

# FortiGate®-5000 Series

## 10-Gigabit Ready FortiGate Consolidated Security Systems



### Unmatched Performance, Scalability, and Security

FortiGate-5000 series chassis-based security systems offer unmatched performance, reliability, and scalability for your high-speed service provider, large enterprise or telecommunications carrier network. Native 10-GbE support and a highly-flexible AdvancedTCA™ (ATCA)-compliant architecture enable the FortiGate-5000 series to protect complex, multi-tenant cloud-based security-as-a-service and infrastructure-as-a-service environments. Purpose-built by Fortinet, the FortiGate-5000 series integrates modular carrier-class hardware components with advanced FortiASIC™ acceleration and consolidated security from the FortiOS™ operating system.

### Carrier-Class High-Performance Hardware

By adding modular blades, a FortiGate-5000 series system can scale to deliver up to 480 Gbps of firewall throughput, the fastest throughput available, and up to 132 million concurrent sessions. Advanced networking blades such as the FortiSwitch-5003B and FortiSwitch-5203B distribute traffic to multiple FortiGate security blades, enabling wire-speed firewall performance at 10-Gigabit Ethernet (10-GbE), GbE, and 10/100 link speeds.

### Modular Scalability

Since the FortiGate-5000 series hardware is composed of multiple security and networking blades, scalability for future growth comes standard. In addition, select FortiGate security blades feature Advanced Mezzanine Card (AMC) expansion bays for additional hardware-accelerated network interfaces, local disk-based storage, and security processing offloading to specialized hardware. With four chassis models and an array of network and security options to choose from, FortiGate-5000 series systems scale easily with your business plans and security requirements into the future.

### 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 FortiGate consolidated security platforms. FortiOS software enables a comprehensive suite of security services – firewall, VPN, intrusion prevention, anti-malware, antispam, web filtering, application control, data loss prevention, vulnerability management, and endpoint 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.

### Features

### Benefits

#### Hardware Accelerated Performance

FortiASIC processors provide assurance that the security device will not become a bottleneck in the network

#### Additional Capacity on Demand

Fortinet expansion slots provide greater flexibility by supporting additional hardware-accelerated ports and localized storage of event data

#### Unified Security Architecture

FortiGate consolidated security provides better protection and lowered costs over multiple point security products

#### Centralized Management

FortiManager and FortiAnalyzer centralized management and reporting appliances simplify the deployment, monitoring, and maintenance of your security infrastructure



FortiGate-5140/5140B System



FortiGate-5020 System



FortiGate-5050 System

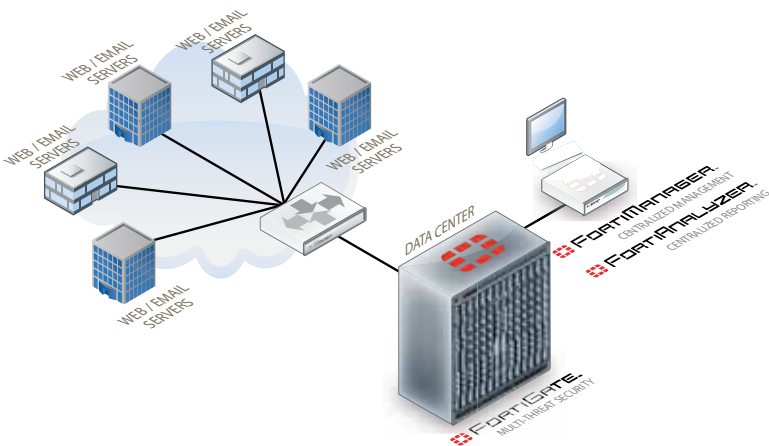
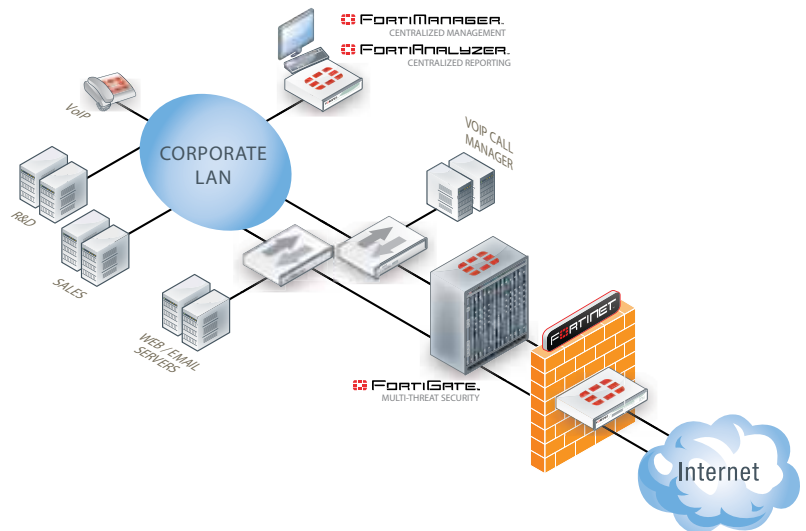


FortiGate-5060 System

# Secure large enterprise, service provider, and carrier networks.

## Next-Generation Perimeter Security

Firewalls alone aren't enough to block today's blended threats. When single packets are examined by point products with no concern for multi-vector attacks, blended threats often pass undetected. Combining content inspection firewall technology with gateway antivirus and intrusion prevention allows packet flows to be tracked. Fortinet multi-layered security technologies examine entire packet flows, from content inspection through reassembly, stopping threats at the perimeter before corporate resources are compromised.

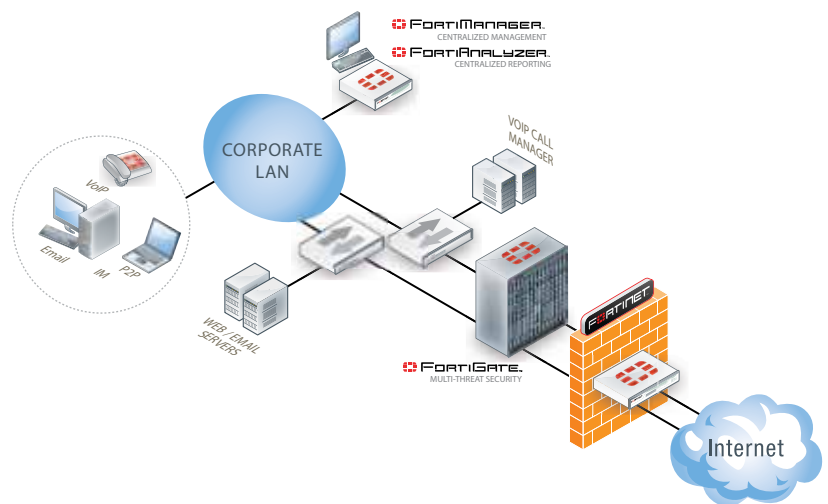


## MSSP Core Security

The FortiGate-5000 Series delivers comprehensive security for Managed Security Service Providers (MSSPs). The full suite of ASIC-accelerated security modules allows for customizable features for specific customers, while virtualization features like Virtual Domains (VDMs) provide up to 3,000 separate security domains. Finally, the full suite of Fortinet integrated management applications—including granular reporting features—offer unprecedented visibility into the security posture of customers while identifying their highest risks.

## Secure Messaging

Email is an essential corporate communication tool. Malware has adapted to this trend and email is now a primary vector of transmission for malware threats. Instant messaging and other social media are also quickly becoming a primary propagation vector as adoption rates increase. As with any new technology, IM introduces security risks in the form of a new generation of malware that could potentially infect corporate resources. By combining Fortinet antispam technology, application control, antivirus scanning, and web filtering, customers can secure email and other messaging, preventing costly data breaches.



Technical Specifications	FortiGate-5020	FortiGate-5050	FortiGate-5060	FortiGate-5140/5140B
<b>ATCA Chassis</b>				
Available Slots	2	5	6	14
High Availability Backplane Fabric	Built-in	Built-in	Built-in	Built-in
Dual Switch Module Support	No	Yes	Yes	Yes
Firewall Throughput (Max)	Up to 44 Gbps	Up to 110 Gbps	Up to 240 Gbps	Up to 480 Gbps
IPSec VPN Throughput (Max)	Up to 17 Gbps	Up to 42.5 Gbps	Up to 102 Gbps	Up to 204 Gbps
Concurrent Firewall Sessions (Max)	Up to 4 Million	Up to 10 Million	Up to 66 Million	Up to 132 Million
<b>Dimensions</b>				
Height	5.25 in (13.3 cm)	8.75 in	8.86 in (22 cm)	21 in (53.3 cm)
Width	17 in (43.2 cm)	17 in (43.2 cm)	17.64 in (44.8 cm)	19 in (48.3 cm)
Length	15.5 in (39.4 cm)	15.5 in (39.4 cm)	18.82 in (47.8 cm)	19 in (48.3 cm)
Weight	35.5 lb (16.1 Kg)	17.3 lb (7.85 Kg)	38 (17.3 Kg)	64.5 lb (29.3 Kg)
<b>Environment</b>				
Power Required	AC	DC/AC <sup>1</sup>	DC	DC/AC <sup>1</sup>
Power Consumption (AVG)	-	-	350 W	531 W
Heat Dissipation	-	-	1194 BTU/h	1812 BTU/h
Operating Temperature	32 – 104 deg F (0 – 40 deg C)	32 – 104 deg F (0 – 40 deg C)	41 – 104 deg F (5 – 40 deg C)	32 – 104 deg F (0 – 40 deg C)
Storage Temperature	-13 – 158 deg F (-35 – 70 deg C)	-13 – 158 deg F (-35 – 70 deg C)	23 – 131 deg F (-5 – 55 deg C)	-13 – 158 deg F (-35 – 70 deg C)
Humidity	5 to 90% non-condensing	5 to 90% non-condensing	5 to 85% non-condensing	5 to 90% non-condensing
<b>Compliance</b>				
Certifications	FCC Class A Part 15, UL/CUL, C Tick, VCCI			
Note: All performance values are "up to" and vary depending on system configuration.				
<sup>1</sup> Optional FortiGate-5053 Power Supply Shelf used to provide AC power to the FortiGate-5050 and FortiGate-5140 chassis. Optional FortiGate-5053B Power Supply Shelf used to provide AC power to the FortiGate-5140B chassis.				



FortiGate-5020 Security System



FortiGate-5050 Security System



FortiGate-5060 Security System



FortiGate-5140/5140B Security System

### The FortiGate-5000 series of consolidated security systems also include

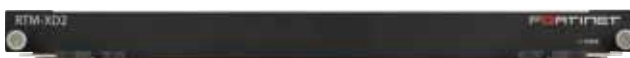
- Multiple Deployment Modes (Transparent/Routing)
- Backplane Switch Fabric
- Advanced Layer-2/3 Routing Capabilities
- High Availability (Active/Active, Active/Passive, Clustering)
- Virtual Domains (vDOMs)
- Data Center Traffic Optimization
- Traffic Shaping and Prioritization
- WAN Optimization
- Multiple Device Authentication Options

### Management Options

- Local Web-Based Management Interface
- Command Line Management Interface (CLI)
- Local Event Logging (Memory / Disk if available)
- Centralized Management (FortiManager Appliance Required)
- Centralized Event Logging (FortiAnalyzer Appliance Required)



RTM-XB2 Rear Transition Module



RTM-XD2 Rear Transition Module

### Rear Transition Modules

Provide enhanced 10-Gigabit Ethernet (10-GbE) backplane fabric connectivity to FortiGate systems. They include FortiASIC Network Processors for secure and low-latency communications.

Technical Specifications	RTM-XD2	RTM-XB2
<b>Rear Transition Modules</b>		
Application	Wire-speed 10-GbE backplane fabric	10-GbE backplane fabric
FortiASIC Hardware Acceleration	FortiASIC NP4	FortiASIC NP2
Compatible Chassis Models	FortiGate-5140/5140B and FortiGate-5050	
Compatible Networking Blade	FortiSwitch-5003A and FortiSwitch-5003B	
Compatible Security Blades	FortiGate-5001A-SW and FortiGate-5001A-DW	
Configuration Notes	1 RTM-XD2 module per FortiGate security blade	1 RTM-XB2 module per FortiGate security blade
<b>Performance</b>		
Firewall Performance (64, 512, 1518 byte UDP packets)	20 Gbps	11 Gbps
IPSec VPN	8 Gbps	8 Gbps
<b>Environment</b>		
Power Consumption (AVG)	148 W	
Operating Temperature	32 – 104 deg F (0 – 40 deg C)	
Storage Temperature	-13 – 158 deg F (-35 – 70 deg C)	
Humidity	5 to 90% non-condensing	
<b>Compliance</b>		
Certifications	FCC Class A Part 15, UL/CUL, C Tick, VCCI	
Note: All performance values are "up to" and vary depending on system configuration.		

## FortiGate-5000 Series Security Blades

Provide FortiOS consolidated security protections.



FortiGate-5001B Security Blade



FortiSwitch-5203B Networking/Security Blade



FortiGate-5001FA2 Security Blade



FortiGate-5001A-SW/DW Security Blade



FortiGate-5005FA2 Security Blade



FortiGate-5001SX Security Blade

Technical Specifications Security Blades	FortiGate-5001SX	FortiGate-5001FA2	FortiGate-5005FA2	FortiGate-5001A-SW / DW	FortiGate-5001B	FortiSwitch-5203B <sup>2</sup>
<b>Interfaces and Storage</b>						
10-GbE SFP+ Ports	0	0	0	With AMC Module	8	10
GbE SFP Ports	4	4	8	With AMC Module	0	0
10/100/1000 Base-T Ports	4	4	0	2 / 2	2	1
Total Ports	8	8	8	6 / 10	10	11
FortiASIC Network Processor Accelerated Ports	-	2	2	With AMC Module	8	8
Local Storage	-	-	-	With AMC Module	64 GB SSD	64 GB SSD
AMC-Based Expansion Slot	-	-	-	1 Single-Width / 1 Double-Width	-	-
<b>Performance</b>						
Firewall Throughput	4 Gbps	4 Gbps	5 Gbps	2 - 13 Gbps / 2 - 22 Gbps <sup>1</sup>	40 Gbps	40 Gbps
IPSec VPN Throughput	600 Mbps	600 Mbps	800 Mbps	800 Mbps - 8.5 Gbps <sup>1</sup>	17 Gbps	17 Gbps
IPS Throughput	2 Gbps (UDP)	2 Gbps (UDP)	1.5 Gbps	3.5 Gbps	5 Gbps	6 Gbps
Proxy-based Antivirus HTTP Throughput	250 Mbps	250 Mbps	300 Mbps	500 Mbps	1.5 Gbps	2 Gbps
Flow-based Antivirus Throughput	-	-	-	1.5 Gbps	2.2 Gbps	2.5 Gbps
Gateway-to-Gateway IPSec VPN Tunnels (System / VDOM)	10,000 / 5,000					
Client-to-Gateway IPSec VPN Tunnels	10,000	10,000	64,000	64,000	64,000	64,000
Firewall Concurrent Sessions (Max)	1.2 M	1.2 M	1 M	2 M	11 M	10 M
Firewall New Sessions/sec (Max)	20,000	20,000	30,000	50,000	96,000	150,000
SSL-VPN Users (Max)	2,000	3,000	5,000	8,000	20,000	20,000
SSL-VPN Throughput	111 Mbps	120 Mbps	310 Mbps	480 Mbps	530 Mbps	530 Mbps
Firewall Policies (Max)	100,000					
Virtual Domains (Standard/Optional)	10 / 250					
Unlimited User Licenses	Yes					
<b>Environment</b>						
Power Consumption (Avg)	132 W	132 W	187 W	148 W	187 W	210 W
Heat Dissipation (Avg)	451 BTU/h	451 BTU/h	639 BTU/h	505 BTU/h	639 BTU/h	718 BTU/h
Operating Temperature	32 – 104 deg F (0 – 40 deg C)					
Storage Temperature	-13 – 158 deg F (-35 – 70 deg C)					
Humidity	5 to 90% non-condensing					
<b>Compliance</b>						
Certifications	FCC Class A Part 15, UL/CUL, C Tick, VCCI					
Compliance	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB					

Note: All performance values are "up to" and vary depending on system configuration. Antivirus performance is benchmarked using HTTP traffic (32 Kbyte objects).

<sup>1</sup> Higher performance number combines performance provided by AMC modules.

<sup>2</sup> Operating in standalone mode.

## FortiSwitch-5000 Series Networking Blades

Provide advanced switching and load-balancing services.



FortiSwitch-5203B Networking/Security Blade



FortiSwitch-5003B Networking Blade



FortiSwitch-5003A Networking Blade

Technical Specifications Networking Blades	FortiSwitch-5003A	FortiSwitch-5003B	FortiSwitch-5203B <sup>3</sup>
<b>Interfaces</b>			
Fabric Channel Interfaces	8x 10-GbE SFP+	8x 10-GbE SFP+	8x 10-GbE SFP+
Base Channel Interfaces	1x 10-GbE SFP+ 2x 10/100/1000	2x 10-GbE SFP+ 1x 10/100/1000	2x 10-GbE SFP+ 1x 10/100/1000
Transceivers Included	2x 10-GbE SFP+ SR	2x 10-GbE SFP+ SR	2x 10-GbE SFP+ SR
Total Switching Throughput	225 Gbps	225 Gbps	300 Gbps
10-GbE Backplane Fabric Support	Yes (Requires RTM-XB2/RTM-XD2)	Yes	Yes
GbE Backplane Fabric Support	Yes	Yes	Yes
<b>Environment</b>			
Power Consumption (AVG)	148 W	150 W	210 W
Operating Temperature	32 – 104 deg F (0 – 40 deg C)		
Storage Temperature	-13 – 158 deg F (-35 – 70 deg C)		
Humidity	5 to 90% non-condensing		
<b>Compliance</b>			
Certifications	FCC Class A Part 15, UL/CUL, C Tick, VCCI		
Compliance	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB		
<sup>3</sup> Operating in distributed mode.			

## Advanced Mezzanine Card (AMC) Modules

Provide flexibility and acceleration to FortiGate-5001A-SW/DW Security Blades.

### Security Processing Modules

Accelerate Intrusion Prevention and Multicast applications.



ADM-XE2 Module



ASM-CE4 Module

### Bypass Modules

Provide power-failure bypass operation to FortiGate system.



ASM-CX4 Module



ASM-FX2 Module

### Storage Modules

Enable FortiOS security and administration functions that require local storage.



ASM-S08 Module

### Accelerated Interface Modules

Accelerate Firewall and VPN applications.



ADM-XD4 Module



ADM-XB2 Module



ADM-FB8 Module



ASM-FB4 Module

Note: See the respective module datasheet for complete technical specifications for AMC Modules.

Ordering Info		
Chassis	SKU	Description
FortiGate-5020 Chassis	FG-5020AC	2-slot chassis with fan and dual AC power supplies
FortiGate-5020 Fan Tray	FG-5020FA	Spare, Fan tray for FG-5020 chassis
FortiGate-5020/5050 Power Supply	FG-5020PS	FortiGate-5020/5050 power supply
FortiGate-5050 Chassis	FG-5050-DC	5-slot chassis with fan, 1 shelf manager card, DC powered
FortiGate-5050 Fan Tray	FG-5050FA	Fan tray for FG-5050 chassis
FortiGate-5050 Shelf Manager	FG-5050SM	Shelf manager for FG-5050 chassis
FortiGate-5050 Shelf Alarm Panel	FG-5050SAP	Shelf alarm panel for FG-5050 chassis
FortiGate-5060 Chassis	FG-5060-DC	6-slot chassis, 1 fan tray, 1 shelf manager, DC powered
FortiGate-5140 Chassis	FG-5140-DC	14-slot chassis with fan, 1 shelf manager card, no AC power supply included (DC powered)
FortiGate-5140B Chassis	FG-5140B-DC	14-slot chassis with fan, 1 shelf manager card, no AC power supply included (DC powered)
Security Blades	SKU	Description
FortiGate-5001SX	FG-5001SX	Security blade with 4 10/100/1000 ports and 4 SFP ports (4 SX-type transceivers included)
FortiGate-5001FA2	FG-5001FA2	Security blade with 4 10/100/1000 ports, 2 FortiASIC accelerated SFP ports (2 SX-type transceivers included), and 2 non-accelerated SFP ports
FortiGate-5005FA2	FG-5005FA2	Security blade with 2 FortiASIC-accelerated SFP ports (2 SX transceivers included) and 6 non-accelerated SFP ports
FortiGate-5001A-DW	FG-5001A-DW	Security blade with 2 10/100/1000 ports and 1 double-width AMC slot
FortiGate-5001A-SW	FG-5001A-SW	Security blade with 2 10/100/1000 ports and 1 single-width AMC slot
FortiGate-5001B	FG-5001B	Security blade with 8 FortiASIC-accelerated SFP+ ports (2 SR SFP+ transceivers included) and onboard 64GB SSD
Networking Blades	SKU	Description
FortiSwitch-5003A Network Blade	FS-5003A	Networking blade for FortiGate-5000 series with 8 SFP+ fabric ports, 1 SFP+ and 2 10/100/1000 base ports
FortiSwitch-5003B Network Blade	FS-5003B	Networking blade for FortiGate-5000 series with 8 SFP+ fabric ports, 2 SFP+ base ports, 1 10/100/1000 management port, includes 2 SR SFP+ transceivers
FortiSwitch-5203B Network Blade	FS-5203B	Networking blade for FortiGate-5000 series with 8 SFP+ Fabric ports, 2 SFP+ base ports, 1 10/100/1000 management port, includes 2 SR SFP+ transceivers
Modules	SKU	Description
ASM-FB4 Module	ASM-FB4	AMC Accelerated Interface Module, single-width, 4-port SFP, includes 4 SX SFP transceivers (Accelerated FW/VPN)
ASM-S08 Module	ASM-S08	AMC Storage Module, single-width, 80 GB hard disk drive (Local Disk-Based Storage)
ASM-CX4 Module	ASM-CX4	AMC Bypass Module, single-width, 4-port 10/100/1000 (Power Failure Bypass)
ASM-FX2 Module	ASM-FX2	AMC Bypass Module, single-width, 2-port fiber bypass module, LC-type Connectors (Power Failure Bypass)
ASM-CE4 Module	ASM-CE4	AMC Security Processing Module, single-width, 4-port 10/100/1000, (Accelerated IPS / Multicast)
ADM-FB8 Module	ADM-FB8	AMC Accelerated Interface Module, double-width, 8-port SFP, includes 4 SX SFP transceivers (Accelerated FW/VPN)
ADM-XB2 Module	ADM-XB2	AMC Accelerated Interface Module, double-width, 2-port 10-GbE XFP, includes 2 SR XFP transceivers (Accelerated FW/VPN)
ADM-XD4 Module	ADM-XD4	AMC Accelerated Interface Module, double-width, 4 port 10-GbE SFP+, includes 2 SR SFP+ transceivers (Accelerated FW/VPN)
ADM-XE2 Module	ADM-XE2	AMC Security Processing Module, double-width, 2 port 10-GbE XFP, accelerated IPS, includes 2 SR XFP transceivers (Accelerated FW/VPN)
RTM-XB2 Module	RTM-XB2	Rear Transition Module for FG-5000 series, 2 10-GbE internal ports for backplane fabric
RTM-XD2 Module	RTM-XD2	Rear transition module for FG-5000 series, 2 10-GbE internal ports for backplane fabric
Other Accessories	SKU	Description
LX Transceiver Module	FG-TRAN-LX	Transceiver LX module for all FortiGate models with SFP interfaces
TX Transceiver Module	FG-TRAN-GC	Transceiver Base-T (Copper) module for all FortiGate models with SFP interfaces, supports 10/100/1000 operation
SX Transceiver Module	FG-TRAN-SX	Transceiver SX module for all FortiGate models with SFP interfaces
SFP+ Transceiver Module	FG-TRAN-SFP+SR	10-GbE transceiver, short range SFP+ module for all FortiGate models with SFP+ interfaces
XFP Transceiver Module	FG-TRAN-XFPSR	10-GbE transceiver, short range XFP module for all FortiGate models with XFP interfaces
SFP+ Long Range Transceiver Module	FG-TRAN-SFP+LR	10-GbE transceiver, SFP+, Long Range
XFP Long Range Transceiver Module	FG-TRAN-XFPLR	10-GbE transceiver, XFP, Long Range

## FortiOS Security Services

### FIREWALL

ICSA Labs Certified (Enterprise Firewall)  
 NAT, PAT, Transparent (Bridge)  
 Routing Mode (RIP, OSPF, BGP, Multicast)  
 Policy-Based NAT  
 Virtual Domains (NAT/Transparent mode)  
 VLAN Tagging (802.1Q)  
 Group-Based Authentication & Scheduling  
 SIP/H.323 /SCCP NAT Traversal  
 WINS Support  
 Explicit Proxy Support (Citrix/TS etc.)  
 VoIP Security (SIP Firewall/RTP Pinholing)  
 Granular Per-Policy Protection Profiles  
 Identity/Application-Based Policy  
 Vulnerability Management  
 IPv6 Support (NAT/Transparent mode)

### ANTIVIRUS / ANTISPYWARE

ICSA Labs Certified (Gateway Antivirus)  
 Includes Antispyware and Worm Prevention:  
 HTTP/HTTPS SMTP/SMTSPS  
 POP3/POP3S IMAP/IMAPS  
 FTP IM Protocols  
 Flow-Based Antivirus Scanning Mode  
 Automatic "Push" Content Updates  
 File Quarantine Support  
 Databases: Standard, Extended, Extreme, Flow  
 IPv6 Support

### INTRUSION PREVENTION SYSTEM (IPS)

ICSA Labs Certified (NIPS)  
 Protection From Over 3000 Threats  
 Protocol Anomaly Support  
 Custom Signature Support  
 Automatic Attack Database Update  
 IPv6 Support

### APPLICATION CONTROL

Identify and Control Over 1,600 Applications  
 Control Popular Apps Regardless of Port/Protocol:  
 AOL-IM Yahoo MSN KaZaa  
 ICQ Gnutella BitTorrent MySpace  
 WinNY Skype eDonkey Facebook

## FortiOS Security Services (cont.)

### VIRTUAL PRIVATE NETWORK (VPN)

- ICSA Labs Certified (IPSec)
- PPTP, IPSec, and SSL Dedicated Tunnels
- SSL-VPN Concentrator (incl. iPhone client support)
- DES, 3DES, and AES Encryption Support
- SHA-1/MD5 Authentication
- PPTP, L2TP, VPN Client Pass Through
- Hub and Spoke VPN Support
- IKE Certificate Authentication (v1 & v2)
- IPSec NAT Traversal
- Automatic IPSec Configuration
- Dead Peer Detection
- RSA SecurID Support
- SSL Single Sign-On Bookmarks
- SSL Two-Factor Authentication
- LDAP Group Authentication (SSL)

### NETWORKING/ROUTING

- Multiple WAN Link Support
- PPPoE Support
- DHCP Client/Server
- Policy-Based Routing
- Dynamic Routing for IPv4 and IPv6 (RIP, OSPF, BGP, & Multicast for IPv4)
- Multi-Zone Support
- Route Between Zones
- Route Between Virtual LANs (VDOMS)
- Multi-Link Aggregation (802.3ad)
- IPv6 Support (Firewall, DNS, Transparent Mode, SIP, Dynamic Routing, Admin Access, Management)
- RRRP and Link Failure Control
- sFlow Client

### USER AUTHENTICATION OPTIONS

- Local Database
- Windows Active Directory (AD) Integration
- External RADIUS/LDAP Integration
- Xauth over RADIUS for IPSEC VPN
- RSA SecurID Support
- LDAP Group Support

### DATA CENTER OPTIMIZATION

- Web Server Caching
- TCP Multiplexing
- HTTPS Offloading
- WCCP Support

### WEB FILTERING

- 76 Unique Categories
- FortiGuard Web Filtering Service Categorizes over 2 Billion Web pages
- HTTP/HTTPS Filtering
- Web Filtering Time-Based Quota
- URL/Keyword/Phrase Block
- URL Exempt List
- Content Profiles
- Blocks Java Applet, Cookies, Active X
- MIME Content Header Filtering
- IPv6 Support

### HIGH AVAILABILITY (HA)

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

### WAN OPTIMIZATION

- Bi-directional / Gateway to Client/Gateway
- Integrated Caching and Protocol Optimization
- Accelerates CIFS/FTP/MAPI/HTTP/HTTPS/Generic TCP

### VIRTUAL DOMAINS (VDOMS)

- Separate Firewall/Routing Domains
- Separate Administrative Domains
- Separate VLAN Interfaces
- 10 VDOM License Std. (more can be added)

### TRAFFIC SHAPING

- Policy-based Traffic Shaping
- Application-based and Per-IP Traffic Shaping
- Differentiated Services (DiffServ) Support
- Guarantee/Max/Priority Bandwidth
- Shaping via Accounting, Traffic Quotas

### WIRELESS CONTROLLER

- Unified WiFi and Access Point Management
- Automatic Provisioning of APs
- On-wire Detection and Blocking of Rogue APs
- Virtual APs with Different SSIDs
- Multiple Authentication Methods

### DATA LOSS PREVENTION (DLP)

- Identification and Control Over Sensitive Data in Motion
- Built-in Pattern Database
- RegEx-based Matching Engine for Customized Patterns
- Configurable Actions (block/log)
- Supports IM, HTTP/HTTPS, and More
- Many Popular File Types Supported
- International Character Sets Supported

### ANTISPAM

- Support for SMTP/SMTPTS, POP3/POP3S, IMAP/IMAPS
- 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

### ENDPOINT COMPLIANCE AND CONTROL

- Monitor & Control Hosts Running FortiClient Endpoint Security

### LOGGING/MONITORING/VULNERABILITY

- Local Event Logging
- Log to Remote Syslog/WELF Server
- Graphical Real-Time and Historical Monitoring
- SNMP Support
- Email Notification of Viruses And Attacks
- VPN Tunnel Monitor
- Optional FortiAnalyzer Logging / Reporting
- Optional FortiGuard Analysis and Management Service

### MANAGEMENT/ADMINISTRATION

- Console Interface (RS-232)
- WebUI (HTTP/HTTPS)
- Telnet / Secure Command Shell (SSH)
- Command Line Interface
- Role-Based Administration
- Multi-language Support: English, Japanese, Korean, Spanish, Chinese (Simplified & Traditional), French
- Multiple Administrators and User Levels
- Upgrades and Changes via TFTP and WebUI
- System Software Rollback
- Configurable Password Policy
- Optional FortiManager Central Management

Note: The list above is comprehensive and may contain FortiOS features which are not available on all FortiGate appliances. Consult FortiGate system documentation to determine feature availability.



**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 support or 24x7 Comprehensive Support with advanced hardware replacement. Options include Premium Support, Premium RMA, and Professional Services. All hardware products include a 1-year limited hardware warranty and a 90-day limited software warranty.



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