FortiGate/FortiWiFi® 50/51E
High Performance UTM
for Small Networks

FortiGate/FortiWiFi 50/51E

The FortiGate/FortiWiFi 50/51E are compact, cost effective, all-in-one security appliances that deliver Fortinet's Connected UTM. Ideal for small business, remote, customer premise equipment (CPE) and retail networks, these appliances offer the network security, connectivity and performance you need.

High Performance Network Security

Built on the foundation FortiOS 5, the FortiGate/FortiWiFi 50/51E series provides an integrated set of essential security technologies to protect all of your applications and data. You get advanced threat protection, including firewall, application control, advanced threat protection, IPS, VPN, and web filtering, all from one device that's easy to deploy and manage. With our FortiGuard® security subscription services you'll have automated protection against today's sophisticated threats.

Advanced Features

The FortiGate/FortiWiFi 50/51E offers beyond the industry's best firewall with the latest in Advanced Threat Protection including Sandboxing and anti-bot protection, Feature Select Options for simplifying configurations and deployments, and Contextual Visibility for enhanced reporting and management.

VDOMs on the FortiGate/FortiWiFi 50/51E let you segment networks to enable guest and employee access, or protect things like cardholder data. You get the flexibility to match your business needs and meet compliance standards like PCI and HIPAA.

With 32 GB of robust internal storage, the FortiGate/FortiWiFi 51E allows you to implement integrated WAN optimization and web caching to improve user productive when securely accessing remote applications and document.

Highlights

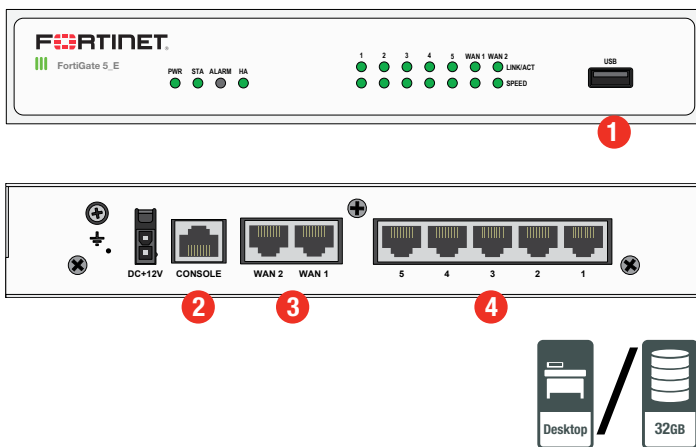| Firewall Performance	IPS Performance	Interfaces
2.5 Gbps	800 Mbps	Multiple GE RJ45

Features & Benefits

- High performance UTM — firewall, VPN, IPS, application control, web filtering, antivirus, antispam, DLP and more

- Runs on FortiOS 5 — the most powerful security operating system in the world delivers more protection for fighting advanced threats and visibility with deep contextual information

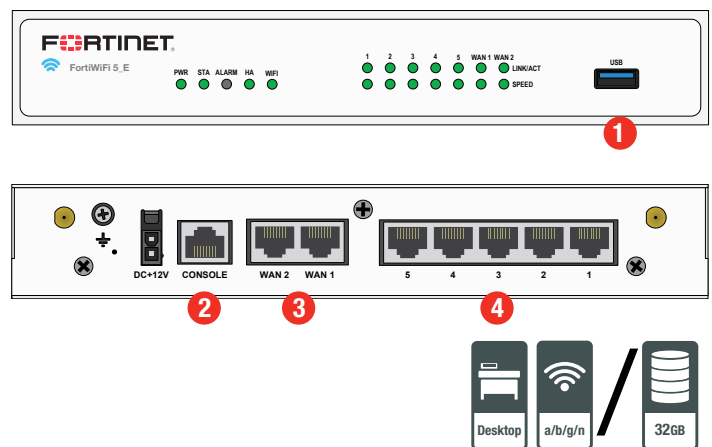- Reliable internal storage for logging, reporting, web caching and WAN Optimization

ICSAlabs CERTIFIED ANTI-VIRUS   ICSAlabs CERTIFIED FIREWALL-CORPORATE   ICSAlabs CERTIFIED IPSEC-BASIC

ICSAlabs CERTIFIED SSL VPN   ICSAlabs CERTIFIED NETWORK IPS

FortiGate Extensions

FortiAP
forti.net/fap

FortiClient
forti.net/fct

FortiToken
forti.net/ftk

HARDWARE

FortiGate 50/51E

FortiWiFi 50/51E

Interfaces

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

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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.

Compact and Reliable Form Factor

Designed for small environments, you can simply place the FortiGate/FortiWiFi 50/51E 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
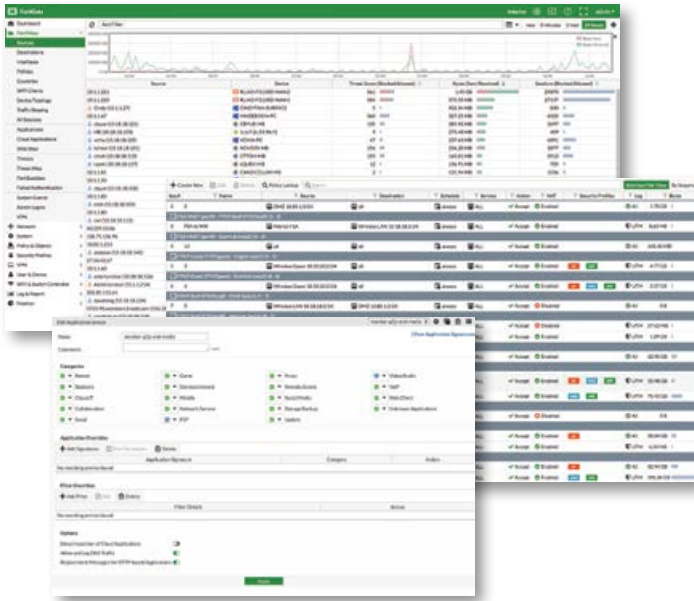
FortiOS Managment UI —
FortiView, Policy Table and Application Control Panel

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 ICSA 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-boosted capabilities you need on the fastest firewall platform available.

> 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, 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.

> For more information, please refer to
> http://forti.net/guard

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.

- **Premium 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.

> For more information, please refer to
> http://forti.net/care

SPECIFICATIONS

	FG-50E	FWF-50E	FG-51E	FWF-51E
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	—	802.11 a/b/g/n
Internal Storage	—	—	32 GB	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 packets)	200 Mbps			
Gateway-to-Gateway IPsec VPN Tunnels	20			
Client-to-Gateway IPsec VPN Tunnels	250			
SSL-VPN Throughput	100 Mbps			
Concurrent SSL-VPN Users (Recommended Maximum)	80			
IPS Throughput (HTTP / Enterprise Mix)	800 / 270 Mbps			
SSL Inspection Throughput	250 Mbps			
NGFW Throughput	160 Mbps			
CAPWAP Throughput	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			

	FG-50E	FWF-50E	FG-51E	FWF-51E
Dimensions				
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)
Form Factor	Desktop			
Environment				
Power Required	100–240V AC, 60–50 Hz (External DC Power Adapter)			
Maximum Current	100 V / 0.6 A, 240 V / 0.4 A			
Power Consumption (Average / Maximum)	18 / 15 W	22 / 18 W	20 / 16 W	23 / 19 W
Heat Dissipation	62 BTU/h	75 BTU/h	67 BTU/h	79 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)			
Compliance				
Regulatory Compliance	FCC Part 15 Class B, C-Tick, VCCI, CE, UL/cUL, CB			
Certifications				
	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. NGFW performance is measured with Flow AV (Full Mode), IPS and Application Control enabled, based on Enterprise Traffic Mix. SSL Inspection is measured with IPS enabled and HTTP traffic, using TLS v1.2 with AES254-SHA. 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.
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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