FORTINET

FortiGate®-620B

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 appliance answers 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) 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 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-620B (FG-620B)

Key Problems	Solutions
Voice, video, and other time-sensitive applications require extremely low-latency during transit.	FortiGate-620B appliances ensure that security is never a bottleneck, thanks to the FortiASIC network processor which provides microsecond latency, up to 20 Gbps firewall performance, and up to 15 Gbps IPSec VPN performance.
Many security devices have a limited number of ports, preventing desired internal network segmentation.	The FortiGate-620B comes standard twenty (20) 10/100/1000 interfaces (expandable to 24 interfaces), 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.

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, antispyware, 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	FortiGate-620B

Total 10/100/1000 Interfaces (RJ-45).. 20
Maximum Network Interfaces (With Optional Module)....................................... 24
AMC Expansion Slot .... 1 Single Width

SYSTEM PERFORMANCE

Firewall Throughput (1518 byte UDP packets) .... 16 Gbps
Firewall Throughput (64 byte UDP packets) .... 16 Gbps
IPSec VPN Throughput.. 12 Gbps
IPS Throughput .... 1 Gbps
Antivirus Throughput..250 Mbps
Concurrent IPSec VPN Tunnels.. 20,000
Concurrent SSL-VPN Users 500
Concurrent Sessions (TCP) 1,000,000
New Sessions/Sec (TCP) 25,000
Policies (Max).. 100,000
Unlimited User Licenses .... Yes
Virtual Domains (VDOMs) 10
High Availability Configurations ....Active/Active, Active/Passive, Clustering

DIMENSIONS

Height... 1.77 in (45 mm)
Width.. 17 in (432 mm)
Length .... 15.5 in (394 mm)
Weight ....20 lb (9.1 kg)
Rack Mountable .... Yes
AC Power (FG-620B) .... 100 - 240 VAC, 60 - 50 Hz, 6 - 3 Amp (Max)
DC Power (FG-620B-DC) .... -48V DC (Normal)
Power Consumption (AVG)... 225 W
Redundant Power Supplies.................... Requires External Option (FG-620B-RPS)

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
Certifications ....ICSA Labs: Firewall, IPSec, SSL-TLS, 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

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 20Gbps 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 builtin and external storage systems.

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

FortiGate-620B External Redundant Power Supply Option

Number of FG-620B Devices Supported .... 2 (via dual AC power input channels)

DIMENSIONS

Height... 1.74 in (44.1 mm)
Width.. 17.4 in (442 mm)
Length .... 11.85 in (301 mm)
Rack Mountable .... Yes
Power Required .... Up to 2 circuits, 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

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