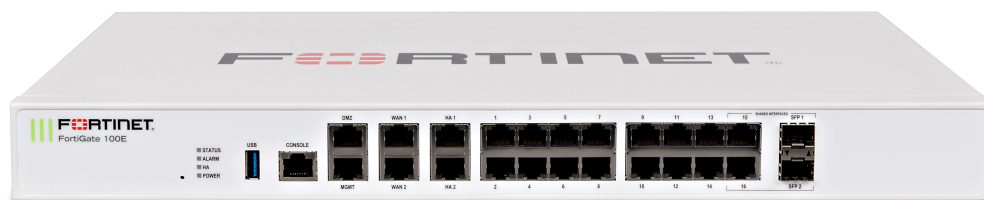


FortiGate® 100E Series

FortiGate 100E, 101E, 100EF and 140E-POE

Next Generation Firewall
Secure SD-WAN



The FortiGate 100E series delivers next-generation firewall capabilities for mid-sized to large enterprises, with the flexibility to be deployed at the campus or enterprise branch. Protect against cyber threats with security processor powered high performance, security efficacy and deep visibility.

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 and unknown attacks using continuous threat intelligence from AI-powered FortiGuard Labs security services

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

- Best of Breed SD-WAN capabilities to enable application steering using WAN path control for high quality of experience
- Delivers advanced networking capabilities, high-performance, and scalable IPsec VPN capabilities to consolidate networking and security

Management

- Includes management console that's effective, simple to use, and provides comprehensive network automation & visibility.
- Provides Zero Touch Integration with Security Fabric's Single Pane of Glass Management
- 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 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 |
|----------|----------|----------|-------------------|---|
| 7.4 Gbps | 500 Mbps | 360 Mbps | 250 Mbps | Multiple GE RJ45, GE SFP Slots PoE/+ Variants |

Refer to specification table for details

Deployment



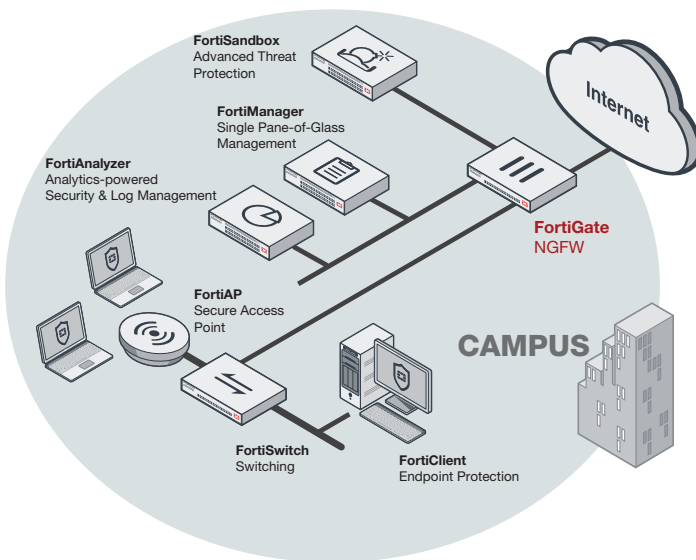
Next Generation Firewall (NGFW)

- Reduce complexity by combining threat protection security capabilities into the single high-performance network security appliance
- Identify and stop threats with powerful intrusion prevention beyond port and protocol that examines the actual applications in your network traffic
- Delivers industry's highest SSL inspection performance using industry-mandated ciphers while maximizing ROI
- Proactively blocks newly discovered sophisticated attacks in real-time with advanced threat protection

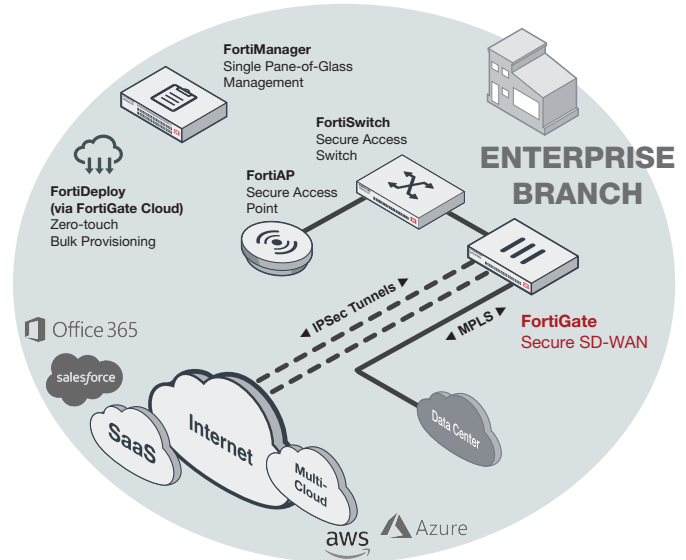


Secure SD-WAN

- Secure direct Internet access for Cloud applications for improved latency and reduce WAN cost spending
- High-performance and cost-effective threat protection capabilities
- WAN Path Controller and Link Health Monitoring for better application performance
- Security Processor powered industry's best IPsec VPN and SSL Inspection performance
- Simplified Management and Zero-Touch deployment



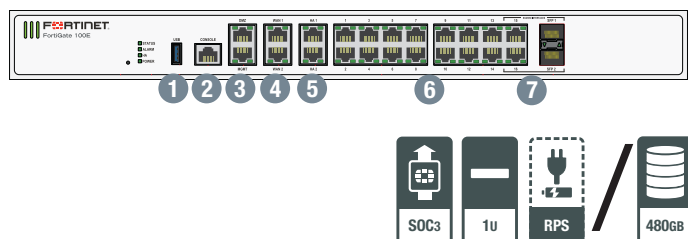
FortiGate 100E deployment in Campus
(NGFW)



FortiGate 100E deployment in Enterprise Branch
(Secure SD-WAN)

Hardware

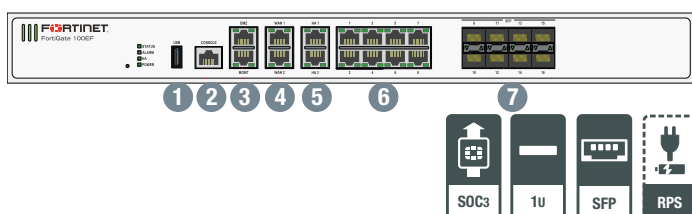
FortiGate 100E/101E



Interfaces

1. USB Port
2. Console Port
3. 2x GE RJ45 MGMT/DMZ Ports
4. 2x GE RJ45 WAN Ports
5. 2x GE RJ45 HA Ports
6. 14x GE RJ45 Ports
7. 2x GE RJ45/SFP Shared Media Pairs

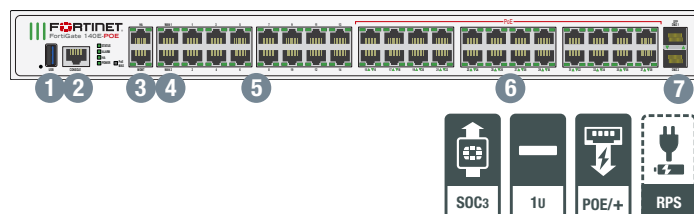
FortiGate 100EF



Interfaces

1. USB Port
2. Console Port
3. 2x GE RJ45 MGMT/DMZ Ports
4. 2x GE RJ45 WAN Ports
5. 2x GE RJ45 HA Ports
6. 8x GE RJ45 Ports
7. 8x GE SFP Slots

FortiGate 140E-POE



Interfaces

1. USB Port
2. Console Port
3. 2x GE RJ45 MGMT/HA Ports
4. 2x GE RJ45 WAN Ports
5. 14x GE RJ45 Ports
6. 24x GE RJ45 POE Ports
7. 2x GE SFP DMZ Slots

Powered by SPU SoC3

- Combines a RISC-based CPU with Fortinet's proprietary Security Processing Unit (SPU) content and network processors for unmatched performance
- Simplifies appliance design and enables breakthrough performance for smaller networks
- Supports firewall acceleration across all packet sizes for maximum throughput
- Delivers accelerated UTM content processing for superior performance and protection
- Accelerates VPN performance for high speed, secure remote access



Redundant Power Supply

Power supply redundancy is essential in the operation of mission-critical networks. The FortiGate 100E Series offers the option to connect to an external redundant power supply appliance — The FortiRPS 100, designed to increase network availability and uptime.

Fortinet Security Fabric

Security Fabric

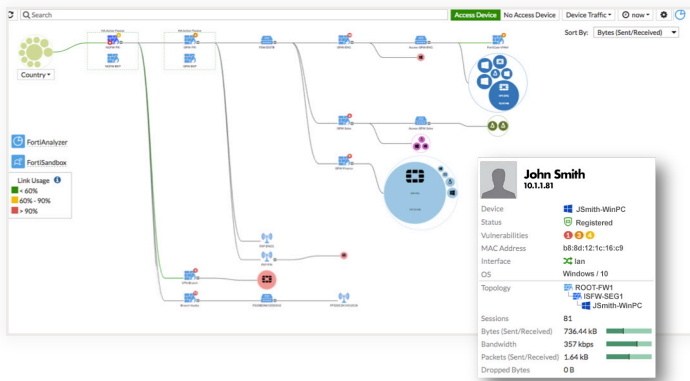
The Security Fabric delivers broad visibility, integrated AI-driven breach prevention, and automated operations, orchestration, and response across all Fortinet and its ecosystem deployments. It allows security to dynamically expand and adapt as more and more workloads and data are added. Security seamlessly follows and protects data, users, and applications as they move between IoT, devices, and cloud environments throughout the network. All this is tied together under a single pane of glass management to deliver leading security capabilities across your entire environment while also significantly reducing complexity.

FortiGates are 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 security and networking capabilities across the entire FortiGate platform with one intuitive operating system. Reduce complexity, costs, and response time with a truly consolidated next-generation security platform.



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.



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

| | FORTIGATE 100E | FORTIGATE 101E | FORTIGATE 100EF | FORTIGATE 140E-POE |
|--|----------------------------|---|----------------------------|--------------------|
| Hardware Specifications | | | | |
| GE RJ45 Ports | 14 | 14 | 8 | 14 |
| GE RJ45 Management/HA/DMZ Ports | 1 / 2 / 1 | 1 / 2 / 1 | 1 / 2 / 1 | 1 / 1 / — |
| GE SFP Slots | — | — | 8 | 2 |
| GE RJ45 PoE/+ Ports | — | — | — | 24 |
| GE RJ45 WAN Ports | 2 | 2 | 2 | 2 |
| GE RJ45 or SFP Shared Ports | 2 | 2 | — | — |
| USB Port | 1 | 1 | 1 | 1 |
| Console Port | 1 | 1 | 1 | 1 |
| Internal Storage | — | 1x 480 GB SSD | — | — |
| Included Transceivers | 0 | 0 | 0 | 0 |
| System Performance — Enterprise Traffic Mix | | | | |
| IPS Throughput ² | | | 500 Mbps | |
| NGFW Throughput ^{2,4} | | | 360 Mbps | |
| Threat Protection Throughput ^{2,5} | | | 250 Mbps | |
| System Performance | | | | |
| Firewall Throughput (1518 / 512 / 64 byte UDP packets) | | 7.4 / 7.4 / 4.4 Gbps | | |
| Firewall Latency (64 byte UDP packets) | | 3 μs | | |
| Firewall Throughput (Packets Per Second) | | 6.6 Mpps | | |
| Concurrent Sessions (TCP) | | 2 Million | | |
| New Sessions/Second (TCP) | | 30,000 | | |
| Firewall Policies | | 10,000 | | |
| IPsec VPN Throughput (512 byte) ¹ | | 4 Gbps | | |
| Gateway-to-Gateway IPsec VPN Tunnels | | 2,000 | | |
| Client-to-Gateway IPsec VPN Tunnels | | 10,000 | | |
| SSL-VPN Throughput | | 250 Mbps | | |
| Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode) | | 500 | | |
| SSL Inspection Throughput (IPS, avg. HTTPS) ³ | | 130 Mbps | | |
| SSL Inspection CPS (IPS, avg. HTTPS) ³ | | 130 | | |
| SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³ | | 125,000 | | |
| Application Control Throughput (HTTP 64K) ² | | 1 Gbps | | |
| CAPWAP Throughput (1444 byte, UDP) | | 1.5 Gbps | | |
| Virtual Domains (Default / Maximum) | | 10 / 10 | | |
| Maximum Number of FortiSwitches Supported | | 24 | | |
| Maximum Number of FortiAPs (Total / Tunnel Mode) | | 64 / 32 | | |
| Maximum Number of FortiTokens | | 5,000 | | |
| Maximum Number of Registered FortiClients | | 600 | | |
| High Availability Configurations | | Active / Active, Active / Passive, Clustering | | |
| Dimensions | | | | |
| Height x Width x Length (inches) | 1.75 x 17 x 10 | 1.75 x 17 x 10 | 1.75 x 17 x 10 | 1.75 x 17 x 15.5 |
| Height x Width x Length (mm) | 44.45 x 432 x 254 | 44.45 x 432 x 254 | 44.45 x 432 x 254 | 44.45 x 432 x 394 |
| Form Factor | Rack Mount, 1 RU | Rack Mount, 1 RU | Rack Mount, 1 RU | Rack Mount, 1 RU |
| Weight | 7.28 lbs (3.3 kg) | 7.28 lbs (3.3 kg) | 7.28 lbs (3.3 kg) | 12.4 lbs (5.6 kg) |
| Environment | | | | |
| Power Required | | 100–240V AC, 60–50 Hz | | |
| Maximum Current | 100V / 0.52A, 240V / 0.22A | 100V / 0.59A, 240V / 0.25A | 100V / 0.52A, 240V / 0.22A | 100V / 5A |
| Total Available PoE Power Budget* | — | — | — | 400 W |
| Power Consumption (Average / Maximum) | 23.0 W / 28.6 W; 51.9 VA | 24.8 W / 33.8 W; 59.2 VA | 24.4 W / 28.6 W; 51.9 VA | 477.1 W / 500.0 W |
| Heat Dissipation | 97.6 BTU/h | 115.3 BTU/h | 97.6 BTU/h | 1706.07 BTU/h |

* Maximum loading on each PoE/+ port is 30 W (802.3at).

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.

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

| | FORTIGATE 100E | FORTIGATE 101E | FORTIGATE 100EF | FORTIGATE 140E-POE |
|-----------------------|----------------|---|-----------------|--------------------|
| Environment | | | | |
| Operating Temperature | | 32–104°F (0–40°C) | | |
| Storage Temperature | | -31–158°F (-35–70°C) | | |
| Operating Altitude | | Up to 7,400 ft (2,250 m) | | |
| Humidity | | 10–90% non-condensing | | |
| Noise Level | 40.4 dBA | 40.4 dBA | 40.4 dBA | 57 dBA |
| Compliance | | FCC Part 15B, Class A, CE, RCM, VCCI, UL/cUL, CB, BSMI | | |
| Certifications | | ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN; IPv6 | | |

Order Information

| Product | SKU | Description |
|------------------------------------|-------------|--|
| FortiGate 100E | FG-100E | 20x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x Mgmt port, 2x HA ports, 14x switch ports), 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots). Maximum managed FortiAPs (Total / Tunnel) 64 / 32. |
| FortiGate 101E | FG-101E | 20 x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x Mgmt port, 2x HA ports, 14x switch ports), 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots) 480 GB onboard storage. Maximum managed FortiAPs (Total / Tunnel) 64 / 32. |
| FortiGate 100EF | FG-100EF | 14x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x Mgmt port, 2x HA ports, 8x internal switch ports), 8x SFP ports. Maximum managed FortiAPs (Total / Tunnel) 64 / 32. |
| FortiGate 140E-POE | FG-140E-POE | 42x GE RJ45 ports (including 2x WAN ports, 1x Mgmt port, 1x HA port, 24x RJ45 GE PoE/PoE+ ports, 14x switch ports), 2x GE SFP DMZ slots. Maximum managed FortiAPs (Total / Tunnel) 64 / 32. |
| Optional Accessories | | |
| External redundant AC power supply | FRPS-100 | External redundant AC power supply for up to 4 units: FG-100/101E, FG-300C, FG-310B, FS-348B and FS-448B. Up to 2 units: FG-200B, FG-200D, FG-200/201E, FG-240D and FG-300D, FG-400D, FG-500D, FG-600D, FHV-500D, FDD-200B, FDD-400B, FDD-600B and FDD-800B. |
| 1 GE SFP LX transceiver module | FG-TRAN-LX | 1 GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots. |
| 1 GE SFP RJ45 transceiver module | FG-TRAN-GC | 1 GE SFP RJ45 transceiver module for all systems with SFP and SFP/SFP+ slots. |
| 1 GE SFP SX transceiver module | FG-TRAN-SX | 1 GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots. |

Bundles



FortiGuard 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 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. 24x7 plus Advanced Services Ticket Handling 2. Available when running FortiOS 6.2



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