

FortiGate™ -1000-3800 Series

High Performance Security Systems for Enterprises

Datasheet

Multi-Gigabit Network Security Solutions

High Performance Enterprise Network Security

FortiGate enterprise security solutions deliver next-generation firewall technology and multi-threat protection integrated into cost-effective security platforms that effectively block blended network threats. Point-product security solutions do not provide protection against a new breed of blended threats that utilize a multitude of attack vectors. Furthermore, assembling an array of point products is costly and requires significant expertise to engineer, maintain and manage. FortiGate solutions cost-effectively deliver complete multi-threat protection against: unauthorized access, intrusion attempts, viruses, worms, trojans, spyware, phishing attempts, spam and other types of content-based and network-based threats.

Industry-Leading Unified Threat Management (UTM)

Fortinet incorporates ICSA Labs-certified UTM functions into a single ASIC-based appliance that is simple to install and manage. Stateful firewall, IPSec and SSL-VPN, intrusion prevention, antivirus, antispam, and Web filtering features combine to form a complete enterprise-focused network security platform that offers compelling total cost of ownership.

Key Solution Features and Benefits

- Award winning, multi-threat security architecture for enterprise networks
Delivers powerful, integrated application security ideal for protecting enterprises from complex threats
- Extremely high performance/price ratio with unlimited number of users
Lowers the total cost of ownership while offering unmatched levels of performance
- Flexible deployment options with minimal time required for deployment
The easy to deploy and manage solutions saves time and money during initial deployment and ongoing maintenance
- Extensible security architecture
Modular architecture enables new technologies, such as VoIP, Video, IM and P2P, to be controlled and secured without network downtime
- Modular expansion options
Easily add advanced network interfaces and storage options as needs grow without losing the original investment in the solution



FortiGate-1000A



FortiGate-1000AFA2



FortiGate-3016B



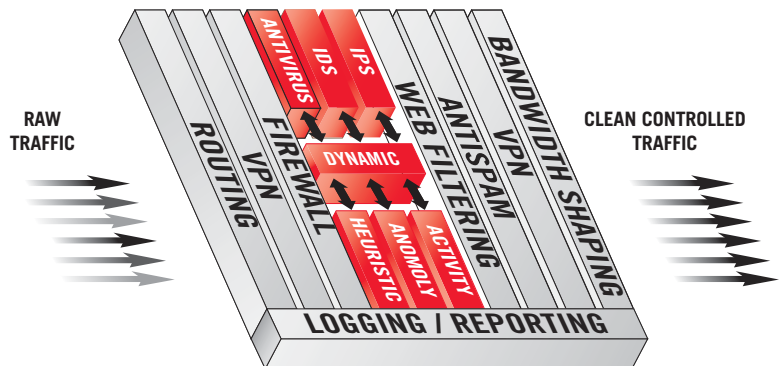
FortiGate-3600A



FortiGate-3810A

The FortiGate Multi-Threat Security Inspection Model

Fortinet's award-winning security inspection engines offer unparalleled levels of protection against blended threats. Fully integrated routing, firewall, encryption, intrusion prevention, antivirus, antispam, Web filtering and traffic shaping modules means that all traffic is inspected upon entry into and exit from your network to ensure that communication is clean and controlled.



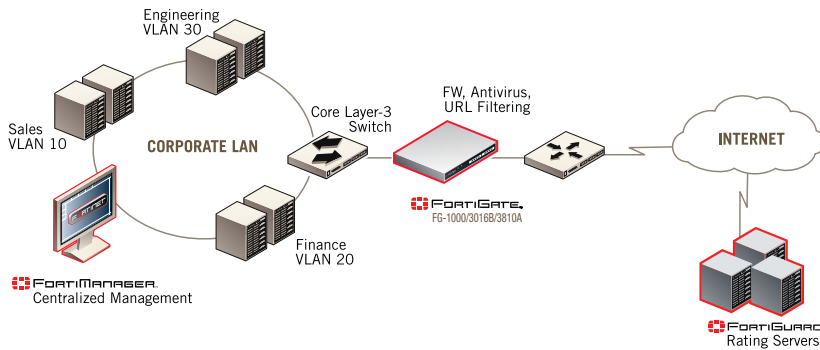
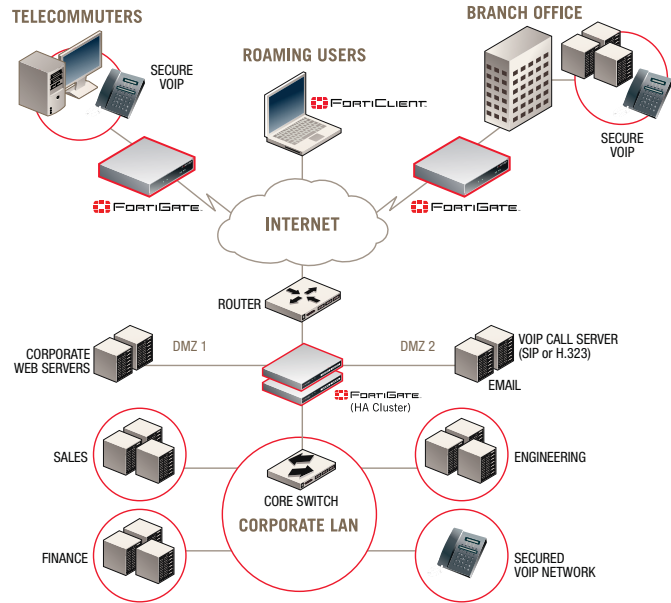
FortiGate Multi-Threat Security Illustrated

FortiGate multi-threat security solutions are designed for enterprise networks.

Secure Network Perimeters / Internal Segmentation

Firewall and VPN services are deployed at the perimeter of the internal network to securely connect remote offices and mobile users to an organization's private resources while at the same time preventing any other unauthorized access. Intrusion prevention, antivirus and Web filtering services ensure that network-based threats and content-based threats are stopped inbound as well as outbound.

Inside the network, segmentation can be achieved using firewall, intrusion prevention and antivirus technologies. Internal segmentation effectively isolates outbreaks before they are allowed to spread throughout an organization's network.



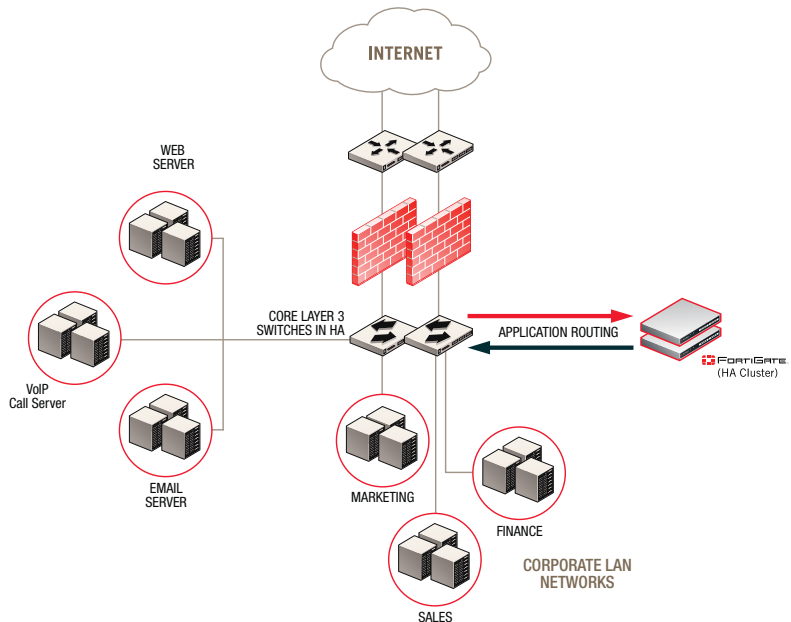
Virtual Security Domains / Distributed Enterprises

FortiGate platforms support multiple security zones and virtual security domains to customize a network's security policy anywhere requirements demand. Virtual Domains (VDMs) can also be used to provision services for external customers.

All FortiGate solutions start from the same flexible high performance architecture. Core networking features found in every model such as High Availability (HA) and support for dynamic routing protocols enable the FortiGate to be deployed into highly distributed and fully meshed network environments.

Datacenter and Critical Applications Security

Effectively protecting an organization's mission critical applications from a new generation of application-based threats that are now targeting Web 2.0, VoIP and even IPTV applications requires a comprehensive security strategy that contains multiple layers of network-based defenses. Unfortunately, many of these new applications are time-critical, forcing administrators to choose between performance and security. The FortiGate family of multi-gigabit performance solutions deliver real-time protection against multi-layered security threats which target application servers. In addition to protecting against these new threat types, advanced antispam filtering relieves the ever evolving problem of unsolicited bulk mail while also filtering mail for spyware and security policy violating content.



FortiGate-1000-3800 Series



Feature	FortiGate-1000A	FortiGate-1000AFA2	FortiGate-3016B	FortiGate-3600A	FortiGate-3810A
10/100/1000 Interfaces (Copper)	10	10	0	8	8
1Gb SFP Interfaces (Fiber) *	0	2	16	2	2
USB Ports	1	1	1	2	1
AMC Expansion Slots	0	0	1 single width	1 single width	2 single width 2 double width
Concurrent Sessions	600,000	600,000	2,500,000	1,000,000	2,000,000
New Sessions/Second	15,000	15,000	25,000	40,000	40,000
Firewall Throughput (Gbps) (standard / with optional module)	2 / NA	2 / NA	16 / 20	6 / 10	7 / 26
VPN 168-Bit Triple-DES Throughput (standard / with optional module)	400 Mbps / NA	400 Mbps / NA	12 / 15 Gbps	800 Mbps / 3.8 Gbps	1 / 13 Gbps
IPS Throughput	1 Gbps	1 Gbps	2 Gbps	3 Gbps	4 Gbps
Antivirus Throughput	200 Mbps	200 Mbps	300 Mbps	400 Mbps	500 Mbps
Unlimited Concurrent Users	Yes	Yes	Yes	Yes	Yes
Dedicated IPSec VPN Tunnels	10,000	10,000	10,000	10,000	10,000
Policies	100,000	100,000	100,000	100,000	100,000
Virtual Domains (VDOMS) (standard / with optional license)	10 / NA	10 / NA	10 / 250	10 / 250	10 / 250
DIMENSIONS (Height)	3.5 in (88.9 mm)	3.5 in (88.9 mm)	3.5 in (88.9 mm)	3.5 in (88.9 mm)	3.5 in (88.9 mm)
(Width)	16.75 in (425.5 mm)	16.75 in (425.5 mm)	16.9 in (429.3 mm)	16.9 in (429.3 mm)	16.9 in (429.3 mm)
(Length)	13.5 in (342.9 mm)	13.5 in (342.9 mm)	18.3 in (464.8 mm)	16.9 in (429.3 mm)	18.5 in (469.9 mm)
(Weight)	17.5 lbs (8 kg)	17.5 lbs (8 kg)	25.6 lbs (11.6 kg)	26 lbs (11.8 kg)	36 lbs (16.4 kg)
COMPLIANCE	FCC Class A, Part 15, UL/CUL, C Tick, CE, VCCI				
CERTIFICATIONS	ICSA Labs, NSS Labs, Common Criteria, FIPS 140-2 (Contact your Fortinet reseller for an up-to-date certification listing)				
ENVIRONMENTAL	Operating temperature: 32 to 104 deg F (0 to 40 deg C) Storage temperature: -13 to 158 deg F (-25 to 70 deg C) Humidity: 5 to 95% non-condensing				
AC Power Required	Dual 100-240 VAC, 50-60 Hz, 8 Amp max				

* SX transceivers (standard) - LX and TX transceivers (optional)

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.

10-Gigabit Ethernet AMC Module



ADM-XB2

- 2-Port FortiASIC hardware accelerated 10-Gigabit Ethernet module
- 5.5 Gbps Firewall performance
- 3 Gbps IPSec (3DES) VPN performance
- Requires double-width slot (FG-3810A)

4-Port Gigabit Ethernet Module



ASM-FB4

- 4-Port FortiASIC hardware accelerated Gigabit SFP module
- 4 Gbps Firewall performance
- 3 Gbps IPSec (3DES) VPN performance
- Requires single-width slot (FG-3016B/FG-3600A/FG-3810A)

80 GB AMC Storage Module



ASM-S08

- 80 Gigabyte hard disk drive storage module
- High duty cycle hard drive design
- Requires single-width slot (FG-3016B/FG-3600A/FG-3810A)

The Fortinet ASIC-based Advantage

The FortiASIC family of content processors (CP) and network processors (NP) form the foundation of Fortinet's unique technology.

FortiASIC-CP series use an intelligent, proprietary content scanning engine that accelerates the compute-intensive actions which generally perform slowly on general purpose processors. They also contain acceleration algorithms for encryption so that FortiGate can perform antivirus scanning on VPN tunnels ensuring clean and controlled communications.

FortiASIC-NP series use proprietary network processor acceleration, delivering extreme performance and security at a compelling total cost of ownership.

The Complete FortiGate Solution

Fortinet's multi-threat security solutions include an integrated, all-in-one security appliance and optional FortiCare™ Support and FortiGuard™ Security Subscription Services. These offerings include everything from technical support, security content updates, hardware warranty and hardware exchange service to ensure that your investment remains current and your corporate resources are protected against the latest blended threats.

FortiGate-1000-3800 Series



FortiGate-1000A

FortiGate-1000AFA2

FortiGate-3016B

FortiGate-3600A

FortiGate-3810A

All FortiGate solutions offer the following features:

FIREWALL

ICSA Labs Certified (Enterprise Firewall)
NAT, PAT, Transparent (Bridge)
Routing Mode (RIP v1 & v2, OSPF, BGP, & Multicast)
Policy-Based NAT
Virtual Domains (NAT/Transparent mode)
VLAN Tagging (802.1Q)
User Group-Based Authentication
SIP/H.323 NAT Traversal
WINS Support
Customized Protection Profiles

VIRTUAL PRIVATE NETWORK (VPN)

ICSA Labs Certified (IPSec & SSL)
PPTP, IPSec, and SSL
Dedicated Tunnels
DES, 3DES, and AES Encryption Support
SHA-1/MD5 Authentication
PPTP, L2TP, VPN Client Pass Through
Hub and Spoke VPN Support
IKE Certificate Authentication
IPSec NAT Traversal
Dead Peer Detection
RSA SecurID Support

INTRUSION PREVENTION SYSTEM (IPS)

ICSA Labs Certified (NIPS)
Protection From Over 3000 Threats
Protocol Anomaly Support
Custom Signature Support
Automatic Attack Database Update

ANTIVIRUS

ICSA Labs Certified (Gateway Antivirus)
Includes AntiSpyware and Worm Prevention
HTTP/SMTP/POP3/IMAP/FTP/IM and Encrypted VPN Tunnels
Automatic "Push" Virus Database Update
File Quarantine Support
Block by File Size or Type

WEB FILTERING

URL/Keyword/Phrase Block
URL Exempt List
Content Profiles
Blocks Java Applet, Cookies, Active X
FortiGuard Web Filtering Support

ANTISPAM

Real-Time Blacklist/Open Relay Database Server
MIME Header Check
Keyword/Phrase Filtering
IP Address Blacklist/Exempt List
Automatic Real-Time Updates From FortiGuard Network

TRAFFIC SHAPING

Policy-based Traffic Shaping
Differentiated Services (DiffServ) Support
Guarantee/Max/Priority Bandwidth

NETWORKING/ROUTING

Multiple WAN Link Support
PPPoE Support
DHCP Client/Server
Policy-Based Routing
Dynamic Routing (RIP v1 & v2, OSPF, BGP, & Multicast)
Multi-Zone Support
Route Between Zones
Route Between Virtual LANs (VDMs)
Multi-Link Aggregation (802.3ad)

MANAGEMENT/ADMINISTRATION OPTIONS

Console Interface (RS-232)
WebUI (HTTP/HTTPS)
Telnet / Secure Command Shell (SSH)
Command Line Interface
Role-Based Administration
Multi-language Support
Multiple Administrators and User Levels
Upgrades and Changes Via TFTP and WebUI
System Software Rollback
Central Management via FortiManager (optional)

LOGGING/MONITORING

Internal Logging
Log to Remote Syslog/WELF server
Graphical Real-Time and Historical Monitoring
SNMP
Email Notification of Viruses And Attacks
VPN Tunnel Monitor
Optional FortiAnalyzer Logging

USER AUTHENTICATION OPTIONS

Local Database
Windows Active Directory (AD) Integration
External RADIUS/LDAP Integration
IP/MAC Address Binding
Auth over RADIUS for IPSEC VPN
RSA SecurID Support

VIRTUAL DOMAINS (VDMs)

Separate Firewall/Routing domains
Separate Administrative domains
Separate VLAN interfaces
10 VDMs (standard)
Up to 250 VDMs (optional license - models 3000 and higher)

HIGH AVAILABILITY (HA)

Active-Active, Active-Passive
Stateful Failover (FW and VPN)
Device Failure Detection and Notification
Link Status Monitor
Link failover

INSTANT MESSENGER /

PEER-TO-PEER ACCESS CONTROL

AOL-IM	Yahoo	MSN
ICQ	Gnutella	BitTorrent
WinNY	Skype	eDonkey
KaZaa		

FortiGuard Security Subscription Services

Includes:

- Automatic push updates from the FortiGuard Network for antivirus and intrusion prevention security content.
- Complete Wildlist virus protection from over 4,500 active malware threats from FortiGuard's database of over 60,000 malware threats.
- 76 rated Web categories for greater control and accuracy.
- Web filtering for more than 29 million rated domains and 2 billion rated Web pages.
- Real time spam queries to ensure accurate filtering of unsolicited bulk mail.

FortiCare Support Services

Includes:

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



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