

FORTIGATE™ 4000

Antivirus Firewall

4000

FortiGate-4000 Antivirus Firewall

A Scalable Solution for High Performance Content Security

Network bandwidths are getting higher. Applications are becoming more real-time. And the number and severity of content-based threats is increasing. As a result, organizations of all types require high-performance content security that can stop viruses, worms, Trojans, inappropriate Web content, and email spam in the network without degrading the performance of network applications. Software-based solutions based on standard computing and networking platforms can't keep up. That's why Fortinet developed the award-winning FortiGate™ family of ASIC-accelerated Antivirus Firewalls. Now, with the FortiGate-4000 system, large enterprises and service providers for the first time can implement scalable, comprehensive, cost-effective and reliable content security at gigabit data rates and beyond.

Flexible System Components Serve Multiple Applications

All FortiGate-4000 systems are configured using a FortiGate-4000 Chassis outfitted with a combination of modules to serve varying throughput, redundancy, and interface requirements. The FortiGate-4000 Chassis accommodates hot-swappable power and fan modules

to ensure high-availability power and cooling, and also supports

Management Modules for in-band and out-of-band management. For

scalable throughput, the FortiGate-4000 Chassis has 10 slots to accommodate FortiBlade-4010 Modules, each of which is equipped with the FortiASIC™ Content Processor chip and provides high-performance firewall, VPN, antivirus, intrusion detection and prevention, Web and email content filtering and traffic shaping services.



A variety of external interface and clustering options for FortiGate systems supports a range of applications:

- > Hosted data centers, in which each FortiBlade-4010 Module is dedicated to a particular server farm or customer;
- > “In the cloud” antivirus screening for broadband access services;
- > Content screening at service provider peering points;
- > Content security at enterprise headquarter and data center locations.

The FortiGate-4000 system ushers in a new era of high speed security with unparalleled price/performance.

- > Scalable architecture supports optimal content security solution for Large Enterprise and Managed Security Service Providers (MSSPs)
- > Eliminates viruses, worms, Trojans and malicious content from email, file transfer, and real-time (Web) traffic without degrading network performance
- > Comprehensive network protection services include firewall, VPN, network-based intrusion detection and prevention, and traffic shaping
- > FortiBlade Modules can be clustered using active-active and active-passive configurations to support high-availability operation for mission-critical applications

Scalability Made Simple

FortiGate-4000 Systems are configured by starting with one of the two FortiBlade-4010 Base Systems:

The FortiGate-4000S Base System is used for applications that use the Fortinet Clustering Protocol to scale system throughput as FortiBlade Modules are added, and is composed of the following:

- > One FortiGate-4000 Chassis
- > Two 10x2 port gigabit Switch Interface Modules
- > Two FortiBlade-4010 Modules
- > Seven hot-swappable Power Modules
- > Four hot-swappable Fan Modules
- > One 10/100 Ethernet module (for out-of-band management)
- > One Auxiliary Management Module (for access to the FortiBlade-4010 console ports)

FortiGate-4000S Base Systems



Up to eight additional FortiBlade-4010 Modules can be added to each FortiGate-4000S Base System, for a total of 10 FortiBlade Modules. Multiple FortiBlade Modules can be clustered together to deliver multi-gigabit Antivirus performance.

The FortiGate-4000P Base System is used for applications that require direct connectivity to individual FortiBlade-4010 Modules, and is composed of the following:

- > One FortiGate-4000 Chassis
- > Two 10 port gigabit Pass-Through Interface Modules
- > Two FortiBlade-4010 Modules
- > Seven hot-swappable Power Modules
- > Four hot-swappable Fan Modules
- > One 10/100 Ethernet module (for out-of-band management)
- > One Auxiliary Management Module (for access to the FortiBlade-4010 console ports)

FortiGate-4000P Base Systems

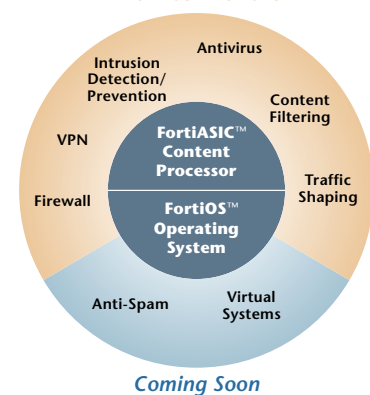


As with the FortiGate-4000S Base System, up to eight additional FortiBlade-4010 Modules can be added for a total of 10 FortiBlade Modules. FortiBlade Modules can be dedicated to specific customers or applications; alternately overall system throughput can be scaled linearly using external load balancers.

Like all FortiGate Antivirus Firewalls, the FortiGate-4000 System is kept up to date automatically by Fortinet's FortiResponse Network, which provides continuous updates that ensure protection against the latest viruses, worms, Trojans, and other threats — around the clock, and around the world.

The FortiGate-4000 System is based on Fortinet's award winning technology, which uses the FortiASIC™ Content Processor chip and FortiOS™ operating system to deliver complete network protection service at unparalleled price/performance.

Capabilities Supported By All FortiGate Antivirus Firewalls



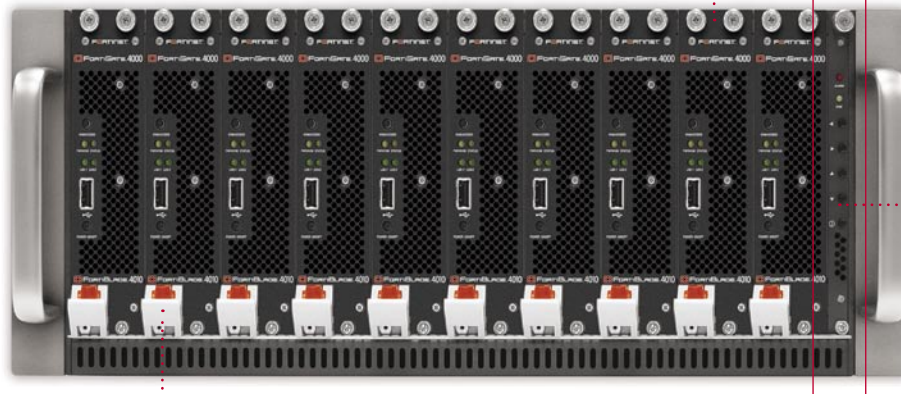
System Specifications

	FortiBlade-4010 Module	FortiGate-4000 System		FortiBlade-4010 Module	FortiGate-4000 System
Interfaces			High Availability (HA)		
FortiGate-4000P	-	Up to 20 1000Tx	Active-active/Clustering HA	•	•
FortiGate-4000S	-	4 10/100/1000 or SFP	Active-passive HA	•	•
Out-of-Band Management Ports	-	2	Stateful failover (FW and VPN)	•	•
System Performance			Device failure detection & notification	•	•
Concurrent sessions	1M	10M	Link status monitor	•	•
New sessions/second	20K	200K	Networking		
Firewall throughput (Gbps)	2Gbps	20Gbps*	Multiple WAN link support		•
168-bit Triple-DES throughput (Mbps)	600	6Gbps*	Multi-zone support	•	•
Unlimited concurrent users	•	•	Route between zones	•	•
Policies	50K	500K	Policy-based routing	•	•
Schedules	256	2560	System Management		
Antivirus, Worm Detection & Removal			Console interface (RS-232)	•	•
Automatic virus database update from FortiResponse Network	•	•	WebUI (HTTPS)	•	•
Scans HTTP, FTP, SMTP, POP3, IMAP, and encrypted VPN Tunnels	•	•	Multi-language support	•	•
Firewall Modes and Features			Command line interface	•	•
NAT, PAT, Transparent (bridge)	•	•	Secure Command Shell (SSH)	•	•
Routing mode (RIP v1, v2)	•	•	FortiManager System	•	•
VLAN tagging (802.1q)	•	•	KVM Switch		•
Access control list (Source IP, Destination IP, TCP port, and UDP port)	•	•	Administration		
User Group-based authentication	•	•	Multiple administrators and user levels	•	•
H.323 NAT Traversal	•	•	Upgrades & changes via TFTP & WebUI	•	•
WINS support	•	•	System software rollback	•	•
VPN			User Authentication		
PPTP, L2TP, and IPsec	•	•	Internal database	•	•
Dedicated tunnels	5K	50K	LDAP support	•	•
Encryption (DES, 3DES, AES)	•	•	RADIUS (external) database	•	•
SHA-1 / MD5 authentication	•	•	Xauth over RADIUS support for IPsec VPN	•	•
Supports Fortinet Remote VPN Client	•	•	IP/MAC address binding	•	•
PPTP, L2TP, VPN client pass through	•	•	Traffic Management		
Hub and Spoke VPN support	•	•	Policy-based traffic shaping	•	•
IKE certificate authentication (X.509)	•	•	Guaranteed bandwidth	•	•
IPsec NAT Traversal	•	•	Maximum bandwidth	•	•
Dead peer detection	•	•	Priority assignment	•	•
Interoperability with major VPN vendors	•	•	Dimensions		
Content Filtering			Height	6 inches	7 inches
URL block	•	•	Width	~1.5 inches	16.75 inches
Keyword/phrase block	•	•	Length	12 inches	26.4 inches
URL Exempt List	•	•	Weight	~1 lb (0.5 kg)	110 lb (50 kg)
Content profiles	32	320	Rack Mountable		•
Blocks Java Applet, Cookies, Active X	•	•	Power		
Email filtering (keyword, blacklist, exempt list)	•	•	AC input voltage		100 to 230VAC
Intrusion Detection			AC input current		15A
Detection for over 1300 attacks	•	•	Frequency		50 to 60Hz
Prevention for over 30 attacks	•	•	Power Dissipation		2100W max
Detection and prevention on multiple interfaces	•	•	Environmental		
Customizable detection signature list	•	•	Operating Temperature		32 to 95 °F (0 to 35 °C)
Logging/Monitoring			Storage Temperature		-13 to 158 °F (-25 to 70 °C)
Log to remote Syslog/WELF server	•	•	Humidity		10 to 90% non-condensing
Graphical real-time and historical monitoring	•	•	Regulatory		
SNMP	•	•	FCC Class A Part 15		•
Email notification of viruses and attacks	•	•	CSA/CUS		•
VPN tunnel monitor	•	•	CE		•
			ICSA Antivirus		•
			ICSA Firewall		•
			ICSA IPsec		•
			ICSA Intrusion Detection		•

*FortiGate-4000P

FortiGate-4000 System Components

FortiGate-4000 Chassis Front View
(Fully populated)



Scalable capacity
FortiGate-4000 chassis supports up to 10 FortiBlade modules

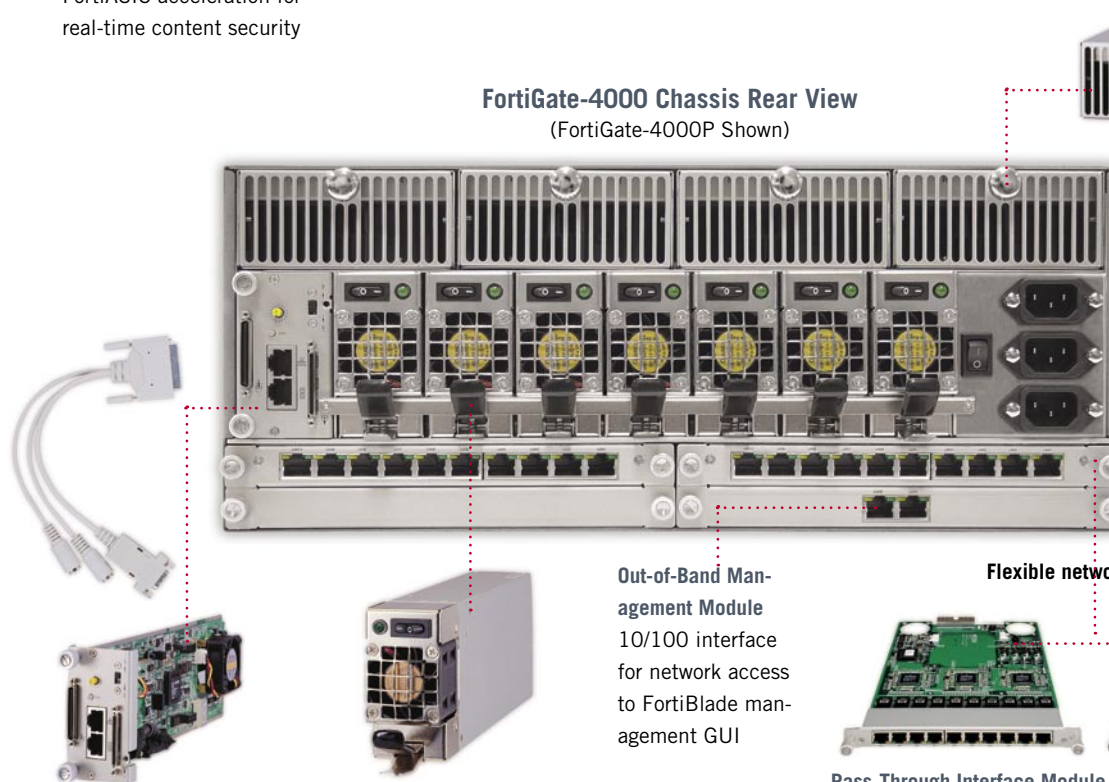
User-friendly controls
for KVM access



FortiBlade-4010 module
High capacity module with FortiASIC acceleration for real-time content security

High efficiency cooling system
supported by four redundant, hot-swappable cooling fans

FortiGate-4000 Chassis Rear View
(FortiGate-4000P Shown)



Out-of-Band Management Module
10/100 interface for network access to FortiBlade management GUI



Pass-Through Interface Module
10 Gigabit Ethernet feed-through ports



Fault tolerant power supply
supported by hot swappable 6+1 redundant modules



Switch Interface Module
2 Copper/2SFP Gigabit switch ports

Easy management
remote control and monitoring, and integrated smart KVM Switch



5 out of 5



9 out of 10



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