

DATA SHEET

FortiGate/FortiWiFi® 50E Series

FortiGate 50E, FortiWiFi 50E/-2R, FortiGate/FortiWiFi 51E, and FortiGate 52E

Next Generation Firewall Secure SD-WAN



The FortiGate/FortiWiFi 50E series provides a fast 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 securely integrates with the new generation of cybersecurity solutions.

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 Al-powered FortiGuard Labs security services
- Proactively blocks unknown sophisticated attacks in realtime with the Fortinet Security Fabric integrated Al-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, ICSA, Virus Bulletin, and AV Comparatives

Networking

- Application aware routing with in-built SD-WAN capabilities to achieve consistent application performance and the best user experience
- Built-in advanced routing capabilities to deliver high performance with encrypted IPSEC tunnels at scale

Management

- Includes a management console that is effective and simple to use, which provides a comprehensive network of automation & visibility
- Provides Zero Touch Provisioning leveraging Single Pane of Glass Management powered by the Fabric Management Center
- 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
2.5 Gbps	350 Mbps	220 Mbps	160 Mbps	Multiple GE RJ45 WiFi variants Variants with dual radios Variants with internal storage

Deployment



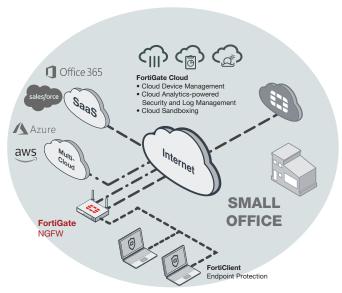
Next Generation Firewall (NGFW)

- Reduce the complexity and maximize your ROI by integrating threat protection security capabilities into a single highperformance 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 Industryvalidated IPS security effectiveness, 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 Al-powered FortiGuard Labs and advanced threat protection services included in the Fortinet Security Fabric

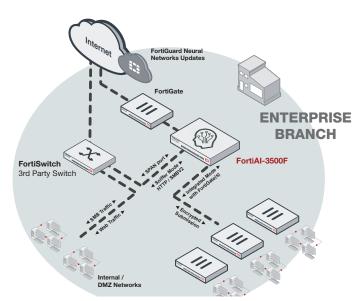


Secure SD-WAN

- Consistent business application performance with accurate detection, dynamic WAN path steering and optimization
- Multi-cloud access for faster SaaS adoption with end-toend optimization
- Simplification with zero touch deployment and centralized management with auto-provisioning, analytics and reporting
- Strong security posture with next generation firewall and realtime threat protection



FortiWiFi 50E deployment in Small Office (NGFW)

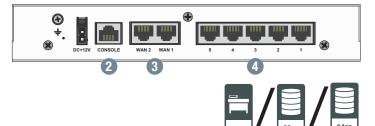


FortiGate 50E deployment in Enterprise Branch (Secure SD-WAN)

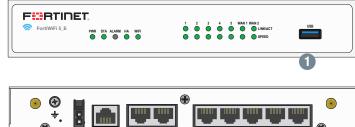
Hardware

FortiGate 50/51/52E





FortiWiFi 50E/-2R and 51E





Interfaces

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

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 iOS devices. 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.

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.

Superior Wireless Coverage

A built-in dual-band, dual-stream access point on the FortiWiFi 50E-2R provides speedy 802.11ac coverage on 2.4 GHz or 5 GHz bands. The dual-band chipset addresses the PCI-DSS compliance requirement for rogue AP wireless scanning.



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 overs 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
- Al-Driven Security Operations that automatically prevents, detects, isolates, and responds to cyber threat

Network Access Network Access Open Fabric Ecosystem Cloud Infrastructure SO-WAN Security Operations

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.

- 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 Al-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.

Services



FortiGuard[™] 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.



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 and forti.net/forticare



Specifications

Ref Ruf S (FG-50E	FWF-50E	FWF-50E-2R	FG-51E	FWF-51E	FG-52E				
1987 Proto	Hardware Specifications										
Manual Console (CMS)	GE RJ45 Switch Ports	5									
Mireland 1908 1908 1909 19	GE RJ45 WAN Ports	2									
Maries Interface	USB Ports	1									
Marian Storage	Console (RJ45)		1								
PS Troughput 2	Wireless Interface	_	802.11 a/b/g/n		_	802.11 a/b/g/n	_				
RSFN Throughput 3	Internal Storage	_	_	<u> </u>	1x 32 GB SSD	1x 32 GB SSD	2x 32 GB SSD				
NFM Troughput \$ 160 Mps	System Performance — Enterprise Traffic Mix										
System Profundacy Frewall Throughput (Packets) 3.5 Clays Frewall Latency (46 byte UDP) packets) 3.5 Clays Frewall Latency (46 byte UDP) packets) 3.5 Clays Frewall Latency (46 byte UDP) packets) 3.5 Clays Frewall Throughput (Packets Per Second) 3.5 Clays Concurrent Sessions (TCP) 3.5 Clays Frewall Policies 5.00 Clays Frewall Policies 5.00 Clays Frewall Policies 5.00 Clays Getway-10-Cateway Pisse VPN Turnels 2.00 Clays Selevine-10-Cateway Pisse VPN Turnels 2.00 Clays Sill Inspection Throughput (Pis Ray, HTTRS) ³ 1.00 Migus Sill Inspection Throughput (Pis Ray, HTTRS) ³ 1.00 Migus Sill Inspection Throughput (Pis Ray, HTTRS) ³ 1.00 Migus Sill Inspection Throughput (Pis Ray, HTTRS) ³ 1.00 Migus Sill Inspection Throughput (Pir Ray) 1.00 Migus Sill Inspection Throughput (Pir Ray) 1.00 Migus Sill Inspection Throughput (Pir Ray) 1.00	IPS Throughput ²			350 N	Mbps						
Prevail Throughput	NGFW Throughput ^{2,4}			220 N	/lbps						
Frewall Throughput (64 byte UIDP packets) 180 µs Firewall Latency (64 byte UIDP packets) 180 µs Chorument Sessions (7CP) 18 Million New Sessions/Second (TCP) 18 Million Firewall Ploticies 5,000 Uses Peec VPN Throughput (512 byte) ¹ 30 Mbgs Cleart-to-Gateway UPsec VPN Tunnels 250 Cleart-to-Gateway UPsec VPN Tunnels 250 SSL VPN Throughput (512 byte) ¹ 250 SSL System (1986 way UPsec VPN Tunnels) 250 SSL System (1986 way HTTPS) ² 150 Mps SSL Inspection Croscurrent Session (PS, avg. HTTPS) ² 150 Mps SSL Inspection Concurrent Session (PS, avg. HTTPS) ² 150 Mps SSL Inspection Concurrent Session (PS, avg. HTTPS) ² 150 Mps SSL Inspection Concurrent Session (PS, avg. HTTPS) ² 150 Mps SSL Inspection Concurrent Session (PS, avg. HTTPS) ² 150 Mps SSL Inspection Concurrent Session (PS, avg. HTTPS) ² 150 Mps Wittlad Domains (Default / Maximum) 5 / 5 Maxim	Threat Protection Throughput ^{2,5}			160 N	Mbps						
Frewall Latency (64 byte UDP packets)	System Performance										
Prewail Throughput (Packets Per Sacond)				2.5 G	libps						
Concurrent Sessions (TCP) 1.8 Million New Sessions/Second (TCP) 21,000 Frewall Poticies 5,000 Pises VPN Throughput (512 byte)¹ 90 Mbps Gateway-to-Gateway IPsec VPN Tunnels 200 Cilent-1o-Gateway IPsec VPN Tunnels 250 SSL-YPN Throughput 100 Mbps Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode) 200 SSL Inspection Throughput (IFT)s³ 150 Mbps SSL Inspection CPS (IPS, avg. HTTPS)³ 150 Mbps SSL Inspection Concurrent Session (IPS, avg. HTTPS)³ 75,000 SSL Inspection Concurrent Session (IPS, avg. HTTPS)³ 75,000 Application Control Throughput (IHTTP 64K)² 450 Mbps CAPWAPA Throughput (IHTTP 64K)² 12 Gbps Virtual Domains (Default / Maximum) 5/5 Maximum Number of FortiSwitches Supported 8 Maximum Number of FortiSwitches Supported 500 Hight x Width x Length (inches) 1.44 x 8.5 x 5	Firewall Latency (64 byte UDP packets)	180 µs									
New Sessions/Second (TCP) 21,000 Firewall Policies 5,000 Pise VPN Throughput (512 byte)¹ 90 Mbps Cateway-10-Gateway Pise VPN Tunnels 200 SEJ-YPN Throughput 100 Mbps SSL-YPN Throughput 200 SSL-YPN Throughput (PS avy HTTPS)³ 200 SSL Inspection Throughput (PS, avy, HTTPS)³ 150 Mbps SSL Inspection Concurrent Session (PS, avy, HTTPS)³ 140 SSL Inspection Concurrent Session (PS, avy, HTTPS)³ 75,000 SSL Inspection Control Throughput (HTTP 64K)² 450 Mbps CAPWAP Throughput (HTTP 64K)² 12 Clops Virtual Domainis (Default / Maximum) 57.5 Maximum Number of FortiSwitches Supported 8 Maximum Number of FortiSwitches Supported 10.5 Hight x Width x Length (Inches) 1.44 x 8.5 x 5. Hight x Width x Len		375 Kpps									
Frewall Policies	Concurrent Sessions (TCP)	1.8 Million									
Pisec VPN Throughput (512 byte) 1 90 Mips	New Sessions/Second (TCP)	21,000									
Cateway IPsec VPN Tunnels 200 250	Firewall Policies			5,00	00						
Client-to-Gateway Psec VPN Tunnels	IPsec VPN Throughput (512 byte) 1			90 M	lbps						
SSL-VPN Users (Recommended Maximum, Tunnel Mode) 200	Gateway-to-Gateway IPsec VPN Tunnels			20	0						
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode) 200 SSL Inspection Throughput (IPS, avg. HTTPS)³ 150 Mbps SSL Inspection CPS (IPS, avg. HTTPS)³ 140 SSL Inspection Concurrent Session (IPS, avg. HTTPS)³ 75,000 Application Control Throughput (HTTP 64K)² 450 Mbps CAPWAP Throughput (HTTP 64K) 1.2 Gbps Virtual Domains (Default / Maximum) 5 / 5 Maximum Number of FortiSwitches Supported 8 Maximum Number of FortiAPs (Total / Tunnel Mode) 10 / 5 Maximum Number of FortiTokens 500 High Availability Configurations Active/Active, Active/Passive, Clustering Dimensions 1.44 x 8.52 x 5.5 Height x Width x Length (inches) 1.44 x 8.52 x 5.5 Height x Width x Length (inches) 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs	Client-to-Gateway IPsec VPN Tunnels			25	0						
SSL Inspection Throughput (IPS, avg. HTTPS)³ 150 Mbps SSL Inspection Concurrent Session (IPS, avg. HTTPS)³ 140 SSL Inspection Concurrent Session (IPS, avg. HTTPS)³ 75,000 Application Control Throughput (HTTP 64K)² 450 Mbps CAPWAP Throughput (HTTP 64K) 1.2 Gbps Virtual Domains (Default / Maximum) 5/5 Maximum Number of FortiSwitches Supported 8 Maximum Number of FortiAPs (Total / Tunnel Mode) 10/5 Maximum Number of FortiTokens 500 Height x Width x Length (inches) 1.44 x 8.52 x 5. Height x Width x Length (inches) 1.44 x 8.52 x 5. Height x Width x Length (inches) 1.44 x 8.52 x 5. Height x Width x Length (inches) 1.44 x 8.52 x 5. Height x Width x Length (inches) 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs <th <="" colspan="4" td=""><td>SSL-VPN Throughput</td><td></td><td></td><td>100 N</td><td>/lbps</td><td></td><td></td></th>	<td>SSL-VPN Throughput</td> <td></td> <td></td> <td>100 N</td> <td>/lbps</td> <td></td> <td></td>				SSL-VPN Throughput			100 N	/lbps		
SSL Inspection CPS (IPS, avg. HTTPS) 3 75,000 SSL Inspection Concurrent Session (IPS, avg. HTTPS) 3 75,000 Application Control Throughput (HTTP 64K) 2 450 Mbps CAPWAP Throughput (HTTP 64K) 1.2 Gbps Virtual Domains (Default / Maximum) 5 / 5 Maximum Number of FortiSwitches Supported 8 Maximum Number of FortiAPs (Total / Tunnel Mode) 10 / 5 Maximum Number of FortiTokens 500 High Availability Configurations Active/Active, Active/Passive, Clustering Dimensions Height x Width x Length (inches) 1.44 x 8.52 x 5.5 Height x Width x Length (mm) 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs 2.04 lbs Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs 2.04 lbs 2.04 lbs Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs 2.04 lbs Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs 2.04 lbs Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs Weight 2.015 lbs 2.041 lbs 2.04 lbs 2.04 lbs 2.04 lbs Weight 2.015 lbs 2.041 lbs 2.04 lbs 2.04 lbs 2.04 lbs Weight 2.015 lbs 2.041 lbs 2.041 lbs 2.04 lbs 2.04 lbs Weight 2.015 lbs 2.041 lbs 2.041 lbs 2.041 lbs 2.041 lbs Weight 2.015 lbs 2.015 lbs 2.041 lbs 2.041 lbs 2.041 lbs Weight 2.015 lbs 2.041 lbs 2.041 lbs 2.041 lbs 2.041 lbs 2.041 lbs Weight 2.015 lbs 2.041 lbs 2.	Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)			20	0						
SSL Inspection Concurrent Session (IPS, avg. HTTPS)³	SSL Inspection Throughput (IPS, avg. HTTPS) 3			150 N	/lbps						
Application Control Throughput (HTTP 64K) 2 450 Mbps CAPWAP Throughput (HTTP 64K) 1.2 Gbps Virtual Domains (Default / Maximum) 5/5 Maximum Number of FortiSwitches Supported 8 Maximum Number of FortiAPs (Total / Tunnel Mode) 10/5 Maximum Number of FortiTokens 500 High Availability Configurations Active/Active, Active/Passive, Clustering Dimensions 1.44 x 8.52 x 5.5 Height x Width x Length (inches) 1.44 x 8.52 x 5.5 Height x Width x Length (mm) 36.5 x 216 x 140 Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.05 kg) (0.925	SSL Inspection CPS (IPS, avg. HTTPS) ³			14	0						
Application Control Throughput (HTTP 64K) 2 450 Mbps CAPWAP Throughput (HTTP 64K) 1.2 Gbps Virtual Domains (Default / Maximum) 5/5 Maximum Number of FortiSwitches Supported 8 Maximum Number of FortiAPs (Total / Tunnel Mode) 10/5 Maximum Number of FortiTokens 500 High Availability Configurations Active/Active, Active/Passive, Clustering Dimensions 1.44 x 8.52 x 5.5 Height x Width x Length (inches) 1.44 x 8.52 x 5.5 Height x Width x Length (mm) 36.5 x 216 x 140 Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.05 kg) (0.925	SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³										
Virtual Domains (Default / Maximum) 5/5 Maximum Number of FortiSwitches Supported 8 Maximum Number of FortiAps (Total / Tunnel Mode) 10/5 Maximum Number of FortiTokens 500 High Availability Configurations Active/Active, Active/Passive, Clustering Dimensions 1.44 x 8.52 x 5.5 Height x Width x Length (inches) 1.44 x 8.52 x 5.5 Height x Width x Length (mm) 36.5 x 216 x 140 Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs Weight (0.914 kg) (0.926 kg) (1.08 kg) (0.925 kg) (0.925 kg) (0.925 kg)	Application Control Throughput (HTTP 64K) ²										
Maximum Number of FortiSwitches Supported 8 Maximum Number of FortiAPs (Total / Tunnel Mode) 10 / 5 Maximum Number of FortiTokens 500 High Availability Configurations Active/Active, Active/Passive, Clustering Dimensions Height x Width x Length (inches) 1.44 x 8.52 x 5.5 Height x Width x Length (mm) 36.5 x 216 x 140 Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs Weight (0.914 kg) (0.926 kg) (1.08 kg) (0.925 kg) (0.925 kg) (0.925 kg)	CAPWAP Throughput (HTTP 64K)										
Maximum Number of FortiSwitches Supported 8 Maximum Number of FortiAPs (Total / Tunnel Mode) 10 / 5 Maximum Number of FortiTokens 500 High Availability Configurations Active/Active, Active/Passive, Clustering Dimensions Height x Width x Length (inches) 1.44 x 8.52 x 5.5 Height x Width x Length (mm) 36.5 x 216 x 140 Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs Weight (0.914 kg) (0.926 kg) (1.08 kg) (0.925 kg) (0.925 kg) (0.925 kg)	Virtual Domains (Default / Maximum)										
Maximum Number of FortiTokens 500 High Availability Configurations Active/Active, Active/Passive, Clustering Dimensions *** Use of the State of S		8									
High Availability Configurations Active/Active, Active/Passive, Clustering Dimensions 1.44 x 8.52 x 5.5 Height x Width x Length (inches) 36.5 x 216 x 140 Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs (0.914 kg) (0.926 kg) (1.08 kg) (0.925 kg) (0.925 kg) (0.925 kg)											
Dimensions Height x Width x Length (inches) 1.44 x 8.52 x 5.5 Height x Width x Length (mm) 36.5 x 216 x 140 Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs 0.914 kg) (0.926 kg) (1.08 kg) (0.925 kg) (0.925 kg) (0.925 kg)											
Height x Width x Length (inches) 1.44 x 8.52 x 5.5 Height x Width x Length (mm) 36.5 x 216 x 140 Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs (0.914 kg) (0.926 kg) (1.08 kg) (0.925 kg) (0.925 kg) (0.925 kg)											
Height x Width x Length (mm) 36.5 x 216 x 140 Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs (0.914 kg) (0.926 kg) (1.08 kg) (0.925 kg) (0.925 kg) (0.925 kg)		1.44 x 8.52 x 5.5									
Weight 2.015 lbs 2.041 lbs 2.38 lbs 2.04 lbs 2.04 lbs 2.04 lbs (0.914 kg) (0.926 kg) (1.08 kg) (0.925 kg) (0.925 kg) (0.925 kg)											
				2.38 lbs	2.04 lbs						
	Form Factor	(0.314 kg)	(0.320 kg)			(U.JZU NY)	(U.JZJ NY)				

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



Specifications

	FG-50E	FWF-50E	FWF-50E-2R	FG-51E	FWF-51E	FG-52E	
Operating Environment and Certifications							
Power Required	INPUT: 12VDC (powered by External DC Power Adapter, 100–240V AC, 50–60 Hz)						
Maximum Current	100 V / 0.6 A, 240 V / 0.4 A 110 V / 0.32 220 V / 0.57						
Power Consumption (Average / Maximum)	15 / 18 W	18 / 22 W	22.1 / 26.5 W	16 / 20 W	19 / 23 W	22.5 / 27 W	
Heat Dissipation	62 BTU/h	75 BTU/h	90 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	10-90% non-condensing						
Noise Level	Fanless O dBA						
Operating Altitude	Up to 7,400 ft (2,250 m)						
Regulatory Compliance	FCC Part 15 Class B, C-Tick, VCCI, CE, UL/cUL, CB						
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN						

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.
FortiWiFi 50E-2R	FWF-50E-2R	7x GE RJ45 ports (including 2x WAN ports, 5x Switch ports), dual radio wireless (802.11a/b/g/n/ac), 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, FWL-60D, FVE-100E.

Bundles



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. 24}x7 plus Advanced Services Ticket Handling 2. Available when running FortiOS 6.2 | FG-VMxxS series does not include FortiCASB in its Enterprise and 360 protection bundles.



www.fortinet.com

Copyright © 2020 Fortinet, Inc. All rights reserved. Fortinet®, FortiGate®, FortiGate®, FortiGate®, 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 networks environments and other conditions may affect performance results. Nothing herein represents any binding commitment by Fortinet, and Fortinet disclaims all warranties, whether express or implied, except to the extent Fortinet enters a binding written contract, signed by Fortinet's General Councils, with a purches, what has present that expressly warrants that the identified performance for perform according to certain 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 site 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.

FST-PROD-DS-GT5051E FGFWF-50E-DAT-R27-202003