

FortiGate[®]-620B/-621B

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-620B and FortiGate-621B 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. Sixteen hardware accelerated interfaces (expandable to 20 on FortiGate-620B) 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 addition of an Advanced Mezzanine Card (AMC) expansion slot on the FortiGate-620B allows for even more flexibility, offering additional ASIC-accelerated ports for additional throughput or hard disk-based storage for local logging and content archiving. The FortiGate-621B includes 64 GB of local solid state storage. 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 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.



FortiOS 4.0 Software Redefines Networks Security

FortiOS 4.0 is a purpose-built operating system that leverages the power of specialized FortiASIC hardware to offer increased levels of security and performance. Fortinet developed FortiOS 4.0 software solely for the FortiGate multi-threat security platform. FortiOS software enables a comprehensive suite of security services – firewall, VPN, intrusion prevention, antimalware, antispam, web filtering, application control, data loss prevention, vulnerability management, and end point network access control.

The FortiASIC Advantage

FortiASIC processors power FortiGate platforms. With exclusive hardware, the purpose built, high-performance network, security, and content processors use intelligent and proprietary digital engines to accelerate resource-intensive security services.

Challenge

Solution

Voice, video, and other time-sensitive applications require extremely low-latency during transit

FortiGate-600 series appliances ensure that security is never a bottleneck, thanks to the FortiASIC network processor which provides microsecond latency with up to 16 Gbps firewall performance, and up to 12 Gbps IPSec VPN performance (up to 20 Gbps firewall performance, and up to 15 Gbps IPSec VPN performance on FG-620B with ASM-FB4 module).

Many security devices have a limited number of ports, preventing desired internal network segmentation

FortiGate-600 series appliances come standard with twenty 10/100/1000 interfaces (expandable to twenty four interfaces on FG-620B), to permit a wide-array of deployments.

Most security devices have limited expansion capabilities

The FortiGate-620B features an AMC expansion bay to expand the base system with additional security processing, accelerated interface, bypass, or wide area network modules.

To obtain effective protection from threats, it's necessary to cobble multiple products together to form a solution

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.

Technical Specifications	FG-620B	FG-621B
HARDWARE SPECIFICATIONS		
Standard 10/100/1000 Interfaces (RJ-45)	20	
Network Interfaces with Optional Module	24	N/A
AMC Expansion Slot	1 Single Width	N/A
Local Storage Included	N/A	64 GB SSD
SYSTEM PERFORMANCE		
Firewall Throughput (1518 byte UDP)	16 Gbps (20 Gbps with ASM-FB4)	16 Gbps
Firewall Throughput (64 byte UDP)	16 Gbps (20 Gbps with ASM-FB4)	16 Gbps
IPSec VPN Throughput	12 Gbps (15 Gbps with ASM-FB4)	12 Gbps
IPS Throughput	1 Gbps	
Antivirus Throughput (Proxy-based)	350 Mbps	
Antivirus Throughput (Flow-based)	750 Mbps	
Gateway-to-Gateway IPSec VPN Tunnels (System / VDOM)	10,000 / 5,000	
Client-to-Gateway IPSec VPN Tunnels	20,000	
SSL-VPN Users (Recommended Max)	500	
SSL-VPN Throughput	300 Mbps	
Concurrent Sessions (TCP)	1,000,000	
New Sessions/Sec (TCP)	25,000	
Policies (Max)	100,000	
Unlimited User Licenses	Yes	
Virtual Domains (VDOMs)	10	
Mean Time Between Failures	More than 5 years	
High Availability Configurations	Active/Active, Active/Passive, Clustering	
DIMENSIONS		
Height	1.77 in (4.5 cm)	
Width	17 in (43.2 cm)	
Length	15.5 in (39.4 cm)	
Weight	20 lb (9.1 kg)	
Rack Mountable	Yes	
AC Power	100-240 VAC, 60-50 Hz, 5-3 Amp (Max)	
Heat Dissipation	604 BTU	
DC Power	-48V DC (Normal)	
Power Consumption (AVG)	225 W	
Redundant Power Supply	Requires External Option (FG-620B-RPS)	
ENVIRONMENT		
Operating temperature	32 - 104 °F (0 - 40 °C)	
Storage temperature	-13 - 158 °F (-25 - 70 °C)	
Humidity	20 to 90% non-condensing	
Compliance	FCC Class A Part 15, UL/CUL, CE, C Tick, VCCI	
Certifications	ICSA Labs: Firewall, IPSec VPN, SSL VPN, IPS, Antivirus	

Fortinet AMC Expansion Modules

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 20 Gbps aggregate firewall throughput and up to 15 Gbps aggregate VPN throughput is possible with the FG-620B when using optional Fortinet Accelerated Interface Modules.

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.

Storage Modules

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

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

FortiGate-620B/-621B External Redundant Power Supply Option

Number of FG-620B or FG-621B Devices Supported	2 (via dual AC power input channels)
SKU Number	FG-620B-RPS
DIMENSIONS	
Height	1.74 in (4.41 cm)
Width	17.4 in (44.2 cm)
Length	11.85 in (30.1 cm)
Rack Mountable	Yes
Power Required	Up to 2 circuits, 100-240 VAC, 60-50 Hz, 8-5 Amp (Max)
Heat Dissipation	522 BTU
ENVIRONMENT	
Operating temperature	32 - 104 °F (0 - 40 °C)
Storage temperature	-31 - 158 °F (-35 - 70 °C)
Humidity	20 - 90% non-condensing
Compliance	FCC Class A Part 15, UL/CUL, CE, C Tick, VCCI

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)

FortiGuard® Security Subscription Services deliver dynamic, automated updates for Fortinet products. The Fortinet Global Security Research Team creates these updates to ensure up-to-date protection against sophisticated threats. Subscriptions include antivirus, intrusion prevention, web filtering, antispam, vulnerability and compliance management, application control, and database security services.

FortiCare™ Support Services provide global support for all Fortinet products and services. FortiCare support enables your Fortinet products to perform optimally. Support plans start with 8x5 Enhanced Support with "return and replace" hardware replacement or 24x7 Comprehensive Support with advanced replacement. Options include Premium Support, Premium RMA, and Professional Services. All hardware products include a 1-year limited hardware warranty and 90-day limited software warranty.



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