

# FortiGate/FortiWiFi® 60E Series

FortiGate 60E, 60E-POE, FortiWiFi 60E, FortiGate 61E and FortiWiFi 61E

Secure SD-WAN  
Unified Threat Management



The FortiGate 60E 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
- Prevents and detects the 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 a 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
<b>3 Gbps</b>	<b>400 Mbps</b>	<b>250 Mbps</b>	<b>200 Mbps</b>	Multiple GE RJ45   WiFi variants   Variants with internal storage   Variants with PoE/+ interfaces

## Deployment



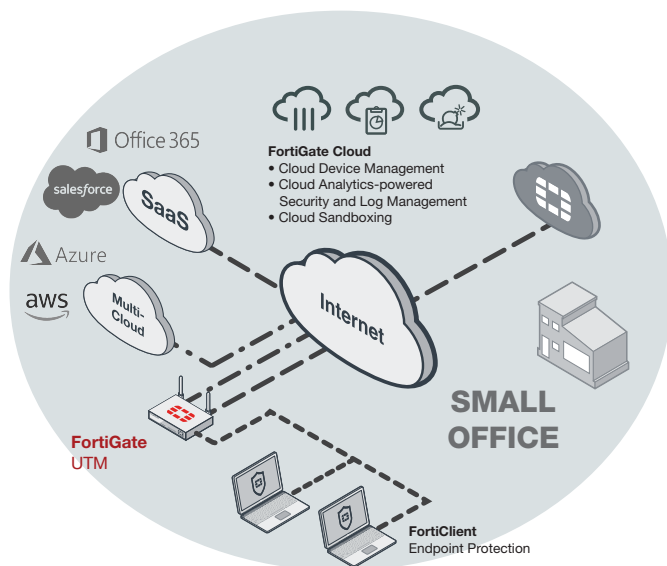
### Unified Threat Management (UTM)

- 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

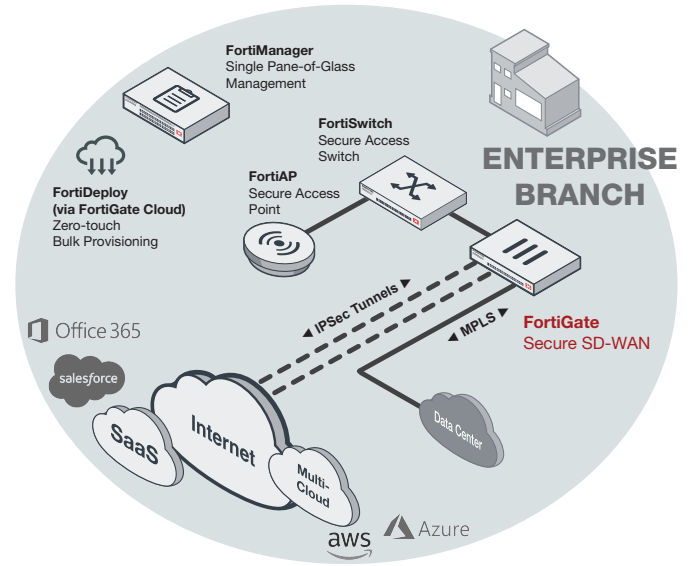


### Secure SD-WAN

- 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



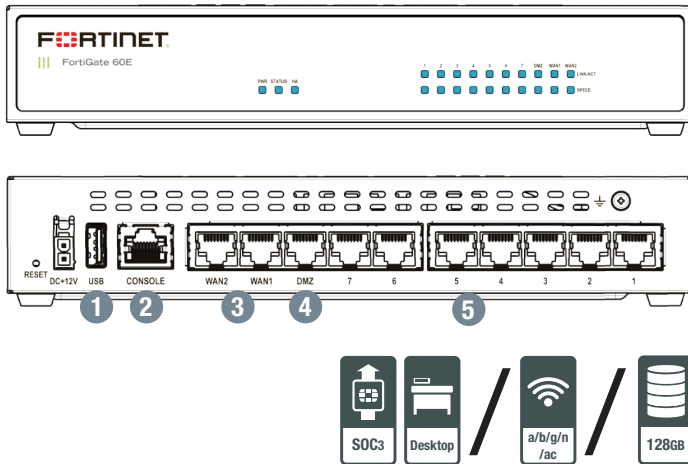
FortiWiFi 60E deployment in Small Office (UTM)



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

## Hardware

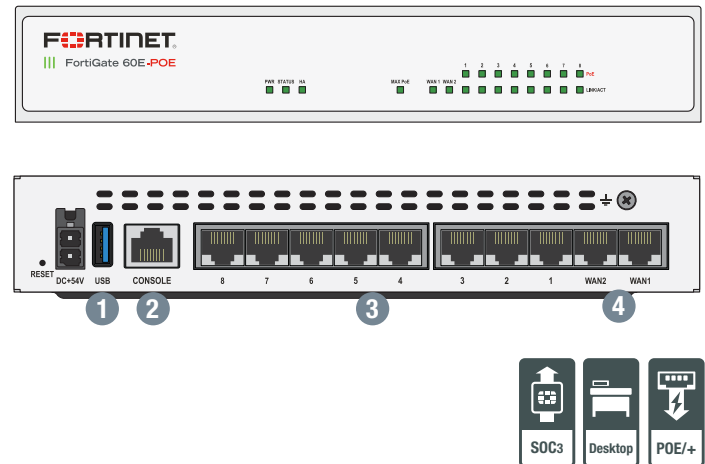
### FortiGate/FortiWiFi 60E/61E



### Interfaces

1. USB Port
2. Console Port
3. 2x GE RJ45 WAN Ports
4. 1x GE RJ45 DMZ Port
5. 7x GE RJ45 Internal Ports

### FortiGate 60E-POE



### Interfaces

1. USB Port
2. Console Port
3. 8x GE RJ45 PoE/+ Ports
4. 2x GE RJ45 WAN Ports

### Powered by SPU SoC3

- Combines a RISC-based CPU with Fortinet's proprietary SPU content and network processors for unmatched performance
- Simplifies appliance design and enables breakthrough performance for smaller networks
- Supports firewall acceleration across all packet sizes for maximum throughput
- Delivers accelerated UTM content processing for superior performance and protection
- Accelerates VPN performance for high speed, secure remote access



### 3G/4G WAN Connectivity

The FortiGate/FortiWiFi 60E 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.

### Superior Wireless Coverage

A built-in dual-band, dual-stream access point with internal antennas is integrated on the FortiWiFi 60E and provides speedy 802.11ac wireless access. The dual-band chipset addresses the PCI-DSS compliance requirement for rogue AP wireless scanning, providing maximum protection for regulated environments.

## Fortinet Security Fabric

### Security Fabric

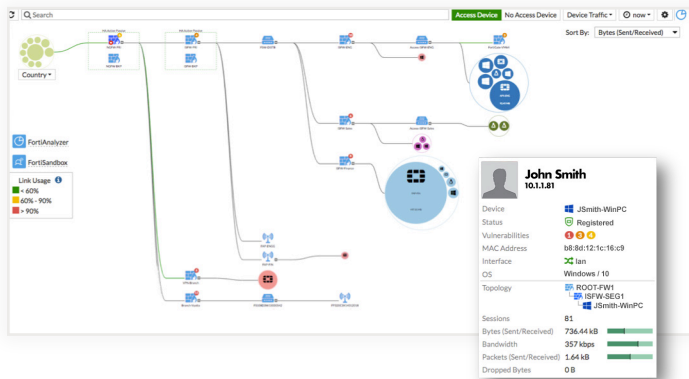
The Security Fabric delivers broad visibility, integrated AI-driven breach prevention, and automated operations, orchestration, and response across all Fortinet and its ecosystem deployments. It allows security to dynamically expand and adapt as more and more workloads and data are added. Security seamlessly 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 to deliver 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.



- A truly consolidated platform with a single OS and pane-of-glass for all security and networking services across all FortiGate platforms.
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSA validated security and performance. Ability to leverage latest technologies such as deception-based security.
- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings in addition to true TLS 1.3 support.
- Prevent, detect, and mitigate advanced attacks automatically in minutes with integrated AI-driven breach prevention and advanced threat protection.
- Improved user experience with innovative SD-WAN capabilities and ability to detect, contain and isolate threats with intent-based Segmentation
- Utilize SPU hardware acceleration to boost security capability performance.

## Services



**FortiGuard™  
Security 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.



**FortiCare™  
Support Services**

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](https://forti.net/fortiguard) and [forti.net/forticare](https://forti.net/forticare)

## Specifications

	FORTIGATE 60E	FORTIGATE 60E-POE	FORTIWIFI 60E	FORTIGATE 61E	FORTIWIFI 61E
Hardware Specifications					
GE RJ45 WAN / DMZ Ports	2 / 1	2	2 / 1	2 / 1	
GE RJ45 Internal Ports	7	—	7	7	
GE RJ45 PoE/+ Ports	—	8	—	—	
Wireless Interface	—	—	802.11 a/b/g/n/ac	—	802.11 a/b/g/n/ac
USB Ports	1	1	1	1	
Console (RJ45)	1	1	1	1	
Internal Storage	—	—	—	1x 128 GB SSD	
System Performance — Enterprise Traffic Mix					
IPS Throughput <sup>2</sup>			400 Mbps		
NGFW Throughput <sup>2,4</sup>			250 Mbps		
Threat Protection Throughput <sup>2,5</sup>			200 Mbps		
System Performance					
Firewall Throughput (1518 / 512 / 64 byte UDP packets)			3 / 3 / 3 Gbps		
Firewall Latency (64 byte UDP packets)			3 μs		
Firewall Throughput (Packets Per Second)			4.5 Mpps		
Concurrent Sessions (TCP)			1.3 Million		
New Sessions/Second (TCP)			30,000		
Firewall Policies			5,000		
IPsec VPN Throughput (512 byte) <sup>1</sup>			2 Gbps		
Gateway-to-Gateway IPsec VPN Tunnels			200		
Client-to-Gateway IPsec VPN Tunnels			500		
SSL-VPN Throughput			150 Mbps		
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)			200		
SSL Inspection Throughput (IPS, avg. HTTPS) <sup>3</sup>			135 Mbps		
SSL Inspection CPS (IPS, avg. HTTPS) <sup>3</sup>			135		
SSL Inspection Concurrent Session (IPS, avg. HTTPS) <sup>3</sup>			75,000		
Application Control Throughput (HTTP 64K) <sup>2</sup>			650 Mbps		
CAPWAP Throughput (HTTP 64K)			890 Mbps		
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			
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)	2.2 lbs (1.0 kg)	1.9 lbs (0.9 kg)	1.9 lbs (0.9 kg)	1.9 lbs (0.9 kg)
Form Factor			Desktop		

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.

## Specifications

	FORTIGATE 60E	FORTIGATE 60E-POE	FORTIWIFI 60E	FORTIGATE 61E	FORTIWIFI 61E
<b>Operating Environment and Certifications</b>					
Power Required	100–240V AC, 50–60 Hz				
Maximum Current	115V AC / 0.7 A, 230V AC / 0.48 A	0.8A	115V AC / 0.9A, 230V AC / 0.6A	115V AC / 0.9A, 230V AC / 0.6A	115V AC / 0.9A, 230V AC / 0.6A
Total Available PoE Power Budget*	N/A	75 W	N/A	N/A	N/A
Power Consumption (Average / Maximum)	11.7 / 14 W	20 / 95 W	12.6 / 15.2 W	11.9 / 14.3 W	13 / 16 W
Heat Dissipation	40 BTU/h	324 BTU/h	52 BTU/h	49 BTU/h	55 BTU/h
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).

## Order Information

Product	SKU	Description
FortiGate 60E	FG-60E	10x GE RJ45 ports (including 7x Internal ports, 2x WAN ports, 1x DMZ port). Maximum managed FortiAPs (Total / Tunnel) 30 / 10.
FortiGate 60E-POE	FG-60E-POE	10x GE RJ45 ports (including 8x PoE/PoE+ ports, 2x WAN ports) Maximum managed FortiAPs (Total / Tunnel) 30 / 10.
FortiWiFi 60E	FWF-60E	10x GE RJ45 ports (including 7x Internal ports, 2x WAN ports, 1x DMZ port), Wireless (802.11a/b/g/n/ac). Maximum managed FortiAPs (Total / Tunnel) 30 / 10.
FortiGate 61E	FG-61E	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.
FortiWiFi 61E	FWF-61E	10x GE RJ45 ports (including 7x Internal ports, 2x WAN ports, 1x DMZ port), Wireless (802.11a/b/g/n/ac), 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 <sup>1</sup>	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 <sup>2</sup>	•			
SD-WAN Overlay Controller VPN Service <sup>2</sup>	•			
FortiAnalyzer Cloud <sup>2</sup>	•			
FortiManager Cloud <sup>2</sup>	•			

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



www.fortinet.com

Copyright © 2019 Fortinet, Inc. All rights reserved. Fortinet®, FortiGate®, FortiCare® and FortiGuard®, and certain other marks are registered trademarks of Fortinet, Inc., and other Fortinet names herein may also be registered and/or common law trademarks of Fortinet. All other product or company names may be trademarks of their respective owners. Performance and other metrics contained herein were attained in internal lab tests under ideal conditions, and actual performance and other results may vary. Network variables, different network environments and other conditions may affect performance results. Nothing herein represents any binding commitment by Fortinet. Fortinet disclaims all warranties, whether express or implied, except to the extent Fortinet enters a binding written contract, signed by Fortinet's General Counsel, with a purchaser that expressly warrants that the identified product will perform according to certain expressly-identified performance metrics and, in such event, only the specific performance metrics expressly identified in such binding written contract shall be binding on Fortinet. For absolute clarity, any such warranty will be limited to performance in the same ideal conditions as in Fortinet's internal lab tests. Fortinet disclaims in full any covenants, representations, and guarantees pursuant hereto, whether express or implied. Fortinet reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable. Fortinet disclaims in full any covenants, representations, and guarantees pursuant hereto, whether express or implied. Fortinet reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable.