

FortiGate®-5001A

Large Enterprises
Service Providers / Carriers
Higher Education

Datasheet

10-Gigabit Ready FortiGate Multi-Threat Security Systems

Modern Threats to IT Networks

Threats against today's networked assets are complex, with targeted attacks that aim to impact business by penetrating systems, stealing confidential information, creating denial of service conditions, or causing costly network outages. The increases in server density within the data center, primarily from server virtualization technologies, combined with the increased adoption of 10-Gigabit Ethernet networks, only compound the challenge of providing effective network security. Point-based security appliances fall short of addressing the security and performance requirements of large networks due to increases in threat complexity and lack of integration among defense mechanisms. The FortiGate®-5000 series multi-threat security platform addresses both security and performance needs by integrating multi-threat protection into purpose-built hardware that effectively blocks multiple threats while maintaining network continuity, even at 10-Gigabit speeds.

Next Generation FortiGate-5000 Series Security

FortiGate-5000 series multi-threat security systems provide essential network defenses that keep networks running smoothly and securely by integrating multiple security services into a modular and extensible chassis-based platform. The FortiGate-5001A is a high-performance security blade that integrates: enterprise firewall, Virtual Private Network (VPN), intrusion prevention, antivirus/antimalware, Web filtering, antispam, and application control features. The FortiGate-5001A offers flexible network interface options, including optional hardware-accelerated Gigabit and 10-Gigabit Ethernet support. With three chassis models of varying capacity and an array of network security modules, large enterprises and service providers can easily grow the capacity of the FortiGate-5000 series system as the business grows or security requirements change.



FortiGate-5001A (FG-5001A-DW)



FortiGate-5001A (FG-5001A-SW)



ASM-FB4
(4-Port GigE Hardware Accelerated)



ADM-XB2 Module
(2-Port 10-GigE Hardware Accelerated)



ASM-S08 Module
(80GB Hard Drive Storage)



ADM-FB8 Module
(8-Port GigE Hardware Accelerated)

Images not to scale

Key Problems

- Threats are continuously evolving
- Data centers require space saving, highly modular, and serviceable network security systems.
- 10-Gigabit Ethernet networks require high-performance security that does not introduce latency.
- Virtualized server farms need virtualized security solutions to reduce physical space, power, and cost.

Solutions

The FortiGate-5000 series provides complete threat protection, addressing multiple threats with a single solution.

FortiGate-5000 series are fully modular, chassis-and-blade based systems with high-availability, backplane fabric interconnects, and hot-swappable components.

The FortiGate-5000 series provides a scalable platform that is 10-Gigabit Ethernet ready—delivering multi-gigabit security while maintaining ultra-low latency for time-sensitive applications.

FortiGate-5000 series include support for high-density virtual domains (VDOMs)—allowing the administrator to segment network security domains by customer, business unit, or nearly any type of environment.

FortiGate Multi-Threat Security Solutions

FortiGate multi-threat security solutions provide an integrated set of security services in a single, easy-to-manage platform that is capable of supporting a wide range of deployment scenarios. FortiGate systems provide essential security services, with fully integrated firewall, Virtual Private Network (VPN), intrusion prevention, antivirus/antispam, Web filtering, antispam, and application control. To ensure that the security effectiveness of the FortiGate solutions remains at the highest levels possible, Fortinet offers FortiGuard® subscription services that include antivirus updates, intrusion prevention updates, an antispam rating service, and a Web filtering rating service. A wide range of hardware models is available to accommodate any network size—from the remote office or branch office to the high-speed core or data center.



TECHNICAL SPECIFICATIONS



HARDWARE SPECIFICATIONS

FortiGate-5001A (FG-5001A-DW / FG-5001A-SW)

Total 10/100/1000 Interfaces (Copper)	2
Maximum Network Interfaces (With AMC Module)	10
AMC Expansion Slot	1 Dual Width (FG-5001A-DW) 1 Single Width (FG-5001A-SW)
NEBS-Compliant Configuration Available	Yes

SYSTEM PERFORMANCE

Firewall Throughput (Base Unit + AMC Module)	13 Gbps
Firewall Throughput (Base Unit)	2 Gbps
VPN (IPSec) Throughput (Base Unit + AMC Module)	7 Gbps
VPN (IPSec) Throughput (Base Unit)	800 Mbps
IPS Throughput (Base Unit + AMC Module)	4 Gbps
IPS Throughput (Base Unit)	2 Gbps
Antivirus Throughput	500 Mbps
Dedicated IPSec VPN Tunnels	64,000
Concurrent Sessions	2,000,000
New Sessions/Sec	50,000
Policies	100,000
Unlimited User Licenses	Yes
Virtual Domains (VDOMs)	10 (up to 500 Optional)
High Availability Configurations	Active/Active, Active/Passive, Clustering

DIMENSIONS

Height	1.18 in (30 mm)
Width	13.98 in (355 mm)
Length	12.20 in (310 mm)
Weight	7.8 lb (3.54 kg)
Power Required	-40.5 V (DC) to -57 V (DC)
Power Consumption (AVG)	148 W

ENVIRONMENT

Operating temperature	32 to 104 deg F (0 - 40 deg C)
Storage temperature	-31 to 158 deg F (-35 to 70 deg C)
Humidity	20 to 90% non-condensing
Compliance	FCC Class A Part 15, UL/CB/CUL, C Tick, CE, VCCI
Certifications	ICSA Labs: Firewall, IPSec, SSL-TLS, IPS, Antivirus

Antivirus performance is benchmarked using HTTP traffic (32 Kbyte Objects)



NEBS-Compliant Configuration Available

FortiGate-5000 Series Chassis



FortiGate-5140

FortiGate-5140 Chassis

(As Configured with FortiGate-5001A Blades)

- 14 Available Front-Side Slots
- High-Availability Backplane
- Dual-Switch Blade Support
- Max Firewall Throughput - 182 Gbps
- VPN Throughput - 98 Gbps
- Concurrent Sessions - 28 Million
- NEBS-Compliant Configuration Available



FortiGate-5050

FortiGate-5050 Chassis

(As Configured with FortiGate-5001A Blades)

- 5 Available Front-Side Slots
- High-Availability Backplane
- Dual-Switch Blade Support
- Max Firewall Throughput - 65 Gbps
- VPN Throughput - 35 Gbps
- Concurrent Sessions - 10 Million



FortiGate-5020

FortiGate-5020 Chassis

(As Configured with FortiGate-5001A Blades)

- 2 Available Slots
- High-Availability Backplane
- Max Firewall Throughput - 26 Gbps
- VPN Throughput - 14 Gbps
- Concurrent Sessions - 4 Million

FortiGate-5000 Series Rear Transition Module XB2 (RTM-XB2)



RTM-XB2 Fabric Module

- Provides 10-Gigabit Ethernet backplane fabric connectivity to a FortiGate-5001A and FortiSwitch-5003A equipped system
- Includes FortiASIC™ Network Processor acceleration
- One required per FortiGate-5001A security blade in a FortiGate/FortiSwitch solution

FortiGuard Security Subscription Services

- Antivirus
- Intrusion Prevention
- Web Filtering
- Antispam
- Premier Signature Service
Includes Antivirus and Intrusion Prevention Updates with additional service level agreements

FortiCare™ Support Services

- 24/7/365 Web-Based Technical Support
- Technical Account Management Service (Optional)
- 24-Hour Phone-Based Support (Optional)
- Professional Services (Optional)
- 1-Year Limited Hardware Warranty
- 90-Day Limited Software Warranty



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