



**HUAWEI Secospace
USG2000&5000 Datasheet**

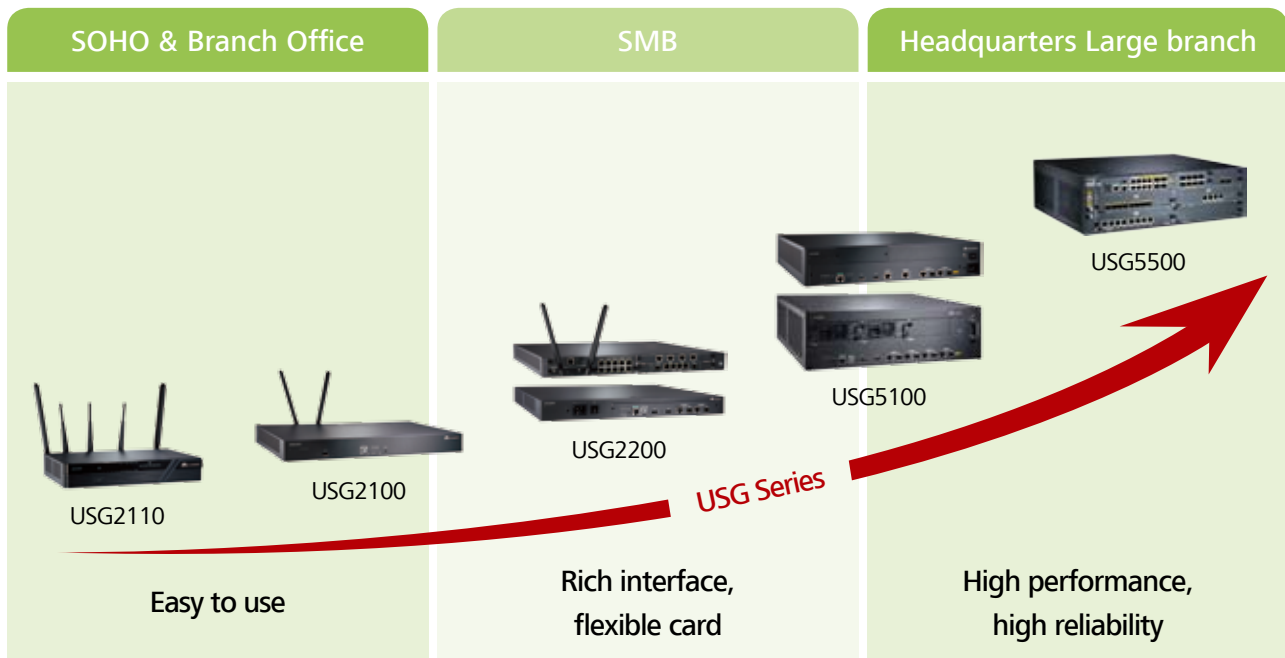




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Products Overview

The USG2000/5000 series is Huawei's unified security gateway developed to meet the network security needs of various organizations including the government, enterprises, and data centers. Based on industry-leading software and hardware architectures, the USG2000/5000 series offers user-based security policies which integrate the professional security technologies including IPS, anti-virus (AV), URL filtering, application control, and anti-spam (AS). This series supports IPv6 protection and related transition technology, and provides powerful, scalable, and sustainable security capabilities for customers in sectors as diverse as government, banking, power generation, telecommunications, petroleum, education, and manufacturing.



Product Features

Exceptional performance and high stability

- **Superior performance for mass service processing:** a maximum of 32G firewall throughput, 7G VPN throughput, and high-capacity NAT.
- **High-density ports for various application scenarios:** Supports 10-Gigabit interface expansion, providing up to 64 xGE interfaces and 14x10GE interfaces.
- **Super-long MTBF, ensuring service continuity:** Redundant configuration of key components, mature link switchover, and built-in bypass cards (supported by only the USG5000) prevent hardware failures for extensive periods. A stable software platform for over 10 years' commercial use and more than 100,000 devices on live networks around the world makes for you a sustainable working environment.

Professional security for secure networks

- **Industry-leading AV engine with 99% identification accuracy:** Based on Symantec's extensive experience in AV technology, the AV engine features file-class content scanning. The USG2000/5000 series integrates the AV technology with global-leading emulation environment and virtual execution technology to provide a 99% identification ratio, acknowledged by numerous international assessment organizations.
- **Professional IPS engine, disabling attack variants:** With traditional attack code-based defenses, a huge signature database needs to be maintained and updated to defend against attack variants. This overloads the IPS engine and leads to substandard detection performance and a high rate of false negatives and false positives. The USG2000/5000 series is backed by Symantec's advanced vulnerability defense technology and delivers virtual patches for vulnerabilities (instead of attack code), disabling various attack variants.
- **Comprehensive AS capabilities:** ensures the security of enterprise mail servers. Employees' emails are filtered based on the mail body, subject, keyword, or attachment to avoid information leak and the import of insecure factors.
- **Real-time updates by a professional team, defending against zero-day attacks:** A globally deployed honeynet system, together with a professional team of over 300 people, make it possible to keep abreast of the latest, hottest, and most dangerous system and software vulnerabilities. You get rapid defense against zero-day attacks and a more secure office network.

Online behavior management, improving employee productivity

- **Plentiful website categories, building a green Internet access environment:** The URL database containing 6.5 million website URLs and over 130 content categories helps to shield against Trojan horse-embedded and phishing sites, block pornographic and gambling sites, delivers green network environment, regulate employee online behaviors and prevent them from engaging in activities that would harm internal network security, and avoid lawful risks.
- **Sophisticated application management, creating an efficient office network:** The USG2000/5000 series identifies over 1200 application protocols. Multi-dimensional control measures based on the time, applications, users, bandwidth, and connection numbers ensure bandwidth for mission-critical services and improve the bandwidth usage. You can work more efficiently and have P2P, IM, game sites, and other websites under control.
- **Various reports:** The USG2000/5000 series displays user behaviors by user, application, traffic, and behavior to help you learn about network status.

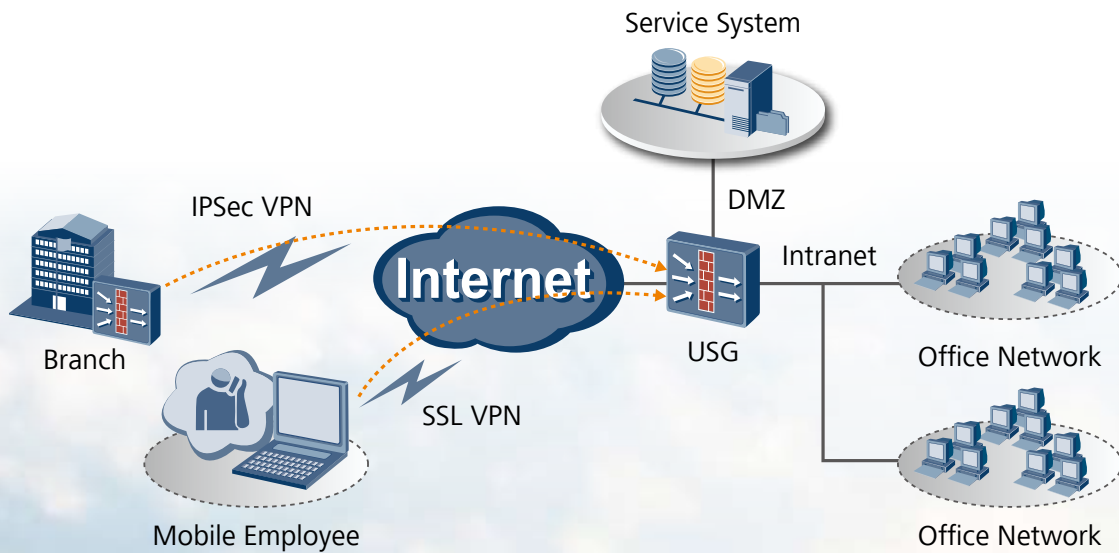
Flexible configuration and quick deployment

- **User-oriented security policy:** The USG2000/5000 series provides authority control of fine granularity based on technologies such as user-based access control, traffic limiting, application control and content security, and policy-based routing. Free from the complexity of IP-based configuration, the USG2000/5000 series is easy and flexible to configure and provides more accurate authority control.
- **Unified policy configuration:** You can configure all policies on a centralized configuration interface, which simplifies, speeds up, and ensures the completeness of the configuration.
- **Professional configuration wizard:** The USG2000/5000 series provides a Web-based configuration wizard and a friendly user interface to guide administrative operations.

Application Scenarios

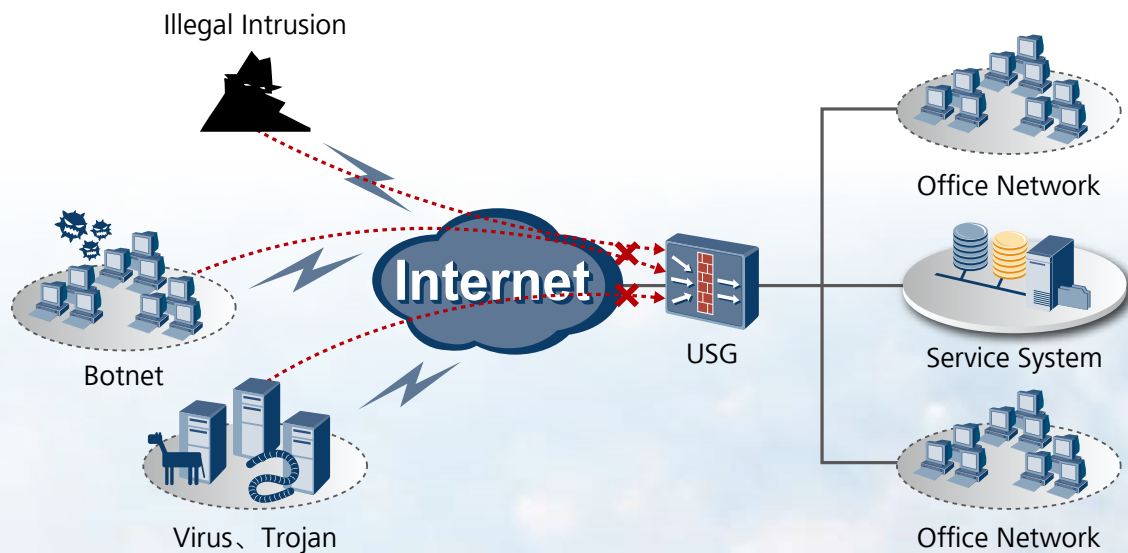
Network Isolation and VPN Interconnection

- **Challenges for customers:** Network areas are not clearly divided, access control is insufficient, and the data transmitted between mobile employees or branches and the headquarters is likely to be intercepted or tampered.
- **Highlights of the solution:** delivers high throughput to avoid bottleneck at network borders, supports security zones to clearly divide networks, offers flexible packet filtering policies to accurately control communication, and decapsulates and checks packets of VPN users to ensure the security of data communication.



External Threat Prevention

- **Challenges for customers:** Coming along with the abundant Internet resources are threats such as DDoS attacks, malicious intrusions and viruses.
- **Highlights of the solution:** The capabilities of supporting large numbers of concurrent connections and new connections per second help to combat the numerous DDoS attacks. Empowered by Symantec's advanced IPS and anti-virus technologies as well as vulnerability-based and real-time updated signature database, the USG2000/5000 series implements near-zero false positives and negatives and a detection ratio of higher than 99%; defends against diversified threats from the Internet, and ensures the security of the intranet.



Product Specifications

Model	USG2110F/FW	USG2110AW/AGWW/AGWC	USG2160/W
Performance and Capacity			
Firewall throughput	180Mbps	180Mbps	200Mbps
Number of concurrent VPN tunnels	64	64	64
Number of new connections per second	2000	2000	3,000
Maximum number of concurrent connections	100,000	100,000	200,000
Expansion and I/O			
Fixed interfaces	2*10/100 WAN+8*10/100 LAN, WiFi(w Model)	1*10/100 WAN+1ADSL+8*10/100 LAN, WiFi	1*10/100 WAN+8*10/100 LAN, WiFi(w Model), 3G
Expansion slots	/	/	2 MIC
Interface module types	N	N	FE,GE,ADSL2+,G.SHDSL,E1/CE1,SA,3G
Specifications			
Dimensions (H x W x D)	280mm × 190mm × 35mm	280mm × 190mm × 35mm	420mm × 255mm × 44.45mm
Weight (full configuration)	<2.0 kg	<2.0 kg	5.0 kg
AC power supply	AC:100 ~ 240V	AC:100 ~ 240V	AC:100 ~ 240V
DC power supply	/	/	/
Maximum power consumption	54W	54W	100W
Operating environment	Temperature: 32 to 113°F (0 to 45°C); humidity: 10% to 90%		
Storage environment	Temperature: -40 to +158°F (-40 to +70°C); humidity: 5% to 95%		

Model	USG2230	USG2260	USG5120	USG5150
Performance and Capacity				
Firewall throughput	900Mbps	2Gbps	2.5Gbps	4Gbps
Number of concurrent VPN tunnels	2000	2000	4000	4000
Number of new connections per second	20,000	20,000	40,000	40,000
Maximum number of concurrent connections	1,000,000	1,000,000	1,200,000	1,200,000
Expansion and I/O				
Fixed WAN Ports	2GE-Combo	2GE-Combo	2GE+2GE-Combo	4GE-Combo
Expansion slots	4 MIC + 2 FIC	4 MIC+2 FIC	2DFIC+2FIC+4MIC	4DFIC+2FIC+4MIC
Interface module types	FE, GE, 3G, WiFi, ADSL2+, G.SHDSL, E1/CE1, SA,bypass*			
Specifications				
Dimensions (H x W x D)	442mm × 420mm × 44.45mm	442mm × 420mm × 44.45mm	442mm × 414mm × 86.1mm	442mm × 414mm × 130.5mm
Weight (full configuration)	5.4 kg	5.4 kg	6.5 kg	8.3 kg
Power supply	AC:100V ~ 240V	AC: 100V ~ 240V	AC:100 ~ 240V	AC:100 ~ 240V, supporting redundancy
/	/	DC: -48 ~ -60V	DC:-48 ~ -60V	DC:-48 ~ -60V, supporting redundancy
Maximum power consumption	100W	100W	210W	300W
Operating environment	Temperature: 32 to 113°F (0 to 45°C); humidity: 10% to 90%			
Storage environment	Temperature: -40 to +158°F (-40 to +70°C); humidity: 5% to 95%			

*Notes: Only USG5120/USG5150 supports Bypass Card;

Model	USG5520S	USG5530S	USG5530	USG5550	USG5560
Performance and Capacity					
Firewall throughput	6Gbps	10 Gbps	15 Gbps	25Gbps	32Gbps
VPN throughput	4 Gbps	5 Gbps	7 Gbps	7 Gbps	7 Gbps
Number of concurrent VPN tunnels	15,000	15,000	15,000	15,000	15,000
Number of new connections per second	100,000	150,000	200,000	200,000	200,000
Maximum number of concurrent connections	2,000,000	3,000,000	4,000,000	4,000,000	4,000,000
Expansion and I/O					
Fixed interfaces	4 × GE (RJ45) +4 × GE (combo)		4 × GE (RJ45) +4 × GE (combo)	4 × GE (RJ45) +4 × GE (combo)	4 × GE (RJ45) +4 × GE (combo) +8 × GE (SFP)
Interface module types	2 × FIC		1 × DMIC+5 × FIC	1 × DMIC+5 × FIC	1 × DMIC+5 × FIC
Interface module types	DMIC: 2 × 10GE (SFP+) FIC: 2 × 10GE (SFP+), 2 × 10GE (SFP+) +8 × GE (RJ45), 8 × GE (RJ45), 8 × GE (SFP), 4 × GE (RJ45) BYPASS, 2 Line (LC/UJC) BYPASS				
Specifications					
Dimensions (H x W x D)	1.7 × 16.6 × 22.0 in.		5.1 × 16.6 × 16.3 in.		
	(43.6 × 442 × 560 mm)		(130.5 × 442 × 415 mm)		
Weight (full configuration)	19.6 lbs (8.9 kg)		39.6 lbs (18 kg)		
AC power supply	100 ~ 240V, supporting redundancy				
DC power supply	Not support			-48 ~ -60V, supporting redundancy	
Maximum power consumption	150 W		300 W		
Operating environment	Temperature: 32 to 113°F (0 to 45°C); humidity: 10% to 90%				
Storage environment	Temperature: -40 to +158°F (-40 to +70°C); humidity: 5% to 95%				

Feature	
IPS	Defends system vulnerabilities, defends against unauthorized download, spoofing software, and spyware/adware, and provides protocol identification.
AV	Supports file identification and filtering, efficient virus scanning, and can detect more than 7,000,000 viruses.
AS	Supports local whitelist, local blacklist, remote real-time blacklist, content filtering, keyword filtering, and mail filtering based on the types, sizes, and numbers of attachments.
URL Filtering	Identifies more than 65 million URLs (blacklist/whitelist filtering, remote category filtering, user-defined category filtering, search engine keyword filtering, malicious URL filtering, and phishing site filtering).
Application Control	Identifies and manages over 1200 application protocols covering all mainstream applications, such as QQ, Amazon, Twitter, MSN, GoogleTalk, Youtube, Facebook, BitTorrent, and Skype
VPN	IPSec VPN, SSL VPN, MPLS VPN, GRE VPN, L2TP VPN
Anti-DDoS	Defends against various DoS and DDoS attacks, such as SYN flood, ICMP flood, and UDP flood attacks.
Routing	IPv4: Static, RIP, OSPF, BGP, IS-IS
	IPv6: RIPng, OSPFv3, BGP4+, IPv6 IS-IS, IPv6RD, ACL6
Deployment and Reliability	Supports transparent, routing, and composite deployment modes, and active/active and active/standby backup modes.



Order Information

Model	Part Description
1.1	USG Host
USG2110-F	USG2110-F AC Host, 2FE+8FE
USG2110-F-W	USG2110-F-W AC Host, 2FE+8FE, 802.11 a/b/g/n
USG2110-A-W	USG2110-A-W AC Host, 1FE,1ADSL+8FE, 802.11 a/b/g/n
USG2110-A-GW-W	USG2110-A-GW-W AC Host, 1FE, 1ADSL+8FE, 802.11 a/b/g/n, Built-in 3G-WCDMA
USG2110-A-GW-C	USG2110-A-GW-W AC Host, 1FE, 1ADSL+8FE, 802.11 a/b/g/n, Built-in 3G-CDMA2000
USG2160	USG2160 AC Host, 1FE+8FE, 2MIC
USG2160W	USG2160 AC Host, 1FE+8FE,802.11 a/b/g/n,2MIC
USG2230	USG2230 AC Host, 2GE Combo, 4MIC+2FIC
USG2260	USG2260 AC Host, 2GE Combo, 4MIC+2FIC
USG5120	USG5120 AC Host, 2GE+2GE Combo, 4MIC+2FIC+2DFIC
USG5150	USG5150 Host, 4GE Combo, 4MIC+2FIC+4DFIC
USG5520S	USG5520S AC Host, 4GE+4GE Combo, 2FIC
USG5530S	USG5530S AC Host, 4GE+4GE Combo, 2FIC
USG5530	USG5530 AC Host, 4GE+4GE Combo, 1DMIC+6FIC
USG5550	USG5550 AC Host, 4GE+4GE Combo, 1DMIC+5FIC
USG5560	USG5560 AC Host, 4GE+8GE(SFP)+4GE Combo, 1DMIC+5FIC

Model	Part Description
1.2	Interface Extension Module of the USG
MIC	
MIC-1E1	1-port E1 interface card
MIC-1CE1	1-port channelized E1 interface card
MIC-3G-WCDMA	3G-WCDMA interface card
MIC-3G-CDMA2000	3G-CDMA2000 interface card
MIC-1G.shdsl	1 Channel G.shdsl Interface card
MIC-2G.shdsl	2 Channel G.shdsl Interface card
MIC-4G.shdsl	4 Channel G.shdsl Interface card
MIC-1FE	1-Port Fast Ethernet Electrical Interface card
MIC-5FE	5-Port Fast Ethernet Switch Electrical Interface card
MIC-1SA	1-Channel Sync/Async Serial Port Interface card
MIC-2SA	2-Channel Sync/Async Serial Port Interface card
MIC-ADSL2+	1-port ADSL interface card
MIC-WIFI	1-port Wi-Fi interface card
DMIC-8FE2GE	8FE(RJ45)+2GE(RJ45) Mixed Interface card
DMIC-2SFP+	2SFP+10G Interface Board, with HS General Security Platform Software

Model	Part Description
FIC	
FIC-2E1	2-port E1 interface card
FIC-2CE1	2-port channelized E1 interface card
FIC-4E1	4-port E1 interface card
FIC-4CE1	4-port channelized E1 interface card
FIC-8E1	8-port E1 interface card
FIC-8CE1	8-port channelized E1 interface card
FIC-2FE2FEC	2-port 100M+2-port 100M optical/electrical (mutually exclusive) interface card
FIC-1GE-RJ45	1-port Gigabit interface card
FIC-4GE-RJ45	2-port Gigabit interface card
FIC-8GE	8-port GE Electrical Interface Card(RJ45)
FIC-8SFP	8-port GE Optical Interface Card
FIC-2SFP+	2-port 2SFP+10G Interface Card
FIC-2SFP+&&8GE	2SFP+10GE+8*GE Interface Card
FIC-4GE Bypass	2-channel Electrical Ports Bypass Card
FIC-2SFP Bypass	2-channel Optical Ports Bypass Card
DFIC	
DFIC-16GE4SFP	16GE(RJ45)+4GE(SFP) Mixed Interface card
DFIC-18FE2SFP	18FE(RJ45)+2GE(SFP) Mixed Interface card


Model	Part Description
USG LICENSE	
LIC-VFW	Virtual firewall(5/10/25/50/100)
LIC-SSL	SSL VPN(10/20/50/100)
USG UTM LICENSE	
LIC-IPS	USG-IPS Update service(12,36 Months)
LIC-AV	USG-Anti-virus Update service(12,36 Months)
LIC-AS	USG-Anti-Spam Update service(12,36 Months)
LIC-URL	USG-URL Filter Update service(12,36Months)
LIC-4IN1	USG-IPS/AV/AS/URL Update service(12,36 Months)

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