

***Security Gateway
Load-Balancer
VPN server
WiFi APs controller
PoE Switch***



**Data General Load-Balancing
Security Gateway
DG-SG2100-2W8GP-135W**



1. Product Overview

This Data General Security Gateway is equipped with a high-performance, multicore MIPS hardware architecture. This enables it to perform a wide range of functions, including high-performance NAT, WAN load balancing, intelligent traffic control, online behavior management, visualized IPsec VPN, and web authentication, among others.

In addition, it is compatible with Data General WIS Cloud. When combined with switches and wireless access points, Data General WIS Cloud delivers a secure and comprehensive networking platform. This enables centralized management, including device monitoring, configuration management, and firmware management.



2. Key Features

Intelligent Traffic Control and 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 Authentication

With integration with Data General WIS Cloud Service, the Data General Dg-SG2100 Security Gateway provide the easy, secure and flexible authentication experience for various business scenarios.

All account or portal management can be managed at Data General WIS Cloud centrally, but all authentication¹ are processed locally at SG Gateway, which guarantee for authentication performance and the highest availability, such that any connectivity error with Data General Cloud service will not bring any service interruptions to the user authentication service.

Online Behavior Management

Data General SG 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 Visualization

Data General SG2100 Security Gateway has significantly simplified the VPN configuration, which could be completed just by a few clicks, eliminating the need for professional maintenance. The

¹ In exception with Facebook login and PPSK, of which authentication processing will be at Ruijie Cloud

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 Data General SG2100 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 Data General Cloud services, the Data General SG2100 Security Gateway is now able to be monitored & managed from the centralized cloud services. Data General Cloud is the free cloud-based 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.

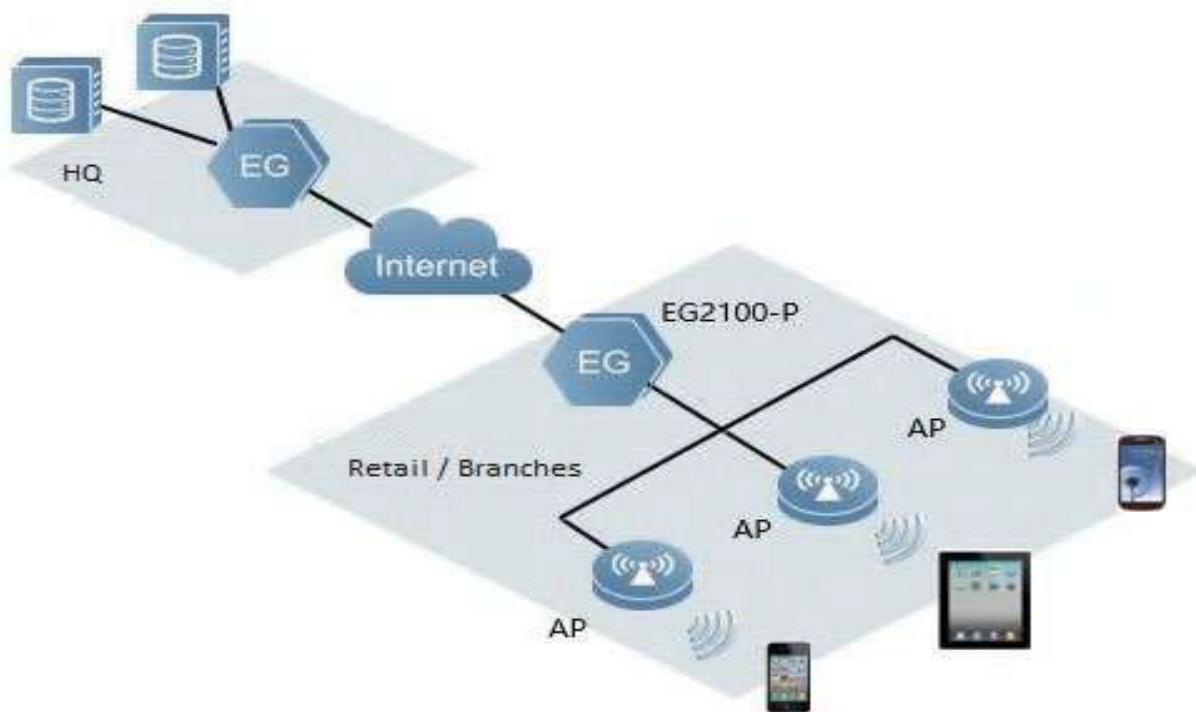
Apart from the accessing cloud management dashboard from workstation, Data General offer an alternative to manage Security Gateway from your fingertips, a tailor-made Mobile App you can download from Google Play and Apple Appstore. You can now access to Security Gateway even you're away from your PC.

App Caching for Download Acceleration

Data General SG2100 Gateway provide exclusive Caching technology for any media files resources and Mobile App (Google Android APK and IOS Store), the files will download from SG 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.

One of most popular application is for shopping malls, retails chain, F&B, Airport, Metro Company with own Mobile App for business, membership promotion, and value-added service. Guest or Vistors 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.

Built-in Power-Over-Ethernet (POE)



Designed for retail, small organizations and distributed enterprises with remote and branch offices, the DG-SG2100-2W8GP-135W 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

Hardware Specification	
CPU	Multi-core MIPS
Fixed Ports	8 1000BASE-T ports (7x POE/POE+)
WAN Ports	Upto 2
Flash	4GB EMMC
Hard Disk	N/A
Memory	512M
Performance & Feature	
Performance	1000Mbps (1518 bytes)
	450Mbps (512bytes)
	70Mbps (64 bytes)
Concurrent Session	100,000
Recommended Concurrent User ²	300
Portal Authentication Capacity	100 (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
Cache Resources	Android APK & Apple IOS

² Each user approx. 300 concurrent sessions

Network Protocol	<p>Support TCP/IP protocols, including IP, ICMP, TCP, UDP, etc.</p> <p>Support multiple routing protocols, including static routing, RIP (V1 / V2) and OSPF</p> <p>Support DHCP Relay and DHCP Server</p> <p>Support PPPoE Client</p> <p>Support NAT and multiple NAT ALG including FTP, H.323, DNS, etc.</p> <p>Support ARP, trusted ARP, proxy ARP, etc.</p> <p>Support Ping and Traceroute fault detection</p>
Application Visibility	<p>Support self-developed 43 types of applications / more than 120 application features, customizable protocol identification:</p> <p>P2P: BitTorrent, eMule, Thunder, EDONKEY, FlashGet & etc.</p> <p>Multimedia: YouTube, Facebook Video, WebEx Conference & etc.</p> <p>Social Media: Facebook, Twitter, LinkedIn, Pinterest & etc.</p> <p>VOIP/Chat: Skype, Viber, Google Hangout, Jabber, Facebook Messenger & etc.</p> <p>Instant Messaging/Email: Gmail, MSN, QQ, YAHOO & etc.</p> <p>Software Update: Window, McAfee, Kaspersky, ESET & etc.</p> <p>Cloud-based File Collaboration: GoogleDrive, Dropbox, OneDrive, iCloud & etc.</p> <p>Enterprise Application : HTTP, FTP, SMTP, POP3, IMAP, Telnet, LOTUS-NOTES, SQL Server, Oracle, Mysql, HTTPS & etc.</p>
URL Filtering	<p>Support custom URLs</p> <p>Support remote HTTP automatic URL library upgrade</p> <p>Local log storage (NAT log, traffic log, URL log, etc.)</p> <p>Support storage on external log server</p>
WAN Load Balancing	Support (upto 2 WAN Port)
IPsec VPN Tunnel	16 ³
Network Security	<p>Anti-ARP Spoofing</p> <p>Defense against malicious attacks from internal and external networks</p> <p>Support secure address binding</p> <p>Block WAN Ping</p> <p>Prevent Port Scan Attack</p> <p>Prevent Fragmentation Attack</p> <p>Prevent ICMP Flood Attack</p> <p>Prevent Teardrop Attack</p>

³ The VPN feature is not available for Russia regions

	Prevent Ping of Death Attack Prevent Land Attack Prevent Smurf / Fraggle attack Prevent SYN Flood Attack
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
Weight	2KG
Power Supply	100-240V~,50-60Hz,3A
PoE Budget	135W
Power Consumption	<150W
Dimensions (W x D x H) (mm)	200×200×43.6
Operating Temperature	0°C to 45°C
Operating Humidity	10% to 90%RH

Typical Applications

Data General 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.

Application Features:

- Support integration with AAA authentication and Data General WIS 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 provide ultrafast O2O Mobile App download experience.

Ordering information

Main unit

Model	Description
DG-SG2100-2W8GP	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.

Warranty

For more information about **Data General**, please visit the official **Data General** website or **contact your local sales representative**.

- Warranty conditions: <https://www.datageneral.co/warranty>

Note: Warranty terms are subject to the policies and conditions of different countries and distributors.

More information

For more information about Data General, please visit the official **Data General** website or contact your local sales office.

- Data General website: <https://www.datageneral.co/>
- On line support: <https://www.datageneral.co/support>
- Contact phone: <https://www.datageneral.co>
- Email support: support@datageneral.co

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