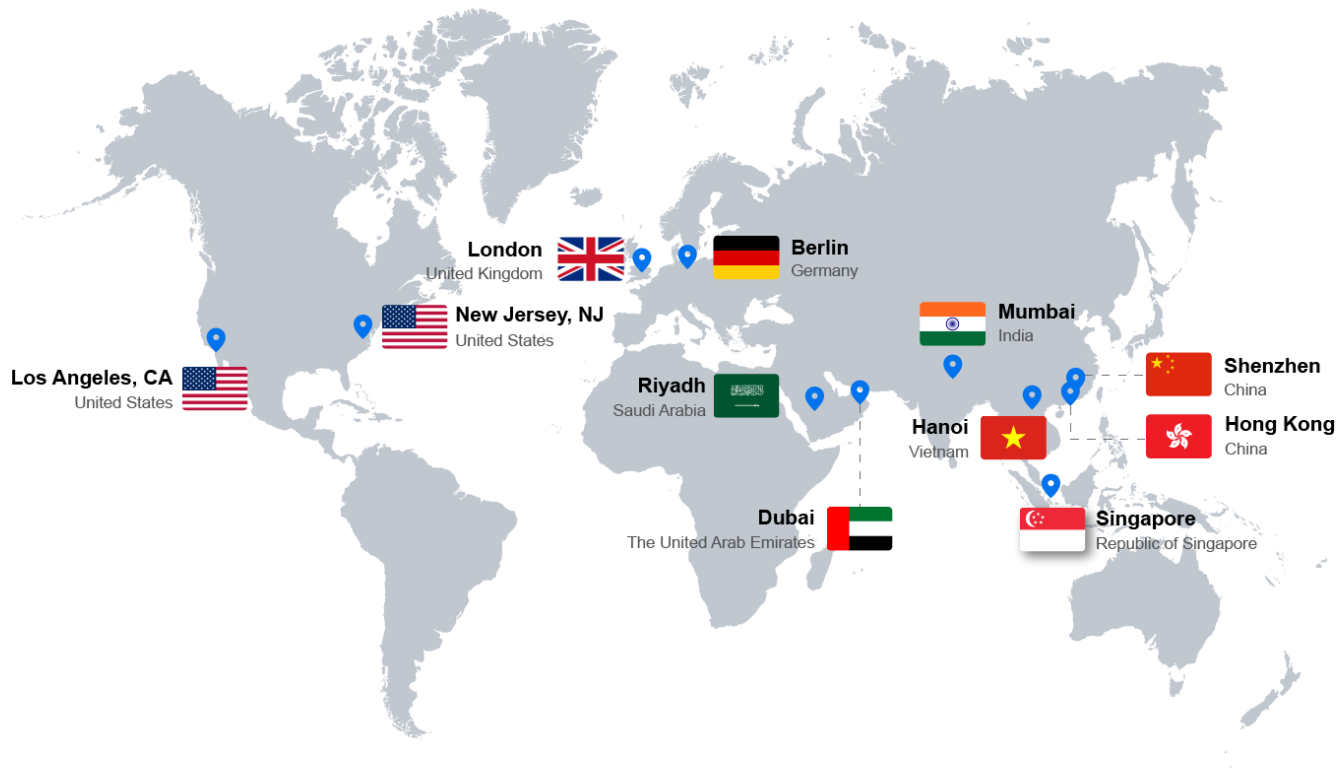
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