

FortiGate®-300 Series

Small-to-Medium
Enterprise

Datasheet

ASIC-Powered Security at Switching Speeds

The evolution of network security threats has driven the expansion of security products to include multiple threat recognition systems within a single appliance. Unified Threat Management systems from Fortinet include firewall, VPN, intrusion prevention, antivirus, antimalware, antispam and web content filtering to identify numerous types of threats from a single device. While the ease of use of UTM products has created a prolific adoption trend, administrators still struggle with limited physical deployment options due to the available throughput and port density of mid-range devices.

The FortiGate-300 series appliances answer the call of growing enterprise networks by integrating a purpose-built security processing ASIC, known as the FortiASIC Network Processor, into the FortiGate system to deliver security throughput at switching speeds. Eight hardware accelerated interfaces (expandable to 12) allow networks to enforce firewall policy between network segmentation points for layered security with switch-like performance. An additional purpose-built ASIC, known as the FortiASIC Content Processor, provides additional acceleration for content intensive security technologies such as intrusion prevention and antivirus scanning. The inclusion of modular expansion slots allow for even more flexibility, offering additional ASIC-accelerated ports for additional throughput or disk-based storage for local logging and content archiving. With numerous accelerated multi-threat security interfaces, organizations can create multiple security zones for various departments, users, access methods, and even devices to enforce network security at accelerated speeds.



FortiGate-310B (FG-310B)



FortiGate-311B (FG-311B)

Key Problems

- Voice, video, and other time-sensitive applications require extremely low-latency during transit.
- Many security devices have a limited number of ports, preventing desired internal network segmentation.
- Most security devices have limited expansion capabilities.
- To obtain effective protection from threats, it's necessary to cobble multiple products together to form a solution.

Solutions

FortiGate-300 series appliances ensure that security is never a bottleneck, thanks to the FortiASIC network processor which provides microsecond latency, up to 12 Gbps firewall performance, and up to 9 Gbps IPSec VPN performance.

The FortiGate-300 series appliances come standard with ten (10) 10/100/1000 interfaces (expandable to 14 interfaces), to permit a wide-array of deployments.

The FortiGate-300 series feature modular expansion bays extend the base system with additional security processing, accelerated interface, bypass, or wide area network modules.

Fortinet combines firewall, VPN, intrusion prevention, antivirus, antispam, web filtering, data leakage prevention, application control, and more into a single platform, providing an effective all-in-one solution.

FortiGate Multi-Threat Security Solutions

Fortinet's multi-layered security solutions efficiently and economically provide an integrated set of security services in a single, easy-to-manage high-performance appliance that is capable of supporting a wide range of deployment scenarios. In addition, FortiGuard Subscription Services include everything from technical support, antivirus updates, antispam, and Web content filtering to ensure that your security environment remains current and your corporate resources are protected against the latest blended threats. Finally, FortiGate systems come with a one-year limited hardware warranty and 90-day limited software warranty.



TECHNICAL SPECIFICATIONS

HARDWARE SPECIFICATIONS

	FG-310B / FG-311B
Total 10/100/1000 Interfaces (RJ-45)	10
Maximum Network Interfaces (With Optional Module)	14
AMC Expansion Slot	1 Single Width
Fortinet Storage Module (FSM) Slots	2 (FG-311B Only)
Local Storage Included	64 GB SSD (Via Module FS2-064, Included with FG-311B Only)

SYSTEM PERFORMANCE

Firewall Throughput (1518 byte UDP packets)	8 Gbps
Firewall Throughput (64 byte UDP packets)	8 Gbps
IPSec VPN Throughput	6 Gbps
IPS Throughput	800 Mbps
Antivirus Throughput	160 Mbps
Static IPSec VPN Tunnels	3,000
SSL-VPN Users (Recommended Max)	300
Concurrent Sessions (TCP)	600,000
New Sessions/Sec (TCP)	20,000
Policies (Max)	8,000
Unlimited User Licenses	Yes
Virtual Domains (VDOMs)	10
High Availability Configurations	Active/Active, Active/Passive, Clustering

DIMENSIONS

Height	1.75 in (4.55 cm)
Width	17 in (43.18 cm)
Length (FG-310B / FG-311B)	12.6 in (32 cm) / 16 in (40.65 cm)
Weight (FG-310B / FG-311B)	14 lb (6.35 kg) / 14.5 lb (6.58 kg)
Rack Mountable	Yes
AC Power (FG-310B / FG-311B)	100 - 240 VAC, 60 - 50 Hz, 5 - 3 Amp (Max)
DC Power (FG-310B-DC Only)	-48V DC (Normal)
Power Consumption (AVG)	120 W
Redundant Power Supplies	Requires External Option (FG-310B) / Included (FG-311B)

ENVIRONMENT

Operating temperature	32 to 104 deg F (0 - 40 deg C)
Storage temperature	-13 to 158 deg F (-25 to 70 deg C)
Humidity	5 to 90% non-condensing
Compliance	FCC Class A Part 15, UL/CUL, CE, C Tick, VCCI
Certifications	ICSA Labs: Firewall, IPSec VPN, IPS, Antivirus

All performance values are "up to" and vary depending on system configuration
 Antivirus performance is benchmarked using HTTP traffic (32 Kbyte Objects)
 IPS performance is benchmarked using UDP traffic (512 byte packet size)

Fortinet AMC Expansion Modules

Security Processing Modules

The ASM-XE2 and ASM-CE4 security processing modules for FortiGate platforms provide multi-gigabit throughput increases for intrusion prevention, firewall, and IP multicast applications.

Accelerated Interface Modules

The Fortinet ASM-FB4 accelerated interface module adds incremental hardware accelerated network interfaces to FortiGate platforms for wire-speed firewall performance and near wire-speed IPSec VPN performance. Up to 12 Gbps aggregate firewall throughput and up to 9 Gbps aggregate VPN throughput is possible with the FG-300 series when using the optional ASM-FB4 Fortinet Accelerated Interface Module.

Bypass Modules

Fortinet ASM-CX4 and ASM-FX2 modules provide bypass functionality to FortiGate platforms, automatically bridging network traffic in the event of a system or power failure.

T1/E1 WAN Module

The Fortinet ASM-ET4 module provides Wide Area Network (WAN) connectivity to FortiGate platforms, with support for T1 and E1 network circuits.

Storage Modules

Fortinet storage modules provide localized storage facilities to FortiGate platforms, with support for builtin and external storage systems.

See the applicable AMC Expansion Module datasheet for more information about Fortinet AMC Expansion Options.

FortiGate-310B External Redundant Power Supply Option

Part Number	FG-310B-RPS
Number of FG-310B Devices Supported	1

DIMENSIONS

Height	1.74 in (44.1 mm)
Width	17.4 in (442 mm)
Length	11.85 in (301 mm)
Rack Mountable	No
Power Required	100 - 240 VAC, 60 - 50 Hz, 8 - 5 Amp (Max)

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/CUL, CE, C Tick, VCCI

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



GLOBAL HEADQUARTERS
 Fortinet Incorporated
 1090 Kifer Road, Sunnyvale, CA 94086 USA
 Tel +1-408-235-7700
 Fax +1-408-235-7737
www.fortinet.com/sales

EMEA SALES OFFICE-FRANCE
 Fortinet Incorporated
 120 rue Albert Caquot
 06560, Sophia Antipolis, France
 Tel +33-4-8987-0510
 Fax +33-4-8987-0501

APAC SALES OFFICE-SINGAPORE
 Fortinet Incorporated
 61 Robinson Road
 #09-04 Robinson Centre
 Singapore 068893
 Tel: +65-6513-3730
 Fax: +65-6223-6784

