



FortiGate/FortiWiFi® 50E Series

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

Enterprise Branch
Secure SD-WAN
Unified Threat Management



The FortiGate 50E series offers an excellent network security 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

- Protects against known exploits, malware and malicious websites using continuous threat intelligence provided by FortiGuard Labs security services
- Detects unknown attacks using dynamic analysis and provides automated mitigation to stop targeted attacks

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

- Delivers an extensive routing, switching, wireless controller and high performance IPsec VPN capabilities to consolidate networking and security functionality
- Enables flexible deployment such as UTM and Secure SD-WAN

Management

- Single Pane of Glass with Network Operations Center (NOC) view provides 360° visibility to identify issues quickly and intuitively
- 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 collaboratively integrate and provide end-to-end security across the entire attack surface



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

Refer to specification table for details

DEPLOYMENT



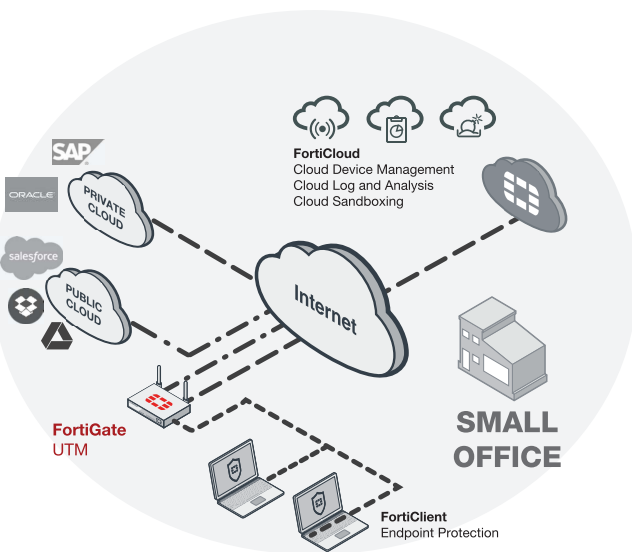
Unified Threat Management (UTM)

- Consolidated security and networking for small businesses
- Consistently top-rated protection to stop threats
- Integrated wired and wireless networking to simplify IT
- Purpose-built hardware for industry best performance
- Cloud management for easy administration

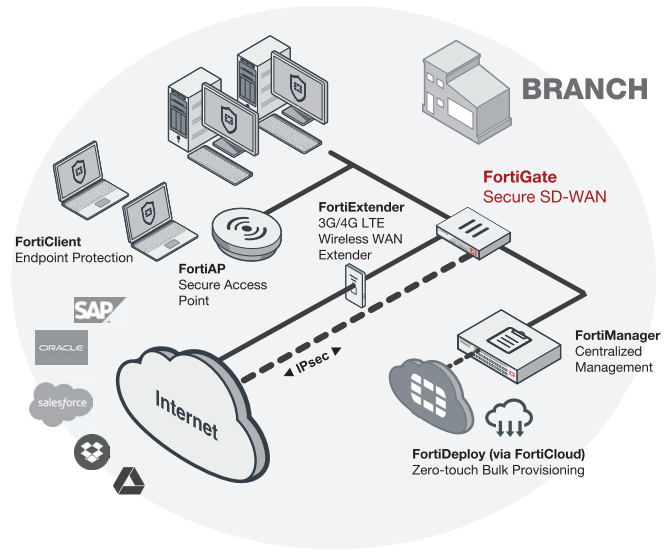


Secure SD-WAN

- Secure direct internet access for Cloud Applications for improved latency and reduce WAN cost spending
- Effective, cost-efficient and high performance threat prevention capabilities
- WAN Path Controller and Link Health Monitoring for better application performance
- Security Processor powered industry's best IPsec VPN and SSL Inspection performance
- Centralized Management and Zero Touch deployment



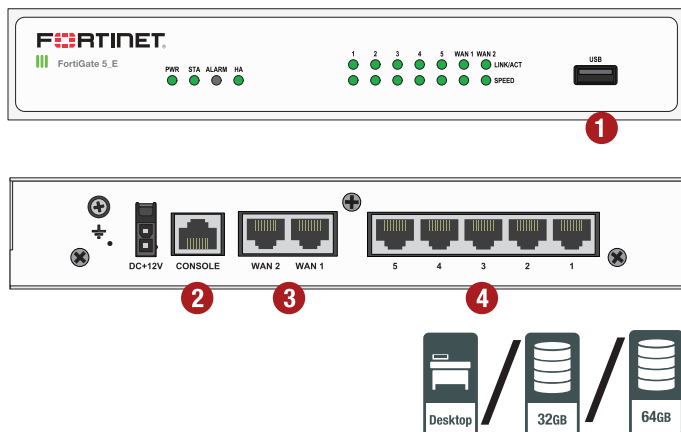
FortiWiFi 50E deployment in small office (UTM)



FortiGate 50E deployment in branch office (Secure SD-WAN)

HARDWARE

FortiGate 50/51/52E



Interfaces

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

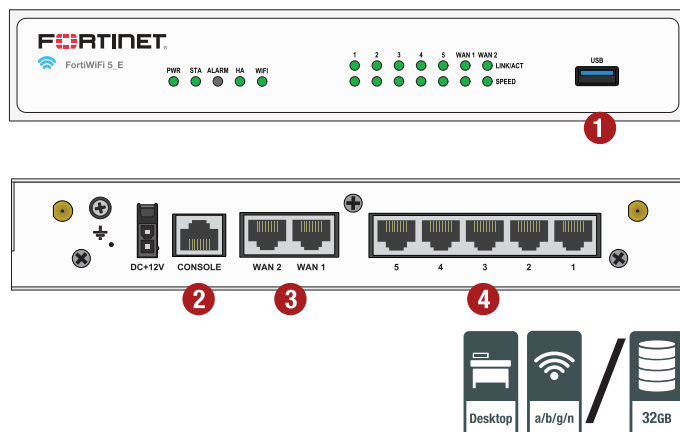
Install in Minutes with FortiExplorer

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.

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.

FortiWiFi 50E/-2R and 51E



Interfaces

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

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

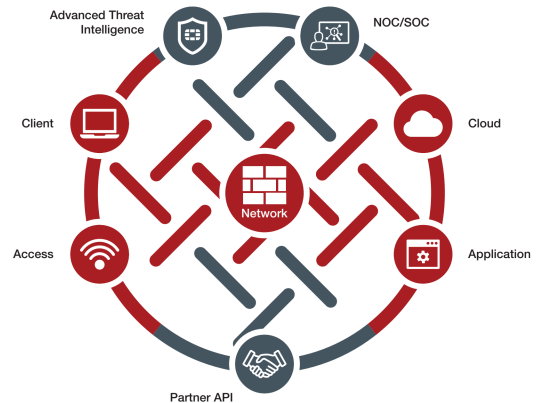
A built-in dual-band, dual-stream access point on the FortiWiFi 50E-2R provides speedy 802.11ac coverage on both 2.4 GHz and 5 GHz bands. The dual-band chipset addresses the PCI-DSS compliance requirement for rogue AP wireless scanning.

FORTINET SECURITY FABRIC

Security Fabric

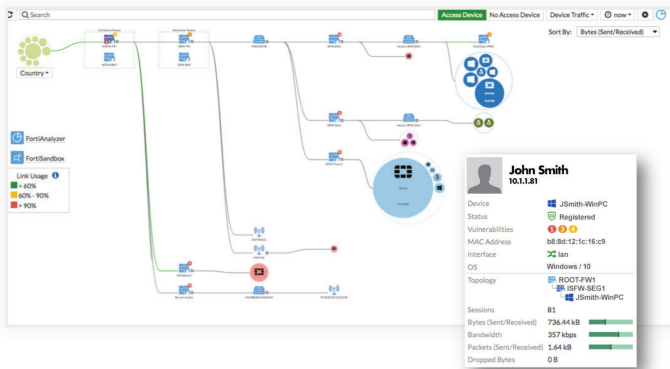
The Security Fabric allows security to dynamically expand and adapt as more and more workloads and data are added. Security seamlessly follows and protects data, users, and applications as they move between IoT, devices, and cloud environments throughout the network.

FortiGate is 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 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 ICSCA validated security and performance.
- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings.
- Prevent, detect, and mitigate advanced attacks automatically in minutes with integrated advanced threat protection.
- Fulfill your networking needs with extensive routing, switching, and SD-WAN capabilities.
- Utilize SPU hardware acceleration to boost security capability performance.



For more information, please refer to the FortiOS data sheet available at 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 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

	FG-50E	FWF-50E	FWF-50E-2R	FG-51E	FWF-51E	FG-52E
Hardware Specifications						
GE RJ45 Switch Ports			5			
GE RJ45 WAN Ports			2			
USB Ports			1			
Console (RJ45)			1			
Wireless Interface	—	802.11 a/b/g/n	dual radio, 802.11a/b/g/n/ac	—	802.11 a/b/g/n	—
Internal Storage	—	—	—	32 GB	32 GB	2x 32 GB
System Performance						
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) ¹			90 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, Tunnel Mode)			80			
SSL Inspection Throughput (IPS, HTTP) ³			185 Mbps			
Application Control Throughput (HTTP 64K) ²			450 Mbps			
CAPWAP Throughput (1444 byte, UDP)			1.9 Gbps			
Virtual Domains (Default / Maximum)			5 / 5			
Maximum Number of Switches Supported			8			
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			
System Performance — Optimal Traffic Mix						
IPS Throughput ²			800 Mbps			
System Performance — Enterprise Traffic Mix						
IPS Throughput ²			350 Mbps			
NGFW Throughput ^{2,4}			220 Mbps			
Threat Protection Throughput ^{2,5}			160 Mbps			
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 (0.914 kg)	2.041 lbs (0.926 kg)	2.38 lbs (1.08 kg)	2.04 lbs (0.925 kg)	2.04 lbs (0.925 kg)	2.04 lbs (0.925 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 test uses TLS v1.2 with AES128-SHA256.

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

	FG-50E	FWF-50E	FWF-50E-2R	FG-51E	FWF-51E	FG-52E
Operating Environment and Certifications						
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	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 0 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, FML-60D, FVE-100E.



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.



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