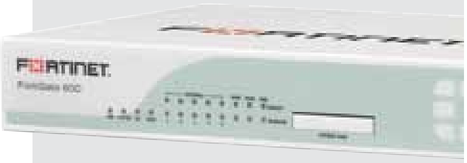
DATASHEET



FortiGate®/FortiWiFi™-60C Series

Integrated Threat Management for Frontline Locations

Enterprise-Class Protection for Remote Offices, Retail, and Customer Premise Equipment

FortiGate/FortiWiFi-60C series of consolidated security appliances deliver comprehensive enterprise-class protection for smaller locations, branch offices, customer premise equipment (CPE) and retail networks. An integrated set of essential security technologies deployed in a single device protects all of your applications and data. Simple per-device pricing, an integrated management console, and remote management capabilities significantly reduce your procurement, deployment and administration costs.

Comprehensive Protection and Optional Wireless Capability

FortiGate consolidated security appliances deliver an unmatched range of security technologies. They integrate essential firewall, IPSec and SSL VPN, application control, intrusion prevention, antivirus, and web filtering protection into a single device at a single price, all managed from a "single-pane-of-glass" console. They also include other security technologies, such as data loss prevention (DLP), encrypted SSL inspection, endpoint NAC, WAN optimization, and vulnerability management. In addition, Fortinet's FortiGuard® Labs is on duty around the clock and around the world, monitoring changes in the threat landscape. FortiGuard Labs deliver dynamic threat updates to protect your network against emerging threats.

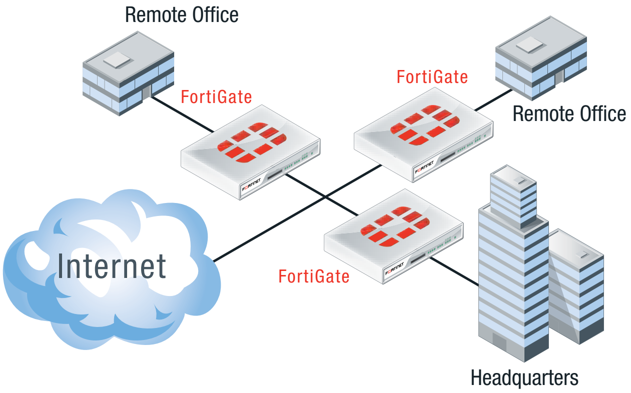
FortiWiFi-60C/CM/CX appliances deliver the protection and performance you need with the convenience of wireless networking. Dual-band capabilities and support for 802.11a/b/g/n standards ensure compatibility with your existing network infrastructure. Multiple SSID support allows you to create multiple wireless access networks, enabling unencrypted guest or contractor access to the Internet while limiting access to corporate networks.

Purpose-Built Performance and Reliability

Fortinet's purpose-built hardware and software prevent your network security from becoming your network bottleneck. Custom FortiASIC processors maximize throughput while blocking unauthorized access and eliminating unwanted traffic from your network. The purpose-built FortiOS operating system gives you unmatched flexibility to deploy the technology you need to enforce your security policies.

FortiGate/FortiWiFi-60C Series Benefits

- Comprehensive protection against network, content, and application-level threats
- Segmentation of internal traffic and full security for perimeter-bound traffic
- Fortinet's purpose-built FS1 SoC processor delivers Gigabit firewall throughput
- GbE switched internal ports with dedicated WAN and DMZ ports
- ADSL-A interface delivers high-speed consolidated DSL router and security gateway
- Internal storage enables local log records and graphical reports
- WAN optimization and web caching improve network performance
- ExpressCard support and USB-based wireless broadband allow fast deployment of secure networks
- FortiExplorer setup utility provides easy setup and configuration



FORTIGATE IN THE DISTRIBUTED ENTERPRISE

Industry Certifications

ICSA labs CERTIFIED SSL VPN

ICSA labs CERTIFIED FIREWALL - CORPORATE

ICSA labs CERTIFIED ANTI-VIRUS

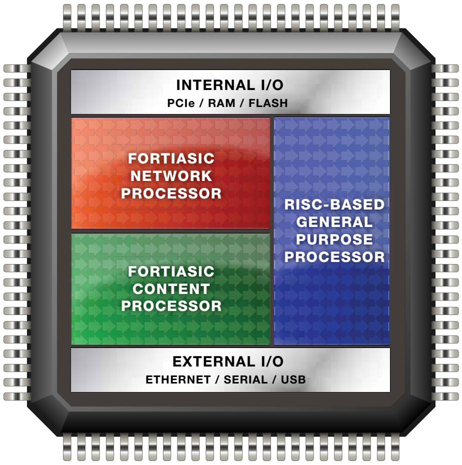
ICSA labs CERTIFIED NETWORK IPS

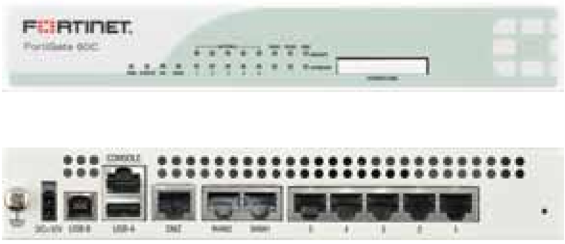
ICSA labs CERTIFIED IPSEC - BASIC

The Fortinet FS1 System-on-a-Chip

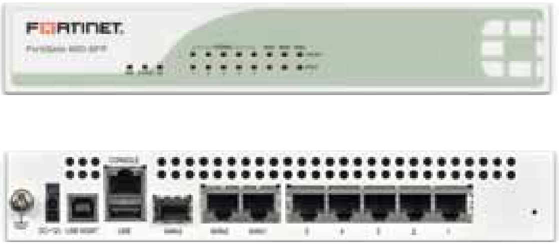
The FortiGate/FortiWiFi-60C series represent a new generation of desktop network security appliances from Fortinet, and include the first Fortinet System-on-a-chip (SoC), the FS1. Integrating FortiASIC acceleration logic together with a RISC-based main processor and other system components, the FS1 SoC simplifies appliance design and enables breakthrough performance for smaller networks.

The FS1 and resulting FortiGate/FortiWiFi-60C series appliances allow large distributed enterprises to provide integrated, multi-threat protection across all points on their network without sacrificing performance.


INTERNAL I/O
PCIe / RAM / FLASH
FORTIASIC NETWORK PROCESSOR
RISC-BASED GENERAL PURPOSE PROCESSOR
FORTIASIC CONTENT PROCESSOR
EXTERNAL I/O
ETHERNET / SERIAL / USB



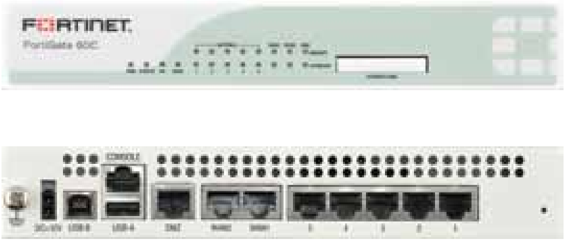
FortiGate-60C



FortiGate-60C-SFP

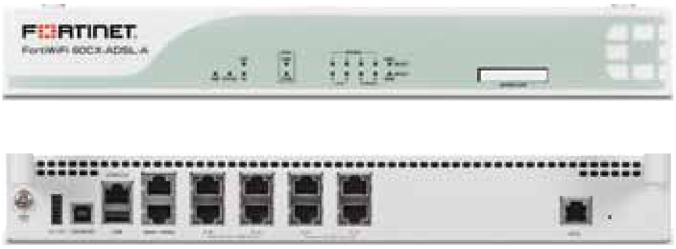
FortiWiFi-60C

(Wireless antennas not shown)



FortiWiFi-60CM

(Wireless antennas not shown)



FortiWiFi-60CX-ADSL-A

(Wireless antennas not shown)

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 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.

Firewall

Fortinet firewall technology delivers complete content and network protection by combining stateful inspection with a comprehensive suite of powerful security features. Application control, antivirus, IPS, Web filtering and VPN, along with advanced features such as an extreme threat database, vulnerability management and flow-based inspection work in concert to identify and mitigate the latest complex security threats. The security-hardened FortiOS operating system works together with purpose-built FortiASIC processors to accelerate inspection throughput and identification of malware.

Features

NAT, PAT and Transparent (Bridge)
Policy-Based NAT
SIP/H.323/SCCP NAT Traversal
VLAN Tagging (802.1Q)
Vulnerability Management
IPv6 Support

Firewall Throughput	
1518 Byte Packets	1 Gbps
512 Byte Packets	1 Gbps
64 Byte Packets	1 Gbps

Intrusion Prevention

IPS technology protects against current and emerging network-level threats. In addition to signature-based threat detection, IPS performs anomaly-based detection which alerts users to any traffic that matches attack behavior profiles. The Fortinet threat research team analyzes suspicious behavior, identifies and classifies emerging threats, and generate new signatures to include with FortiGuard Service updates.

Features

Automatic Database Updates
Protocol Anomaly Support
IPS and DoS Prevention Sensor
Custom Signature Support
IPv6 Support

IPS Throughput	
IPS	135 Mbps

Antivirus / Antispyware

Antivirus content inspection technology protects against viruses, spyware, worms, and other forms of malware which can infect network infrastructure and endpoint devices. By intercepting and inspecting application-based traffic and content, antivirus protection ensures that malicious threats hidden within legitimate application content are identified and removed from data streams before they can cause damage. FortiGuard subscription services ensure that FortiGate devices are updated with the latest malware signatures for high levels of detection and mitigation.

Features

Automatic Database Updates
Proxy-based Antivirus
Flow-based Antivirus
File Quarantine
IPv6 Support

Antivirus Performance	
Antivirus Throughput (Proxy Based)	20 Mbps
Antivirus Throughput (Flow Based)	40 Mbps

VPN

Fortinet VPN technology provides secure communications between multiple networks and hosts, using SSL and IPsec VPN technologies. Both services leverage our custom FortiASIC processors to provide acceleration in the encryption and decryption steps. The FortiGate VPN service enforces complete content inspection and multi-threat protections including antivirus, intrusion prevention and Web filtering. Traffic optimization provides prioritization for critical communications traversing VPN tunnels.

Features

IPSec and SSL VPN
DES, 3DES, AES and SHA-1/MD5 Authentication
PPTP, L2TP, VPN Client Pass Through
SSL Single Sign-On Bookmarks
Two-Factor Authentication

VPN Performance	
IPSec VPN Throughput	70 Mbps
SSL VPN Throughput	15 Mbps
Max Concurrent SSL-VPN Users	60
Client-to-Gateway IPSec VPN Tunnels	500

WAN Optimization

Wide Area Network (WAN) optimization accelerates applications over geographically dispersed networks, while ensuring multi-threat inspection of all network traffic. WAN optimization eliminates unnecessary and malicious traffic, optimizes legitimate traffic, and reduces the amount of bandwidth required to transmit data between applications and servers. Improved application performance and delivery of network services reduces bandwidth and infrastructure requirements, along with associated expenditures.

Features

Gateway-to-Gateway Optimization
Bidirectional Gateway-to-client Optimization
Web Caching
Secure Tunnel
Transparent Mode

Endpoint NAC

Endpoint NAC can enforce the use of FortiClient Endpoint Security for users connecting to corporate networks. Endpoint NAC verifies FortiClient Endpoint Security installation, firewall operation and up-to-date antivirus signatures before allowing network access. Non-compliant endpoints, such as endpoints running applications that violate security policies can be quarantined or sent to remediation.

Features

Monitor & Control Hosts Running FortiClient
Vulnerability Scanning of Network Nodes
Quarantine Portal
Application Detection and Control
Built-in Application Database

Web Filtering

Web filtering protects endpoints, networks and sensitive information against Web-based threats by preventing users from accessing known phishing sites and sources of malware. In addition, administrators can enforce policies based on Website categories to easily prevent users from accessing inappropriate content and clogging networks with unwanted traffic.

Features

HTTP/HTTPS Filtering
URL / Keyword / Phrase Block
Blocks Java Applet, Cookies or Active X
MIME Content Header Filtering
Flow-based Web Filtering
IPv6 Support

SSL-Encrypted Traffic Inspection

SSL-encrypted traffic inspection protects endpoint clients and Web and application servers from hidden threats. SSL Inspection intercepts encrypted traffic and inspects it for threats prior to routing it to its final destination. It can be applied to client-oriented SSL traffic, such as users connecting to cloud-based CRM site, and to inbound Web and application server traffic. SSL inspection enables you to enforce appropriate use policies on encrypted Web content and to protect servers from threats which may be hidden inside encrypted traffic flows.

Features

Protocol support:
HTTPS, SMTPS, POP3S, IMAPS
Inspection support: Antivirus, Web Filtering, Antispam, Data Loss Prevention, SSL Offload

Data Loss Prevention

DLP uses a sophisticated pattern-matching engine to identify and prevent the transfer of sensitive information outside of your network perimeter, even when applications encrypt their communications. In addition to protecting your organization’s critical data, Fortinet DLP provides audit trails to aid in policy compliance. You can select from a wide range of configurable actions to log, block, and archive data, and quarantine or ban users.

Features

Identification and Control Over Data in Motion
Built-in Pattern Database
RegEx Based Matching Engine
Common File Format Inspection
International Character Sets Supported
Flow-based DLP

Logging, Reporting and Monitoring

FortiGate consolidated security appliances provide extensive logging capabilities for traffic, system, and network protection functions. They also allow you to assemble drill-down and graphical reports from detailed log information. Reports can provide historical and current analysis of network activity to aid with identification of security issues and to prevent network misuse and abuse.

Features

Internal Log storage and Report Generation
Graphical Real-Time and Historical Monitoring
Graphical Report Scheduling Support
Graphical Drill-down Charts
Optional FortiAnalyzer Logging (including per VDOM)
Optional FortiGuard Analysis and Management Service

High Availability

High Availability (HA) configurations enhance reliability and increase performance by clustering multiple FortiGate appliances into a single entity. FortiGate High Availability supports Active-Active and Active-Passive options to provide maximum flexibility for utilizing each member within the HA cluster. The HA feature is included as part of the FortiOS operation system and is available with most FortiGate appliances.

Features

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

Virtual Domains

Virtual Domains (VDOMs) enable a single FortiGate system to function as multiple independent virtual FortiGate systems. Each VDOM contains its own virtual interfaces, security profiles, routing table, administration, and many other features. FortiGate VDOMs reduce the complexity of securing disparate networks by virtualizing security resources on the FortiGate platform, greatly reducing the power and footprint required as compared to multiple point products. Ideal for large enterprise and managed service providers.

Features

Separate Firewall / Routing Domains
Separate Administrative Domains
Separate VLAN Interfaces
Maximum VDOMs: 10
Default VDOMs: 10

Wireless Controller

All FortiGate and FortiWiFi™ consolidated security platforms have an integrated wireless controller, enabling centralized management of FortiAP™ secure access points and wireless LANs. Unauthorized wireless traffic is blocked, while allowed traffic is subject to identity-aware firewall policies and multi-threat security inspection. From a single console you can control network access, update security policies, and enable automatic identification and suppression of rogue access points.

Features

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

Application Control

Application control enables you to define and enforce policies for thousands of applications running across networks regardless of port or the protocol used for communication. The explosion of new Internet-based and Web 2.0 applications bombarding networks today make application control essential, as most application traffic looks like normal Web traffic to traditional firewalls. Fortinet application control provides granular control of applications along with traffic shaping capabilities and flow-based inspection options.

Features

Identify and Control Over 1,800 Applications
Traffic Shaping (Per Application)
Control Popular Apps Regardless of Port or Protocol
Popular Applications include:

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

and more...

Setup / Configuration Options

Fortinet provides administrators with a variety of methods and wizards for configuring FortiGate appliances during deployment. From the easy-to-use Web-based interface to the advanced capabilities of the command-line interface, FortiGate systems offer the flexibility and simplicity you need.

Features

FortiExplorer Setup Wizard over USB (FG-60C/FWF-60C/FWF-60CM/FWF-60CX-ADSL)
Web-based User Interface
Command Line Interface (CLI) Over Serial Connection
Pre-configured Settings from USB Drive

Technical Specifications	FortiGate-60C	FortiGate-60C-SFP	FortiWiFi-60C	FortiWiFi-60CM	FortiWiFi-60CX-ADSL-A
Interfaces					
10/100/1000 Internal Switch Interfaces (RJ-45)	5	5	5	5	4
10/100 Internal Switch Interfaces (RJ-45)	-	-	-	-	4
10/100/1000 WAN Interfaces (RJ-45)	2	2	2	2	2
GbE SFP WAN Interfaces		1			
10/100/1000 DMZ Interfaces (RJ-45)	1	0	1	1	-
Modem Port	-	-	-	1	-
ADSL2+ Annex A Interface	-	-	-	-	1
Management Console Interface (RJ-45)	1				
USB Interfaces (Client / Server)	1 / 1				
ExpressCard Slot	1	-	1	1	1
Internal Storage	8 GB				
Wireless Standards Supported	-	-	802.11 a/b/g/n	802.11 a/b/g/n	802.11 a/b/g/n
System Performance					
Firewall Throughput (1518 / 512 / 64 byte UDP packets)	1 / 1 / 1 Gbps				
Firewall Latency (64 byte UDP packets)	4 μs				
Firewall Throughput (Packets Per Second)	1.5 Mpps				
Concurrent Sessions (TCP)	400,000				
New Sessions/Sec (TCP)	3,000				
Firewall Policies (System / VDOM)	5,000 / 500				
IPSec VPN Throughput (512 byte packets)	70 Mbps				
Gateway-to-Gateway IPSec VPN Tunnels (System / VDOM)	50 / 50				
Client-to-Gateway IPSec VPN Tunnels	500				
SSL-VPN Throughput	15 Mbps				
Concurrent SSL-VPN Users (Recommended Max)	60				
IPS Throughput	135 Mbps				
Antivirus Throughput (Proxy Based / Flow Based)	20 / 40 Mbps				
Virtual Domains (Max / Default)	10 / 10				
Max Number of FortiAPs	5				
Max Number of FortiTokens	500				
High Availability Configurations	Active/Active, Active/Passive, Clustering				
Unlimited User Licenses	Yes				
Dimensions					
Height x Width x Length	1.50 x 8.50 x 5.83 in (38 x 216 x 148 mm)	1.50 x 8.50 x 5.91 in (38 x 216 x 150 mm)	1.50 x 8.50 x 6.18 in (38 x 216 x 157 mm)		1.75 x 13.56 x 8.27 in (44 x 344 x 210 mm)
Weight	1.9 lbs (0.9 kg)				4.7 lbs (2.1 kg)
Wall Mountable	Yes				No
Power and Environment					
Power Required	100-240 VAC, 50-60 Hz				
Power Consumption (AVG)	15.7 W	13.3W	19 W	11.6 W	19.7 W
Heat Dissipation	53.6 BTU/hr	45.4 BTU/hr	64.8 BTU/hr	47.5 BTU/hr	81.9 BTU/hr
Operating Temperature / Storage Temperature	32 – 104 deg F (0 – 40 deg C) / -13 – 158 deg F (-25 – 70 deg C)				
Humidity	20 to 90% non-condensing				
Compliance					
Industry Certifications	ICSA Labs: Firewall, IPSec, IPS, Antivirus, SSL VPN				
Safety Certifications	FCC Part 15 Class B, C-Tick, VCCI, CE, UL/cUL, CB				

All performance values are “up to” and vary depending on system configuration. Antivirus performance is measured using 44 Kbyte HTTP files. IPS performance is measured using 1 Mbyte HTTP files.

Ordering Information

SKU	Description
FG-60C	(2) 10/100/1000 WAN ports, (1) 10/100/1000 DMZ port, (5) 10/100/1000 internal switch ports, (2) USB, ExpressCard slot, 8GB internal storage
FG-60C-SFP	Dual 10/100 WAN ports, SFP port, 5 port 10/100/1000 internal switch
FWF-60C	Wireless (802.11a/b/g/n), (2) 10/100/1000 WAN ports, (1) 10/100/1000 DMZ port, (5) 10/100/1000 internal switch ports, (2) USB, ExpressCard slot, 8GB internal storage
FWF-60CM	Wireless (802.11a/b/g/n), (2) 10/100 WAN ports, (1) 10/100 DMZ port, (5) 10/100/1000 internal switch ports, (1) ExpressCard slot, analog modem port
FWF-60CX-ADSL-A	Wireless (802.11a/b/g/n), (2) 10/100/1000 WAN ports, (4) 10/100/1000 ports, 4-port 10/100 internal switch, (1) ADSL2+ Annex A interface, ExpressCard slot, 8GB local storage

FortiWiFi-60C Series Region/Country SKU Suffix Information

Region/Country	International	Korea	Japan	Configurable
SKU Suffix	-I	-K	-J	No Suffix
Frequency Range (GHz)	2.400 - 2.483 5.150 - 5.250	2.400 - 2.483 5.150 - 5.250 5.725 - 5.825	2.400 - 2.483 5.150 - 5.250 5.250 - 5.350* 5.470 - 5.725*	2.400 - 2.483 5.150 - 5.250 5.725 - 5.850

* Requires FortiOS 4.3.10 or later with DFS feature enabled.

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