

FortiGate® 60F Series

FortiGate 60F and 61F

Secure SD-WAN
Unified Threat Management



The FortiGate 60F series offers an excellent Security and SD-WAN solution in a compact fanless desktop form factor for enterprise branch offices and mid-sized businesses. Protect against cyber threats with industry-leading secure SD-WAN in a simple, affordable and easy to deploy solution.

Security

- Identifies thousands of applications inside network traffic for deep inspection and granular policy enforcement
- Protects against malware, exploits, and malicious websites in both encrypted and non-encrypted traffic
- Prevent and detect against known and unknown attacks using continuous threat intelligence from AI powered FortiGuard Labs security services

Performance

- Delivers industry's best threat protection performance and ultra-low latency using purpose-built security processor (SPU) technology
- Provides industry-leading performance and protection for SSL encrypted traffic

Certification

- Independently tested and validated best security effectiveness and performance
- Received unparalleled third-party certifications from NSS Labs, ICSA, Virus Bulletin and AV Comparatives

Networking

- Best of Breed SD-WAN capabilities to enable application steering using WAN path control for high quality of experience
- Delivers advanced networking capabilities, high-performance, and scalable IPsec VPN capabilities

Management

- Includes Management Console that's effective, simple to use, and provides comprehensive network automation & visibility.
- Provides Zero Touch Integration with Security Fabric's Single Pane of Glass Management
- Predefined compliance checklist analyzes the deployment and highlights best practices to improve overall security posture

Security Fabric

- Enables Fortinet and Fabric-ready partners' products to provide broader visibility, integrated end-to-end detection, threat intelligence sharing and automated remediation
- Automatically builds Network Topology visualizations which discover IoT devices and provide complete visibility into Fortinet and Fabric-ready partner products

Firewall	IPS	NGFW	Threat Protection	Interfaces
10 Gbps	1.4 Gbps	1 Gbps	700 Mbps	Multiple GE RJ45 Variants with internal storage

Refer to specification table for details

Deployment



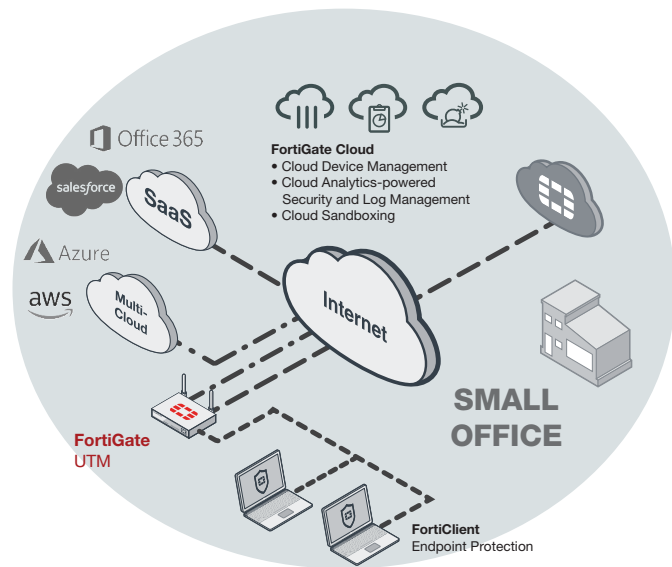
Unified Threat Management (UTM)

- Integrated wired and wireless networking to simplify IT
- Purpose-built hardware for industry best performance with easy administration through cloud management
- Provides consolidated security and networking for small businesses and consistently provides top-rated threat protection
- Proactively blocks newly discovered sophisticated attacks in real-time with advanced threat protection

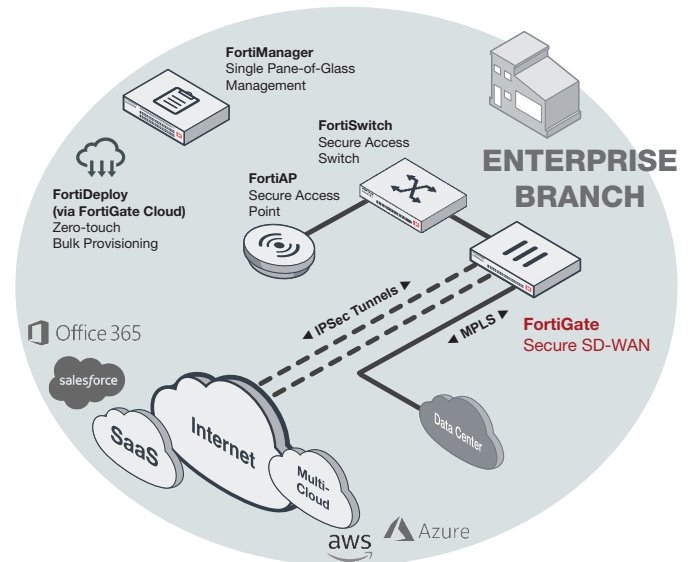


Secure SD-WAN

- Secure direct Internet access for Cloud Applications for improved latency and reduce WAN cost spending
- High-performance and cost-effective threat protection capabilities
- WAN Path Controller and Link Health Monitoring for better application performance and quality of experience
- Security Processor powered industry's best IPsec VPN and SSL Inspection performance
- Simplified Management and Zero Touch deployment



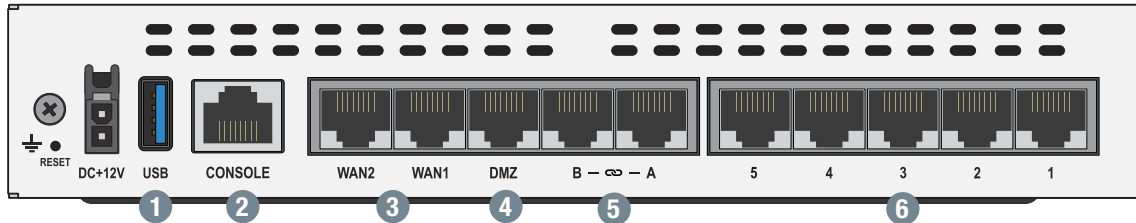
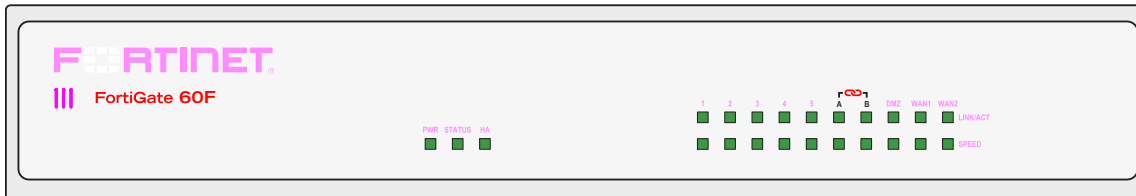
FortiGate 60F deployment in Small Office (UTM)



FortiGate 60F deployment in Enterprise Branch (Secure SD-WAN)

Hardware

FortiGate 60F/61F



Interfaces

- | | |
|-------------------------|-------------------------------|
| 1. USB Port | 4. 1x GE RJ45 DMZ Port |
| 2. Console Port | 5. 2x GE RJ45 FortiLink Ports |
| 3. 2x GE RJ45 WAN Ports | 6. 5x GE RJ45 Internal Ports |

Powered by Purpose-built Secure SD-WAN ASIC SOC4



- Combines a RISC-based CPU with Fortinet's proprietary Security Processing Unit (SPU) content and network processors for unmatched performance
- Delivers industry's fastest application identification and steering for efficient business operations
- Accelerates IPsec VPN performance for best user experience on direct internet access
- Enables best of breed NGFW Security and Deep SSL Inspection with high performance
- Extends security to access layer to enable SD-Branch transformation with accelerated and integrated switch and access point connectivity

3G/4G WAN Connectivity

The FortiGate 60F Series includes a USB port that allows you to plug in a compatible third-party 3G/4G USB modem, providing additional WAN connectivity or a redundant link for maximum reliability.

Compact and Reliable Form Factor

Designed for small environments, you can place it on a desktop or wall-mount it. It is small, lightweight yet highly reliable with superior MTBF (Mean Time Between Failure), minimizing the chance of a network disruption.

Extends Security to Access Layer with FortiLink Ports

FortiLink protocol enables you to converge security and the network access by integrating the FortiSwitch into the FortiGate as a logical extension of the NGFW. These FortiLink enabled ports can be reconfigured as regular ports as needed.

Fortinet Security Fabric

Security Fabric

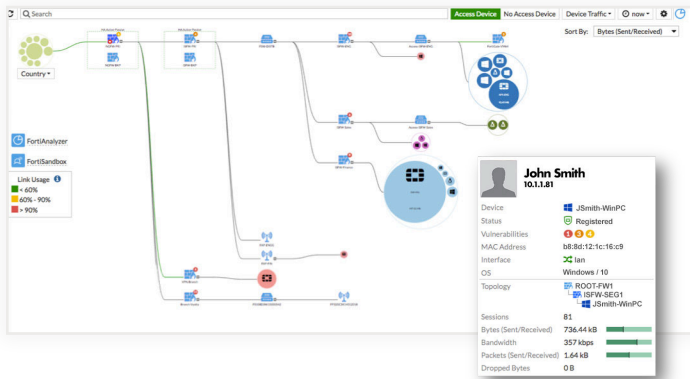
The Security Fabric delivers broad visibility, integrated AI-driven breach prevention, and automated operations, orchestration, and response across all Fortinet and its ecosystem deployments. It allows security to dynamically expand and adapt as more and more workloads and data are added. Security seamlessly follows and protects data, users, and applications as they move between IoT, devices, and cloud environments throughout the network. All this is tied together under a single pane of glass management for significantly thereby delivering leading security capabilities across your entire environment while also significantly reducing complexity.

FortiGates are the foundation of Security Fabric, expanding security via visibility and control by tightly integrating with other Fortinet security products and Fabric-Ready Partner solutions.



FortiOS

Control all security and networking capabilities across the entire FortiGate platform with one intuitive operating system. Reduce complexity, costs, and response time with a truly consolidated next-generation security platform.



Services



FortiGuard Labs offers real-time intelligence on the threat landscape, delivering comprehensive security updates across the full range of Fortinet’s solutions. Comprised of security threat researchers, engineers, and forensic specialists, the team collaborates with the world’s leading threat monitoring organizations and other network and security vendors, as well as law enforcement agencies.



Our FortiCare customer support team provides global technical support for all Fortinet products. With support staff in the Americas, Europe, Middle East, and Asia, FortiCare offers services to meet the needs of enterprises of all sizes.



For more information, please refer to forti.net/fortiguard and forti.net/forticare

Specifications

	FORTIGATE 60F	FORTIGATE 61F
Hardware Specifications		
GE RJ45 WAN / DMZ Ports		2 / 1
GE RJ45 Internal Ports		5
GE RJ45 FortiLink Ports		2
GE RJ45 PoE/+ Ports		–
Wireless Interface		–
USB Ports		1
Console (RJ45)		1
Internal Storage	–	1x 128 GB SSD
System Performance — Enterprise Traffic Mix		
IPS Throughput ²		1.4 Gbps
NGFW Throughput ^{2,4}		1 Gbps
Threat Protection Throughput ^{2,5}		700 Mbps
System Performance		
Firewall Throughput (1518 / 512 / 64 byte UDP packets)		10/10/6 Gbps
Firewall Latency (64 byte UDP packets)		4 µs
Firewall Throughput (Packets Per Second)		9 Mpps
Concurrent Sessions (TCP)		700,000
New Sessions/Second (TCP)		35,000
Firewall Policies		5,000
IPsec VPN Throughput (512 byte) ¹		6.5 Gbps
Gateway-to-Gateway IPsec VPN Tunnels		200
Client-to-Gateway IPsec VPN Tunnels		500
SSL-VPN Throughput		900 Mbps
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)		200
SSL Inspection Throughput (IPS, avg. HTTPS) ³		750 Mbps
SSL Inspection CPS (IPS, avg. HTTPS) ³		400
SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³		55,000
Application Control Throughput (HTTP 64K) ²		1.8 Gbps
CAPWAP Throughput (HTTP 64K)		15 Gbps
Virtual Domains (Default / Maximum)		10 / 10
Maximum Number of FortiSwitches Supported		16
Maximum Number of FortiAPs (Total / Tunnel Mode)		30 / 10
Maximum Number of FortiTokens		500
Maximum Number of Registered FortiClients		200
High Availability Configurations		Active / Active, Active / Passive, Clustering

	FORTIGATE 60F	FORTIGATE 61F
Dimensions		
Height x Width x Length (inches)		1.5 x 8.5 x 6.3
Height x Width x Length (mm)		38 x 216 x 160
Weight	1.9 lbs (0.9 kg)	1.9 lbs (0.9 kg)
Form Factor		Desktop
Operating Environment and Certifications		
Power Required		100–240V AC, 50–60 Hz (External DC Power Adapter, 12 VDC)
Maximum Current		115V AC / 0.2A, 230V AC / 0.1A
Total Available PoE Power Budget*	N/A	N/A
Power Consumption (Average / Maximum)	17.0 W / 18.5 W	17.2 W / 18.7 W
Heat Dissipation	63.1 BTU/hr	63.8 BTU/hr
Operating Temperature		32–104°F (0–40°C)
Storage Temperature		-31–158°F (-35–70°C)
Humidity		10–90% non-condensing
Noise Level		Fanless 0 dBA
Operating Altitude		Up to 7,400 ft (2,250 m)
Compliance		FCC Part 15 Class B, C-Tick, VCCI, CE, UL/cUL, CB
Certifications		ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN

* Maximum loading on each PoE/+ port is 30 W (802.3at).

Note: All performance values are "up to" and vary depending on system configuration.

1. IPsec VPN performance test uses AES256-SHA256.

2. IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.

3. SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.

4. NGFW performance is measured with Firewall, IPS and Application Control enabled.

5. Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.

Order Information

Product	SKU	Description
FortiGate 60F	FG-60F	10x GE RJ45 ports (including 7x Internal ports, 2x WAN ports, 1x DMZ port). Maximum managed FortiAPs (Total / Tunnel) 30 / 10.
FortiGate 61F	FG-61F	10x GE RJ45 ports (including 7x Internal ports, 2x WAN ports, 1x DMZ port), 128 GB SSD onboard storage. Maximum managed FortiAPs (Total / Tunnel) 30 / 10.

Bundles



FortiGuard Bundle

FortiGuard Labs delivers a number of security intelligence services to augment the FortiGate firewall platform. You can easily optimize the protection capabilities of your FortiGate with one of these FortiGuard Bundles.

Bundles	360 Protection	Enterprise Protection	UTM	Threat Protection
FortiCare	ASE ¹	24x7	24x7	24x7
FortiGuard App Control Service	•	•	•	•
FortiGuard IPS Service	•	•	•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•
FortiGuard Web Filtering Service	•	•	•	
FortiGuard Antispam Service	•	•	•	
FortiGuard Security Rating Service	•	•		
FortiGuard Industrial Service	•	•		
FortiCASB SaaS-only Service	•	•		
FortiConverter Service	•			
SD-WAN Cloud Assisted Monitoring ²	•			
SD-WAN Overlay Controller VPN Service ²	•			
FortiAnalyzer Cloud ²	•			
FortiManager Cloud ²	•			

1. 24x7 plus Advanced Services Ticket Handling 2. Available when running FortiOS 6.2