



**FortiGate/FortiWiFi® 50E Series**  
 Unified Threat Management  
 Distributed Enterprise Firewall



## FortiGate/FortiWiFi 50E Series

FortiGate/FortiWiFi 50E, FortiGate/FortiWiFi 51E and FortiGate 52E

### The Fortinet Enterprise Firewall Solution

The Fortinet Enterprise Firewall Solution delivers end-to-end network security with one platform, one network security operating system and unified policy management with a single pane of glass — for the industry’s best protection against the most advanced security threats and targeted attacks.

### One Enterprise Firewall Solution across the Extended Enterprise

The FortiGate family of network appliances represents the industry’s broadest range of enterprise firewall platforms. FortiGate is based on FortiASIC, a purpose-built integrated architecture that provides extremely high throughput and exceptionally low latency, while delivering industry-leading security effectiveness and consolidation which is routinely validated by independent real-world tests. Targeted for SMB and distributed enterprises, the FortiGate 50E series contains consolidated security and networking functionality, various connectivity options along with Industry’s best performance in a compact form factor.

### Highlights

	Firewall	IPS	NGFW	Threat Protection	Interfaces
	Enterprise Traffic Mix				
FG/FWF-50E	2.5 Gbps	270 Mbps	220 Mbps	160 Mbps	Multiple GE RJ45

Validated Security

One Network OS

Performance

Single Pane of Glass

Universal Platform Support



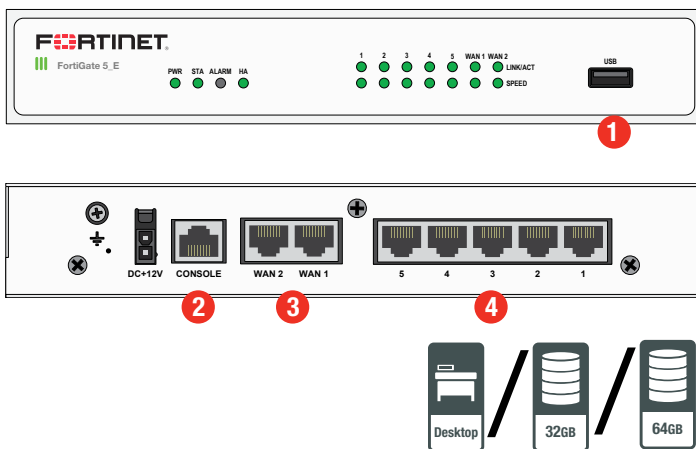
FortiGate appliances, interconnected with the Fortinet Security Fabric, form the backbone of the Fortinet Enterprise Solution

[forti.net/sf](https://forti.net/sf)



## HARDWARE

### FortiGate 50/51/52E



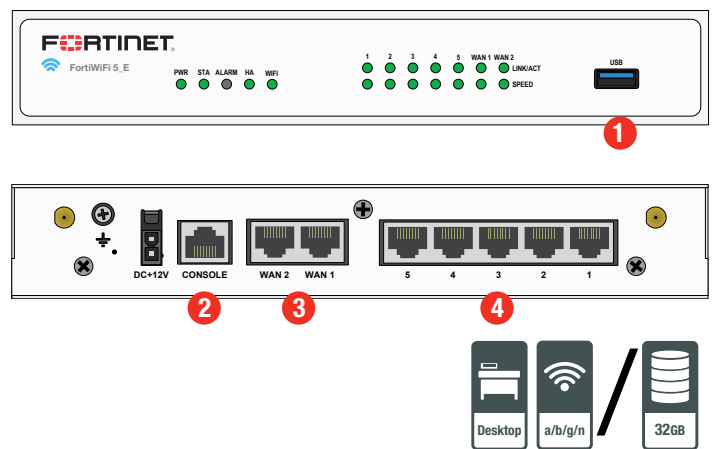
### Interfaces

1. USB Port
2. Console RJ45
3. 2x GE RJ45 WAN Ports
4. 5x GE RJ45 Switch Ports

### Install in Minutes with FortiExplorer

The FortiExplorer wizard enables easy setup and configuration coupled with easy-to-follow instructions. FortiExplorer runs on popular mobile devices like Android and iOS. Using FortiExplorer is as simple as starting the application and connecting to the appropriate USB port on the FortiGate. By using FortiExplorer, you can be up and running and protected in minutes.

### FortiWiFi 50/51E



### Interfaces

1. USB Port
2. Console RJ45
3. 2x GE RJ45 WAN Ports
4. 5x GE RJ45 Switch Ports

### Wireless and 3G/4G WAN Extensions

The FortiGate supports external 3G/4G modems that allow additional or redundant WAN connectivity for maximum reliability. The FortiGate can also operate as a wireless access point controller to further extend wireless capabilities.

### Compact and Reliable Form Factor

Designed for small environments, you can simply place the FortiGate/FortiWiFi 50E series on a desktop. It is small, lightweight yet highly reliable with superior MTBF (Mean Time Between Failure), minimizing the chance of a network disruption.

## SOFTWARE

### FortiOS

Control all the security and networking capabilities across the entire FortiGate platform with one intuitive operating system. Reduce operating expenses and save time with a truly consolidated next generation security platform.



- A truly consolidated platform with one OS for all security and networking services for all FortiGate platforms.
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives and ICISA validated security and performance.
- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings.
- Detect, contain and block advanced attacks automatically in minutes with integrated advanced threat protection framework.
- Solve your networking needs with extensive routing, switching, WiFi, LAN and WAN capabilities.
- Activate all the ASIC-booster capabilities you need on the fastest firewall platform available.



For more information, please refer to the FortiOS data sheet available at [www.fortinet.com](http://www.fortinet.com)

## 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, other network and security vendors, as well as law enforcement agencies:

- **Real-time Updates** — 24x7x365 Global Operations research security intelligence, distributed via Fortinet Distributed Network to all Fortinet platforms.
- **Security Research** — FortiGuard Labs have discovered over 170 unique zero-day vulnerabilities to date, totaling millions of automated signature updates monthly.
- **Validated Security Intelligence** — Based on FortiGuard intelligence, Fortinet's network security platform is tested and validated by the world's leading third-party testing labs and customers globally.

### 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:

- **Enhanced Support** — For customers who need support during local business hours only.
- **Comprehensive Support** — For customers who need around-the-clock mission critical support, including advanced exchange hardware replacement.
- **Advanced Services** — For global or regional customers who need an assigned Technical Account Manager, enhanced service level agreements, extended software support, priority escalation, on-site visits and more.
- **Professional Services** — For customers with more complex security implementations that require architecture and design services, implementation and deployment services, operational services and more.



#### Enterprise 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 the FortiGuard Enterprise Bundle. This bundle contains the full set of FortiGuard security services plus FortiCare service and support offering the most flexibility and broadest range of protection all in one package.

## SPECIFICATIONS

	FG-50E	FWF-50E	FG-51E	FWF-51E	FG-52E
<b>Hardware Specifications</b>					
GE RJ45 Switch Ports			5		
GE RJ45 WAN Ports			2		
USB Ports			1		
Console (RJ45)			1		
Wireless Interface	—	802.11 a/b/g/n	—	802.11 a/b/g/n	—
Internal Storage	—	—	32 GB	32 GB	2x 32 GB
<b>System Performance</b>					
Firewall Throughput			2.5 Gbps		
Firewall Latency (64 byte UDP packets)			180 µs		
Firewall Throughput (Packets Per Second)			375 Kpps		
Concurrent Sessions (TCP)			1.8 Million		
New Sessions/Second (TCP)			21,000		
Firewall Policies			5,000		
IPsec VPN Throughput (512 byte packets)			200 Mbps		
Gateway-to-Gateway IPsec VPN Tunnels			200		
Client-to-Gateway IPsec VPN Tunnels			250		
SSL-VPN Throughput			100 Mbps		
Concurrent SSL-VPN Users (Recommended Maximum)			80		
IPS Throughput (HTTP / Enterprise Mix) <sup>1</sup>			800 / 270 Mbps		
SSL Inspection Throughput <sup>2</sup>			250 Mbps		
Application Control Throughput <sup>3</sup>			350 Mbps		
NGFW Throughput <sup>4</sup>			220 Mbps		
Threat Protection Throughput <sup>5</sup>			160 Mbps		
CAPWAP Throughput <sup>6</sup>			1.9 Gbps		
Virtual Domains (Default / Maximum)			5 / 5		
Maximum Number of FortiAPs (Total / Tunnel Mode)			10 / 5		
Maximum Number of FortiTokens			100		
Maximum Number of Registered FortiClients			200		
High Availability Configurations			Active/Active, Active/Passive, Clustering		
<b>Dimensions</b>					
Height x Width x Length (inches)			1.44 x 5.5 x 8.52		
Height x Width x Length (mm)			36.5 x 140 x 216		
Weight	2.015 lbs (0.914 kg)	2.041 lbs (0.926 kg)	2.04 lbs (0.925 kg)	2.04 lbs (0.925 kg)	2.04 lbs (0.925 kg)
Form Factor			Desktop		
<b>Environment</b>					
Power Required			100–240V AC, 60–50 Hz (External DC Power Adapter)		
Maximum Current			100 V / 0.6 A, 240 V / 0.4 A		110 V / 0.32 A, 220 V / 0.57 A
Power Consumption (Average / Maximum)	15 / 18 W	18 / 22 W	16 / 20 W	19 / 23 W	22.5 / 27 W
Heat Dissipation	62 BTU/h	75 BTU/h	67 BTU/h	79 BTU/h	92 BTU/h
Operating Temperature			32–104°F (0–40°C)		
Storage Temperature			-31–158°F (-35–70°C)		
Humidity			20–90% non-condensing		
Operating Altitude			Up to 7,400 ft (2,250 m)		
<b>Compliance</b>					
Regulatory Compliance			FCC Part 15 Class B, C-Tick, VCCI, CE, UL/cUL, CB		
<b>Certifications</b>					
			ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN		

Note: All performance values are "up to" and vary depending on system configuration. IPsec VPN performance is based on 512 byte UDP packets using AES-256+SHA1. 1. IPS performance is measured using 1 Mbyte HTTP and Enterprise Traffic Mix.

2. SSL Inspection is measured with IPS enabled and HTTP traffic, using TLS v1.2 with AES256-SHA. 3. Application Control performance is measured with 64 Kbytes HTTP traffic. 4. NGFW performance is measured with IPS and Application Control enabled, based on Enterprise Traffic Mix. 5. Threat Protection performance is measured with IPS and Application Control and Malware protection enabled, based on Enterprise Traffic Mix. 6. CAPWAP performance is based on 1444 byte UDP packets.

## ORDER INFORMATION

Product	SKU	Description
FortiGate 50E	FG-50E	7x GE RJ45 ports (including 2x WAN ports, 5x Switch ports), maximum managed FortiAPs (Total / Tunnel) 10 / 5.
FortiWiFi 50E	FWF-50E	7x GE RJ45 ports (including 2x WAN ports, 5x Switch ports), Wireless (802.11a/b/g/n), maximum managed FortiAPs (Total / Tunnel) 10 / 5.
FortiGate 51E	FG-51E	7x GE RJ45 ports (including 2x WAN ports, 5x Switch ports), 32 GB SSD onboard storage, maximum managed FortiAPs (Total / Tunnel) 10 / 5.
FortiWiFi 51E	FWF-51E	7x GE RJ45 ports (including 2x WAN ports, 5x Switch ports), Wireless (802.11a/b/g/n), 32 GB SSD onboard storage, maximum managed FortiAPs (Total / Tunnel) 10 / 5.
FortiGate 52E	FG-52E	7x GE RJ45 ports (including 2x WAN ports, 5x Switch ports), 2x 32 GB SSD onboard storage, maximum managed FortiAPs (Total / Tunnel) 10 / 5.
Optional Accessory		
Rack Mount Tray	SP-RACKTRAY-01	Rack mount tray for FG-30D, FG-40C, FG-50/51E, FG-60C, FG-60D/-POE, FG-70D, FG-80D, FG-90D/-POE, FAD-100E, FRC-100D, FWB-100D, FML-60D, FVE-100E.



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