

FortiGate® -310B

ASIC-Powered Security
at Switching Speeds

Datasheet

Distributed Perimeters Require Security at Switching Speeds

Traditional perimeter security technologies have become obsolete in defending against today's blended security threats. Using multiple attack vectors, these threats are increasing in volume and sophistication, leveraging every available network connection point to proliferate. Organizations with mobile or remote users are causing centralized security perimeters to transform into a "distributed perimeter," enabling new entry points for security threats. With so many network access points, it has become impossible to deploy a single point of network protection within an enterprise infrastructure.

Internal Segmentation Restraints

As networks grow, administrators aspire to segregate user-groups and applications such as VoIP into smaller security zones for improved security. Dividing the network with security segmentation points isolates security events, increases policy granularity, and protects sensitive information. Unfortunately most mid-range security devices lack the interface count or the raw throughput to facilitate extensive internal network security segmentation.

ASIC-Accelerated Multi-Threat Security Solution

The FortiGate-310B answers the call of growing mid-sized networks by integrating a purpose-built security processing ASIC, known as the FortiASIC Network Processor, designed 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 for dangerous traffic streams. The inclusion of an Advanced Mezzanine Card (AMC) expansion slot allows 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
Base Unit

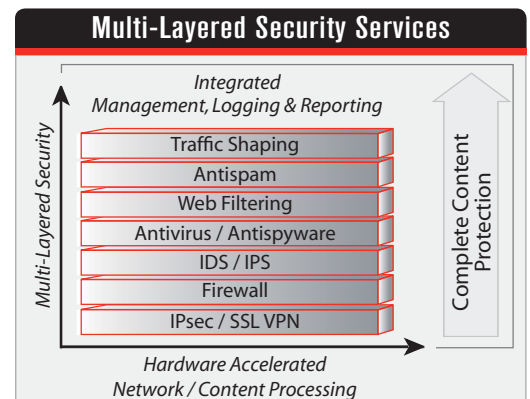


Fortigate-310B
with Optional 4-Port AMC Module (ASM-FB4)

Feature	Benefit
Hardware Acceleration	Up to 12Gbps FW & 9Gbps VPN combined with 800Mbps IPS and AV acceleration ensures security is never a bottleneck
Ten 10/100/1000 interfaces (expandable to 14)	Facilitates numerous internal segmentation points throughout the network
Modular Expansion	Flexible expansion options for four additional NP-accelerated ports or HDD for local logging and archiving
Unified Security Architecture	Multi-threat protection from a single device increases security and lowers costs

Fortinet's Multi-Layered Security Solution

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, antispymware, antispam, and Web content filtering to ensure that your security environment remains current and your corporate resources are protected against the latest blended threats. FortiGate systems come with a one-year limited hardware warranty and 90-day limited software warranty.



FortiGate	310B Base Unit	310B with Optional ASM-FB4
Hardware Specifications		
Total 10/100/1000 Interfaces	10	14
Configurable Ports	10	14
AMC Expansion Slot	1 Single Width	N/A
System Performance		
Firewall Throughput – Avg Size Packets (512 byte)	8 Gbps	12 Gbps
Firewall Throughput – Small Size Packets (64 byte)	8 Gbps	12 Gbps
IPSec VPN Throughput	6 Gbps	9 Gbps
Antivirus Throughput*	160 Mbps	
IPS Throughput*	800 Mbps	
Dedicated IPSec VPN Tunnels	3,000	
Concurrent Sessions	500,000	
New Sessions/Sec	20,000	
Policies	8,000	
Unlimited User Licenses	Yes	
Dimensions		
Height	1.75 inches (4.45 cm)	
Width	17 inches (43.18 cm)	
Length	12.6 inches (32 cm)	
Weight	14 lbs (6.35 kg)	
Rack Mountable	Yes	
AC Power Required	100 - 240 VAC, 60 - 50 Hz, 5 - 3 Amp (Max)	
Power Consumption (AVG)	120W	
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 95% non-condensing	
Compliance	FCC Class A Part 15, UL/CUL, C Tick, VCCI	
Certifications	ICSA Labs: Firewall, IPSec, Antivirus, IPS, Antispyware	
* Antivirus performance is measured based on HTTP traffic with 32Kbyte file attachments and IPS performance is measured based on UDP traffic with 512byte packet size. Actual performance may vary depending on the network traffic and environment.		

The FortiGate-310B Offers:

- ASIC-Powered firewall security at switching speeds
- Leading price/performance ratio
- Customizable expansion options
- Highest port density of any product in its class
- Multi-threat security from a single device

Fortinet Advanced Mezzanine Card (AMC) Expansion Modules

The AMC standard, also known as AdvancedMC™, was developed by the PCI Industrial Computers Manufacturers Group (PICMG), which has over 100 companies building to the specification. AdvancedMC has been developed to meet the requirements for the next generation of carrier grade communications equipment.

4-Port Gigabit Ethernet Module



ASM-FB4

- 4-Port FortiASIC hardware accelerated Gigabit SFP module
- (Includes 4x SX SFP transceivers)
- 4 Gbps Firewall performance
- 3 Gbps IPsec (3DES) VPN performance

80 GB AMC Storage Module



ASM-S08

- 80 Gigabyte hard disk drive storage module
- High duty cycle hard drive design

FortiGuard Security Subscription Services

With FortiGuard® Security Subscription services enabled, customers can rest assured that their Fortinet security platforms are performing optimally and protecting their corporate assets with the latest security intelligence. FortiGuard services deliver the latest security content directly to Fortinet products. Fortinet offers four standard subscription services: Antivirus, Intrusion Prevention, Web Filtering and Antispam services to protect against multiple types of new and emerging threats. FortiGuard services are updated by the Fortinet Global Threat Research Team, a team of experts working around the clock and around the world to keep Fortinet customers secure. The Fortinet Global Threat Research Team enables Fortinet to deliver comprehensive multi-threat protection, including zero-day protection from new and emerging threats. The FortiGuard Network is a network of global data centers that automatically deliver updates quickly and reliably to Fortinet products.

For customers requiring guaranteed response time to suspicious malware threats, Fortinet offers a premier version of the FortiGuard Antivirus Security Subscription service. Along with Service Level Agreements (SLAs), the premier service provides the customer with a direct conduit to the Fortinet Global Threat Research Team.

Fortinet also offers a premier version of the FortiGuard Web Filtering Security Subscription service. This higher-tier service offering includes guaranteed SLAs and a larger quota for rating URLs submitted to the Fortinet Global Threat Research Team.

FortiCare Support Services

Includes:

- 24/7/365 FortiCare Web-based support
- 8x5 telephone-based technical support (24x7 - optional)
- 1-Year limited hardware warranty
- Technical account management service available
- Professional services available



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

3 Temasek Avenue
Level 21 Centennial Tower
Singapore 039190
Tel: +65-6549-7050
Fax: +65-6549-7259