

# FortiGate/FortiWiFi® 50E Series

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



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.**



## Security Fabric Integration

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



## Deployment Modes

- Unified Threat Management
- Distributed Enterprise Firewall



**2.5 Gbps**  
*Firewall*

**1.8 Million**  
*Concurrent Sessions*



**270 Mbps**  
*IPS*



**220 Mbps**  
*NGFW*



**160 Mbps**  
*Threat Protection*



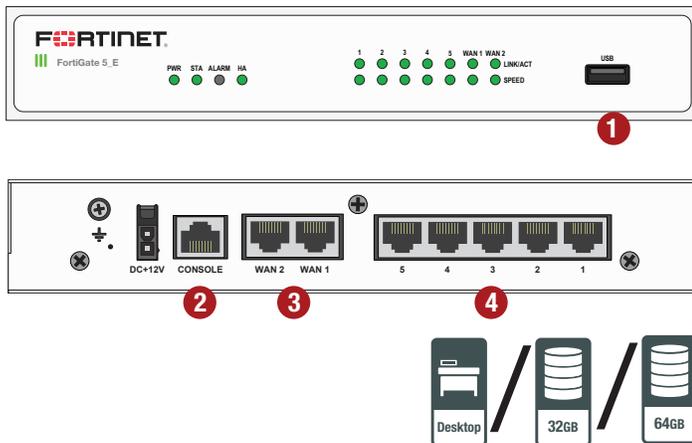
Multiple GE RJ45 | WiFi Variants | Variants with dual radios | Variants with internal storage

## Third-Party Certifications



## HARDWARE

### FortiGate 50/51/52E



### Interfaces

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

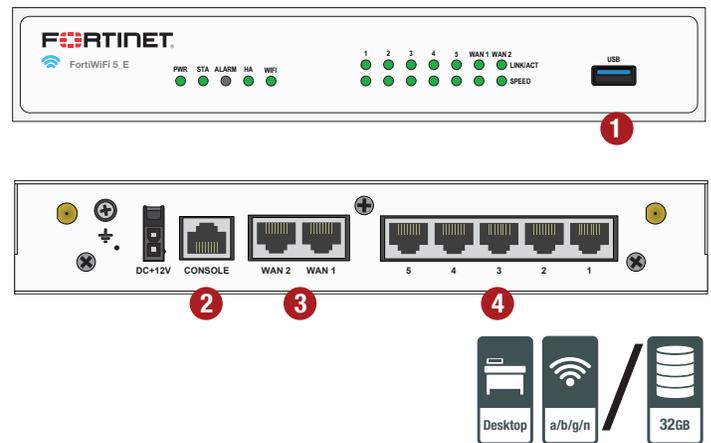
### Install in Minutes with FortiExplorer

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.

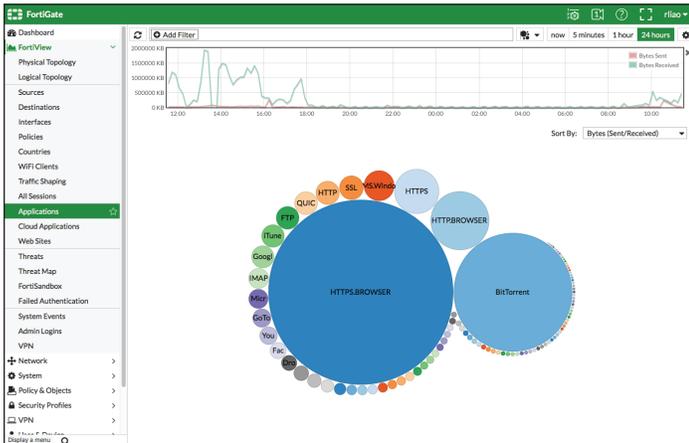
### Superior Wireless Coverage

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.

## 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 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 SPU-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                 | FWF-50E-2R                                | 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          | dual radio,<br>802.11a/b/g/n/ac           | —                      | 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 8.52 x 5.5                         |                        |                        |                                   |
| Height x Width x Length (mm)                        |   |                         | 36.5 x 216 x 140                          |                        |                        |                                   |
| Weight  | 2.015 lbs<br>(0.914 kg)                           | 2.041 lbs<br>(0.926 kg) | 2.38 lbs<br>(1.08 kg)                     | 2.04 lbs<br>(0.925 kg) | 2.04 lbs<br>(0.925 kg) | 2.04 lbs<br>(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,<br>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  | 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.                            |
| 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.                  |



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