

Ruijie RG-WALL 1600-M6600 Next-Generation Firewall Datasheet

Ruijie Networks Co., Ltd.

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Contents

1	PRODUCT PICTURE.....	2
2	PRODUCT OVERVIEW.....	3
3	PRODUCT FEATURES	4
3.1	UNSURPASSED MULTI-SERVICE PROTECTION	4
3.2	COMPREHENSIVE SECURITY & PROTECTION FEATURES.....	4
3.3	UNIFIED & SIMPLIFIED MANAGEMENT	4
3.4	IN-DEPTH USER / APPLICATION DETECTION	4
3.5	USER-BASED POLICY IMPLEMENTATION.....	5
3.6	ABUNDANT INTERFACE VARIETIES	5
4	TYPICAL APPLICATION.....	6
4.1	CAMPUS SECURITY GATEWAY PROTECTION.....	6
4.2	SMALL/MEDIUM-SIZED CAMPUS GATEWAY.....	6
5	TECHNICAL SPECIFICATIONS.....	7
6	ORDERING INFORMATION	12
7	MORE INFORMATION	13

1 Product Picture



RG-WALL 1600-M6600

2 Product Overview

Ruijie RG-WALL 1600-M6600 is a next-gen firewall powering user-based, intelligent network deployment and access control in terms of users, resources and applications. With ASIC hardware chip acceleration technology, the Firewall greatly enhances the processor performance on the application layer security inspection. Various modules such as anti-virus, IPS, behavior monitoring and anti-spam are available to enhance the overall performance. The feature-rich Firewall offers in-depth status inspection, defense against external attacks and application layer filtering for effective network protection.

The Firewall also delivers an extensive library of smart analysis and management features, supporting email alerts and various system logs for streamlined operation. Multiple forms of VPN deployment are also enabled. The Firewall supports hot backup of dual devices, allowing Active/Active and Active/Standby modes to fully meet the demands of high network reliability. The RG-WALL 1600-M6600 Firewall is the best-in-class partner for building a highly secure, efficient and reliable network.

3 Product Features

3.1 Unsurpassed Multi-service Protection

The RG-WALL 1600-M6600 Firewall deploys a unified database of signatures and an analysis processing engine. The features thereby enhance the operation efficiency of multi-service modules running at the same time. The device also maintains premier performance even when all functions are in full operation, fulfilling user demands on high performance and security.

3.2 Comprehensive Security & Protection Features

The Firewall embodies rich security features to meet the requirements of anti-virus, intrusion prevention and so on. High-performance Network Address Translation (NAT), load balancing, traffic control and anti-spam boost access speed and work efficiency. The all-rounded device also supports IPv6 to achieve traffic control and policy execution to guard the IPv6 operation security. Built-in with IPsec VPN, SSL VPN and others, users can access the network with their end devices anywhere and anytime. The Firewall also features online behavior management and content filtering to gain full control on LAN user behavior.

3.3 Unified & Simplified Management

The Firewall enables configuration of all features in a single page including policy, time, anti-virus, IPS and flow control, which greatly reduces the workload of network management, avoids network fault caused by policy conflicts and truly realizes the user-oriented configuration management concept.

3.4 In-depth User / Application Detection

With the next-generation application recognition engine, the Firewall can detect and analyze network traffic without latency. Based on user/ application in-depth fine-grained recognition, the Firewall minimizes the number of protection policies, achieves comprehensive security protection for mobile office and application detection of smart devices.

3.5 User-based Policy Implementation

The Firewall supports both local and remote authentication such as LDAP, RADIUS and TACACS+ to meet various security needs.

3.6 Abundant Interface Varieties

The Firewall offers 10 GE copper ports and 8 SFP ports to meet various protection scenarios demanding high-end port density. The fixed interfaces are readily available and hence independent interface module is no longer required. It totally gets rid of the compatibility problem and maintains streamlined operation.

4 Typical Application

The RG-WALL 1600-M6600 Firewall offers a full range of integrated protection features. With an outstanding hardware platform, the device achieves fast security detection and threat control. Streamlined access to key services with total protection is achieved. Providing security policies based on services, it ensures user legitimacy for access and upgrades the accountability precision of security logs. The RG-WALL 1600-M6600 Firewall protects the network from every perspective with centralized management features such as real-time operation surveillance, unified logs management and policy deployment.

4.1 Campus Security Gateway Protection

The Firewall can act as the gateway of campus network, fulfilling network application and protecting information security. It offers the following values:

- Effectively protect key services from intrusion and viruses
- Auto switching of multiple links to achieve high resiliency and operation continuity
- Real-time surveillance for transparent security management

4.2 Small/Medium-sized Campus Gateway

The Firewall provides better support for IPv6 to meet the requirements of campus network. It offers the following values:

- Deliver 20Gbps high throughput to fully satisfy small-scale campus deployment
- Support IPv6 features such as traffic control and security policies to better protect IPv6 applications in the campus
- Enable virtualized firewall for enforcing security policies for different services

5 Technical Specifications

Model	RG-WALL 1600-M6600
Hardware Specifications	
Fixed Ports	10 GE ports (RJ45), 8 SFP ports
Management Port	1
Console Port	1 (RJ45)
USB Port	1 Client, 2 Server
Internal Storage	16GB
Performance and Capacity	
Firewall Throughput (64/ 512/ 1518 bytes)	12Gbps
Firewall Latency	3us
Concurrent Sessions	6 Mil
New Sessions/Sec	180,000
IPsec VPN Throughput	7Gbps
IPsec Tunnel	2,000
SSL-VPN Throughput	400Mbps
SSL-VPN Tunnel	5,000
IPS Throughput	2.8Gbps
Antivirus Throughput (Proxy Based / Flow Based)	1.4Gbps / 2.5Gbps
Operation Mode	
Layer 2 (Transparent Mode)	Support
Layer 3 (Routing and NAT Mode)	Support
Hybrid Mode	Support
NAT (Network Address Translation)	Support
PAT (Port Address Translation)	Support
VLAN Routing	Support
Number of Users Per Port	Unlimited
Firewall Features	

Stateful Inspection Packet Filtering	Support
Application Layer Protocol Inspection	Support
MAC/IP Binding	Support
Security Domain	Support
Anti-Scanning and Anti-DoS Attack	Support
Anti ARP Spoofing, ARP Active Probing	Support
Connection Limits	Support
Temporary Blocking	Support
Customized Packet Capture	Support
Routing Features	
OSPF Dynamic Routing	Support
RIP Dynamic Routing	RIPv1/v2 support
Static Routing	Support
Multicast Routing	Support
H.323 over NAT	Support
Policy-Based Routing	Support
DHCP	Support DHCP Server, DHCP Client, DHCP Relay
PPPoE	Support
VPN Features	
VPN Tunnels	Flexible on-demand configuration
Types of VPN Supported	GRE, L2TP, IPsec, SSL VPN
Encryption Standard	DES, 3DES, AES
Authentication Algorithm	SHA1, MD5
Perfect Forward Secrecy (PFS)	Support
IPsec Protocol	Support
Manual Key, IKE	Support
Peer Authentication	Extensible Authentication Protocol Support
IPsec NAT Traversal	Support
Dynamic VPN Access	Support
QoS	Support
Collaboration With Other Mainstream VPN Devices	Support
Content Filtering	
URL Filtering	Support
Web Content Filtering	Support

Script, Cookie Filtering	Support
Web Proxy Filtering	Support
Anti-Spam	Support
Email Address Filtering	Support
Email Attachments Shield	Support
Email Size Filtering	Support
Policy-Based Content Filtering	Support
Anti-Virus	
Virus Filtering Based on HTTP\FTP\SMTP\POP3\IMAP Protocol	Support
Virus Filtering for IM File Transfers	Support
VPN Traffic Virus Filtering	Support
Blocking Specific File Types	Support
Online Virus Database Updates	Support
Intrusion Detection and Prevention	
Self-Recognition Protocol	Support
Attack Signature Database	Support
Anti Worms, Backdoor Trojans, Phishing and Other Attacks	Support
Multiple Policy Sets	Support
Signature Database Upgrade	Support
Customized Signature Database	Support
IPv6	
IPv6 Ready Certificate	Support
IPv4/IPv6 Dual Stack	Support
Policy/Content Filtering/IPS Inspection/Traffic Control/VPN	Support
Static Route/RIPng/OSPFv3	Support
IP-based Traffic Control	Support
DHCPv6 Server and Relay	Support
Internet Behavior Management	
IM Software Login Control and File Transfer Control	Support
Speed Control of P2P Software	Support

Streaming Media Software Speed Control	Support
Online Game Control	Support
Stock Software Control	Support
System Management	
Local Administrator Database	Support
Restrictive Management Network	Support
Administrators Classification	Support
Software and Signature Updates	Support
Time Synchronization	Support
Configuration Changes	Support web, command line
Certificate Authentication	Support
Management Methods	Support web, command line
Standard MIB or Private MIB	Support
SNMP	Support SNMPv1/v2/v3
Centralized Management	Support
Local Management	Support
Remote Management	Support
Shell Session	Support
Virus Database Updates	Support
Logs Monitoring	
Internal Log Database	Support
External Log Server	Support
Remote System Log Server	Support
Real-Time Statistics	Support
Log Level	Support
Log Backup	Support
System Status Display	Support
Alarm Mode	Support
High Availability	
HA Mode	Support routing mode and transparent mode HA
Configuration File / Change Synchronization	Support configuration and status synchronization
Signature Database Synchronization	Support
HA Device Authentication	Support

HA Data Encryption	Support
Dimensions and Power	
Dimensions (H x W x D) (mm)	44 x 432 x 322
Rack Mount Height	1U
Power Consumption	202W
Power Redundancy	Yes (External RPS)
Environment	
Operating Temperature	0 to 40°C
Storage Temperature	-25 to 70°C
Storage Humidity	20% to 95%

6 Ordering Information

Model	Description
RG-WALL 1600-M6600	RG-WALL 1600-M6600 Next-Gen Chassis Firewall (10 GE ports, 8 SFP ports, 1U)
RG-WALL 1600-M6600-LIS-1Y	RG-WALL 1600-M6600 Anti-Virus Signature Database, IPS Signature Database, Application Signature Database, Spam Database and Website Classification Database 1-Year License
FRPS-100	External Redundant Power System (RPS) System for RG-Wall 1600-M5100 and M6600 series firewall

7 More Information

For more information about the Ruijie RG-WALL 1600-M6600 Next-Gen Chassis Firewall, please visit <http://www.ruijienetworks.com> or contact our local Ruijie sales representative.

Ruijie Networks Co.,Ltd

Headquarter in Beijing

Address: Floor 11, East Wing, ZhongYiPengAo Plaza, No.29 Fuxing Road, Haidian District, Beijing 100036,China
Email: info@ruijie.com.cn
Tel: (8610)5171-5961
Fax: (8610)5171-5997

Regional Office in HongKong

Address: Unit 09,20/F, Millennium City 2, 378 Kwun Tong Road, Kowloon,Hong Kong
Email: sales-hk@ruijienetworks.com
Tel: (852) 3620-3460
Fax: (852) 3620-3470

For further information, Please visit our website:[//www.ruijienetworks.com](http://www.ruijienetworks.com)

Supply Chain in Fuzhou

Address: JuYuan Start-net Ruijie Technology Park, No. 618 JinShan road, Fuzhou City, 350002, China
Tel: (86591) 83057888
(86591) 83057000

Regional Office in Malaysia

Address: Office Suite 19-12-3A, Level 12, UOA Center, No.19 Jalan Pinang, 50450 Kuala Lumpur
Email: sales-my@ruijienetworks.com
Tel: (60) 166770838

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