

FortiGate/FortiWiFi® 60E Series

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

Secure SD-WAN
Next Generation Firewall



The FortiGate/FortiWiFi 60E series provides an application-centric, scalable and secure SD-WAN solution in a compact fanless desktop form factor for enterprise branch offices and mid-sized businesses. Protects against cyber threats with system-on-a-chip acceleration and industry-leading secure SD-WAN in a simple, affordable, and easy to deploy solution. Fortinet’s Security-Driven Networking approach provides tight integration of the network to the new generation of security.

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 against known attacks using continuous threat intelligence from AI-powered FortiGuard Labs security services
- Proactively blocks unknown sophisticated attacks in real-time with the Fortinet Security Fabric integrated AI-powered FortiSandbox

Performance

- Engineered for Innovation using Fortinet’s purpose-built security processors (SPU) to deliver the industry’s best threat protection performance and ultra-low latency
- Provides industry-leading performance and protection for SSL encrypted traffic including the first firewall vendor to provide TLS 1.3 deep inspection

Certification

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

Networking

- Dynamic Path Selection over any WAN transport to provide better application experience based on self-healing SD-WAN capabilities
- Advanced routing, Scalable VPN, multi-cast and IPV4/IPV6 forwarding powered by purpose-built network processors

Management

- SD-WAN Orchestration provides intuitive and simplified workflow for centralized management and provisioning of business policies in a few easy clicks
- Expedited deployment with Zero touch provisioning well-suited for large and distributed infrastructure
- Automated VPN tunnels for flexible hub-to-spoke and full-mesh deployment at scale to provide bandwidth aggregation and encrypted WAN paths
- Predefined compliance checklists analyze the deployment and highlight best practices to improve the 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
3 Gbps	400 Mbps	250 Mbps	200 Mbps	Multiple GE RJ45 WiFi variants Variants with internal storage Variants with PoE/+ interfaces

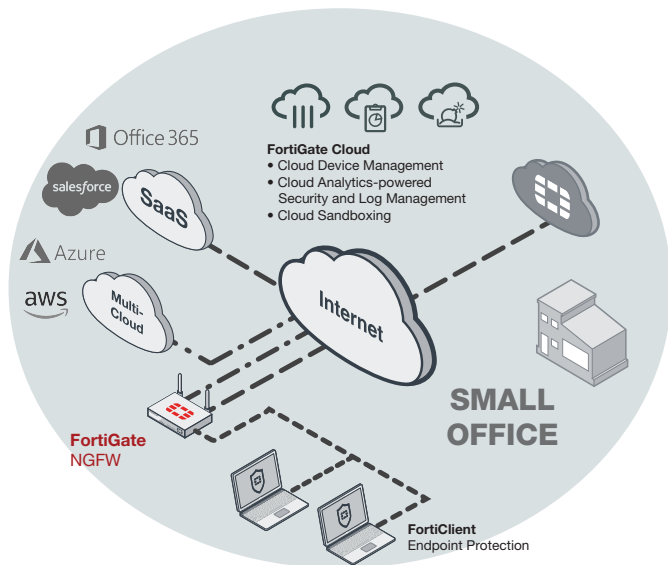
Deployment

Next Generation Firewall (NGFW)

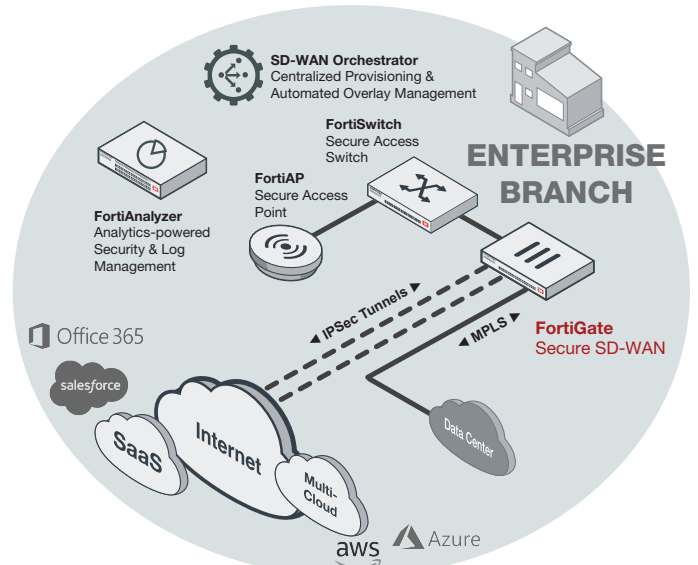
- Reduce the complexity and maximize your ROI by integrating threat protection security capabilities into a single high-performance network security appliance, powered by Fortinet's Security Processing Unit (SPU)
- Full visibility into users, devices, applications across the entire attack surface and consistent security policy enforcement irrespective of asset location
- Protect against network exploitable vulnerabilities with industry-validated IPS that offers low latency and optimized network performance
- Automatically block threats on decrypted traffic using the Industry's highest SSL inspection performance, including the latest TLS 1.3 standard with mandated ciphers
- Proactively block newly discovered sophisticated attacks in real-time with AI-powered FortiGuard Labs and advanced threat protection services included in the Fortinet Security Fabric

Secure SD-WAN

- Consistent business application performance with accurate detection, dynamic WAN path steering on any best-performing WAN transport
- Accelerated Multi-cloud access for faster SaaS adoption with cloud-on-ramp
- Self-healing networks with WAN edge high availability, sub-second traffic switchover-based and real-time bandwidth compute-based traffic steering
- Automated Overlay tunnels provides encryption and abstracts physical hybrid WAN making it simple to manage.
- Simplified and intuitive workflow with SD-WAN Orchestrator for management and zero touch deployment
- Enhanced analytics both real-time and historical provides visibility into network performance and identify anomalies
- Strong security posture with next generation firewall and real-time threat protection



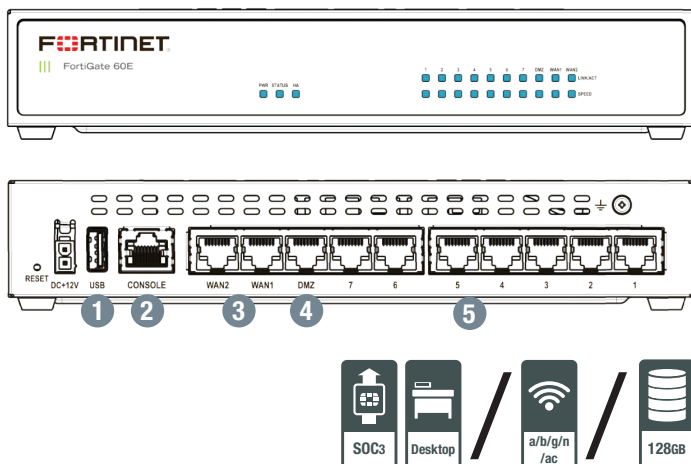
FortiWiFi 60E deployment in Small Office (NGFW)



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

Hardware

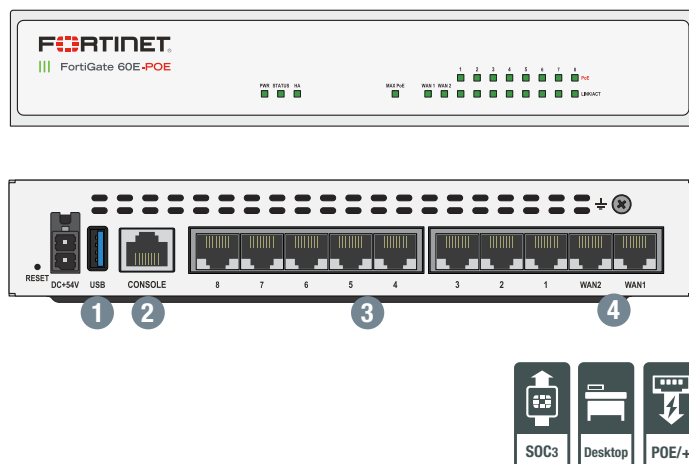
FortiGate/FortiWiFi 60E/61E



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 and 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 is the cybersecurity platform that enables digital innovations. It delivers broad visibility of the entire attack surface to better manage risk. Its unified and integrated solution reduces the complexity of supporting multiple-point products, while automated workflows increase operational speeds and reduce response times across the Fortinet deployment ecosystem. The Fortinet Security Fabric covers the following key areas under a single management center:

- **Security-Driven Networking** that secures, accelerates, and unifies the network and user experience
- **Zero Trust Network Access** that identifies and secures users and devices in real-time, on and off of the network
- **Dynamic Cloud Security** that protects and controls cloud infrastructures and applications
- **AI-Driven Security Operations** that automatically prevents, detects, isolates, and responds to cyber threats

FortiOS

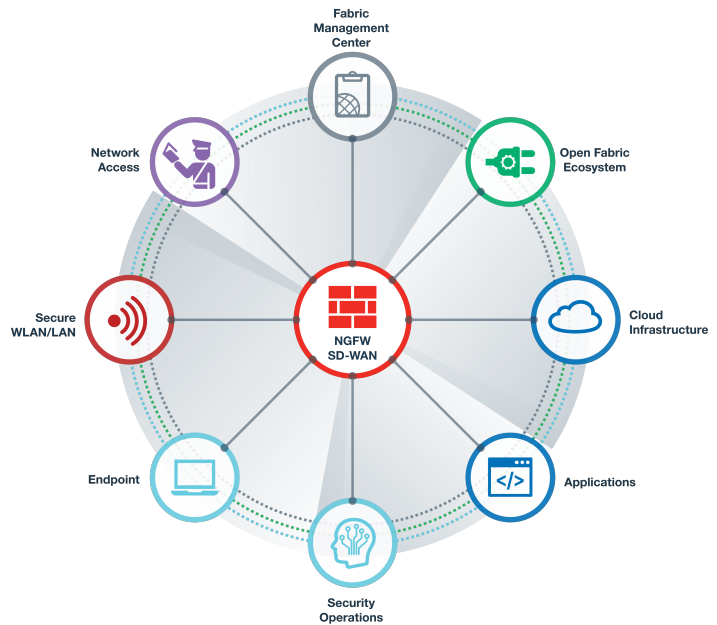
FortiGates are the foundation of the Fortinet Security Fabric—the core is FortiOS. All security and networking capabilities across the entire FortiGate platform are controlled with one intuitive operating system. FortiOS reduces complexity, costs, and response times by truly consolidating next-generation security products and services into one platform.

- A truly consolidated platform with a single OS and pane-of-glass for across the entire digital attack surface.
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSA validated security and performance.
- Leverage the latest technologies such as deception-based security.

Services




FortiGuard Labs offer 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.



- 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.
- Automatically prevent, detect, and mitigate advanced attacks within minutes with an integrated AI-driven security and advanced threat protection.
- Improve and unify the user experience with innovative SD-WAN capabilities with the ability to detect, contain, and isolate threats with automated segmentation.
- Utilize SPU hardware acceleration to boost network security performance.



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 60E	FORTIGATE 60E-POE	FORTIWIIFI 60E	FORTIGATE 61E	FORTIWIIFI 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	–	–	Single Radio (2.4GHz/5GHz), 802.11 a/b/g/n/ac	–	Single Radio (2.4GHz/5GHz), 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 ²			400 Mbps		
NGFW Throughput ^{2,4}			250 Mbps		
Threat Protection Throughput ^{2,5}			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) ¹			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) ³			135 Mbps		
SSL Inspection CPS (IPS, avg. HTTPS) ³			135		
SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³			75,000		
Application Control Throughput (HTTP 64K) ²			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		
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		
Radio Specifications					
Multiple User (MU) MIMO	–	–	2x2	–	2x2
Maximum Wi-Fi Speeds	–	–	876 Mbps @ 5GHz, 300 Mbps @ 2.4GHz	–	876 Mbps @ 5GHz, 300 Mbps @ 2.4GHz
Maximum Tx Power	–	–	21 dBm	–	21 dBm
Antenna Gain	–	–	6 dBi @ 5 GHz, 3 dBi @ 2.4 GHz	–	6 dBi @ 5 GHz, 3 dBi @ 2.4 GHz

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
Operating Environment and Certifications					
Input Rating	12Vdc, 3A	12Vdc, 7A	12Vdc, 3A	12Vdc, 3A	12Vdc, 3A
Power Required	Powered by External DC Power Adapter, 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*	–	75 W	–	–	–
Power Consumption (Average / Maximum)	11.5 / 14 W	20 / 95 W	12.6 / 15.2 W	11.9 / 14.3 W	13 / 16 W
Heat Dissipation	48 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, ICES, CE, RCM, VCCI, BSMI, 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)
FortiGate 60E-POE	FG-60E-POE	10x GE RJ45 ports (including 8x PoE/PoE+ ports, 2x WAN ports)
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)
FortiGate 61E	FG-61E	10x GE RJ45 ports (including 7x Internal ports, 2x WAN ports, 1x DMZ port), 128 GB SSD onboard storage
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

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	Unified Threat Protection	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	•	•		
FortiGuard IoT Detection Service ²	•	•		
FortiConverter Service	•	•		
IPAM Cloud ²	•			
SD-WAN Orchestrator Entitlement ²	•			
SD-WAN Cloud Assisted Monitoring	•			
SD-WAN Overlay Controller VPN Service	•			
FortiAnalyzer Cloud	•			
FortiManager Cloud	•			

1. 24x7 plus Advanced Services Ticket Handling 2. Available when running FortiOS 6.4



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