FortiGate® 200E Series

FortiGate 200E and 201E
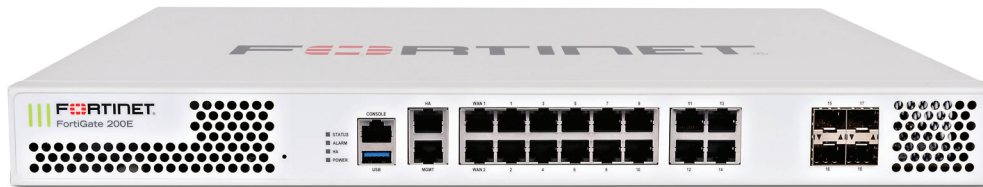
The FortiGate 200E series delivers next generation firewall capabilities for mid-sized to large enterprises, with the flexibility to be deployed at the campus or enterprise branch. Protect against cyber threats with security processor powered high performance, security efficacy and deep visibility.

Security
- Protects against known exploits, malware and malicious websites using continuous threat intelligence provided by FortiGuard Labs security services
- Identify thousands of applications including cloud applications for deep inspection into network traffic
- 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-eading 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 Next Generation Firewall 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
- 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
20 Gbps	2.2 Gbps	1.8 Gbps	1.2 Gbps	Multiple GE RJ45, GE SFP Slots

Refer to specification table for details
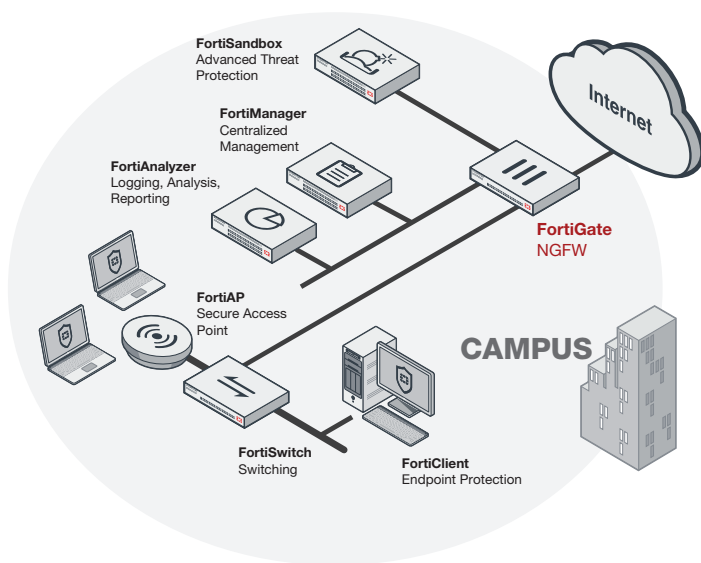
DEPLOYMENT

Next Generation Firewall (NGFW)

- Combines threat prevention security capabilities into single high performance network security appliance
- Reduces complexity by creating campus topology view and providing granular visibility of devices, users and threat information
- Identify and stop threats with powerful intrusion prevention beyond port and protocol that examines the actual content of your network traffic
- Delivers industry's highest SSL inspection performance using industry-mandated ciphers
- Proactively detect malicious unknown threats using integrated cloud-based sandbox service

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
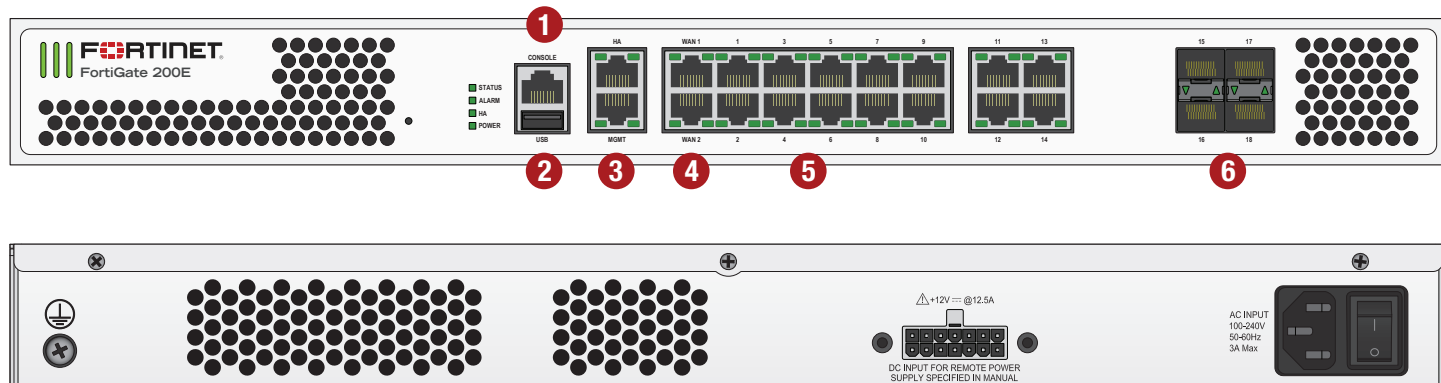- Centralized Management and Zero-Touch deployment

FortiGate 200E deployment in campus
(NGFW)
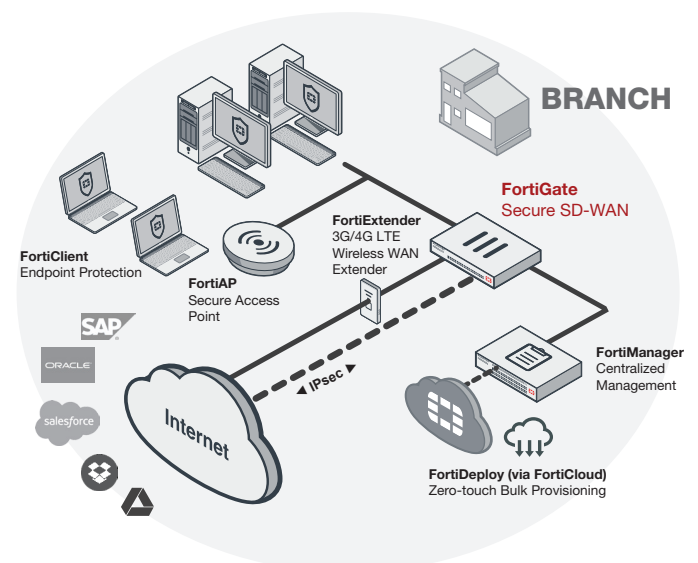
FortiGate 200E deployment in branch office
(Secure SD-WAN)

HARDWARE

FortiGate 200E/201E

Interfaces

1. Console Port	4. 2x GE RJ45 WAN Ports
2. USB Port	5. 14x GE RJ45 Ports
3. 2x GE RJ45 Management/HA Ports	6. 4x GE SFP Slots

Powered by SPU

SPU

- 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

Content Processor

Fortinet's new, breakthrough SPU CP9 content processor works outside of the direct flow of traffic and accelerates the inspection of computationally intensive security features:

- Enhanced IPS performance with unique capability of full signature matching at ASIC
- SSL Inspection capabilities based on the latest industry mandated cipher suites
- Encryption and decryption offloading

Network Processor

The SPU NP6Lite network processor works inline with firewall and VPN functions delivering:

- Wire-speed firewall performance for any size packets
- VPN acceleration
- Anomaly-based intrusion prevention, checksum offload and packet defragmentation
- Traffic shaping and priority queuing

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.

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.
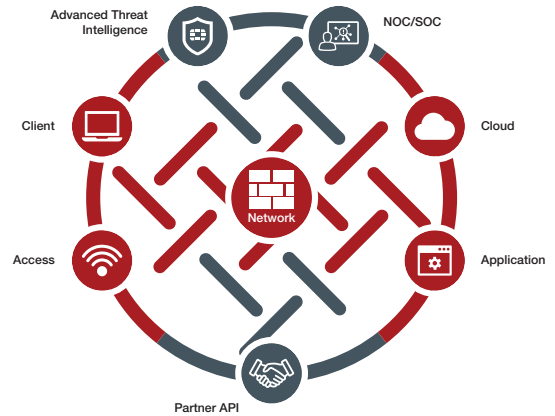
FortiOS

Control all 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.
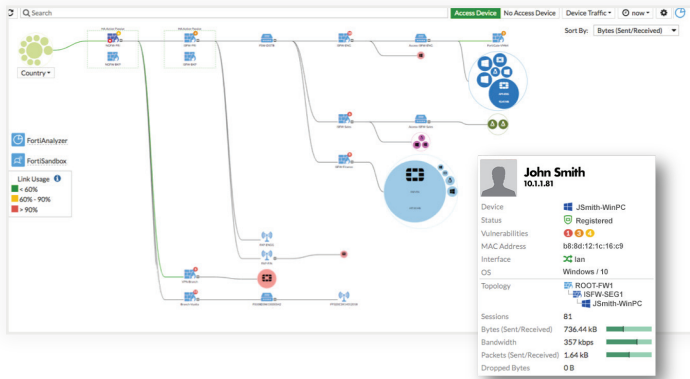
- A truly consolidated platform with one OS for all security and networking services for all FortiGate platforms.
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSA validated security and performance.
- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings.
- 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

	FORTIGATE 200E	FORTIGATE 201E
Hardware Specifications		
GE RJ45 WAN Interfaces	2	
GE RJ45 Management/HA Ports	2	
GE RJ45 Ports	14	
GE SFP Slots	4	
USB port	1	
Console (RJ45)	1	
Local Storage	—	480 GB
Included Transceivers	0	
System Performance		
Firewall Throughput (1518 / 512 / 64 byte UDP packets)	20 / 20 / 9 Gbps	
Firewall Latency (64 byte UDP packets)	3 µs	
Firewall Throughput (Packets Per Second)	13.5 Mpps	
Concurrent Sessions (TCP)	2 Million	
New Sessions/Second (TCP)	135,000	
Firewall Policies	10,000	
IPsec VPN Throughput (512 byte) [1]	9 Gbps	
Gateway-to-Gateway IPsec VPN Tunnels	2,000	
Client-to-Gateway IPsec VPN Tunnels	10,000	
SSL-VPN Throughput	900 Mbps	
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	300	
SSL Inspection Throughput (IPS, HTTP) [3]	1 Gbps	
Application Control Throughput (HTTP 64K) [2]	3.5 Gbps	
CAPWAP Throughput [6]	1.5 Gbps	
Virtual Domains (Default / Maximum)	10 / 10	
Maximum Number of Switches Supported	24	
Maximum Number of FortiAPs (Total / Tunnel Mode)	128 / 64	
Maximum Number of FortiTokens	1,000	
Maximum Number of Registered FortiClients	600	
High Availability Configurations	Active / Active, Active / Passive, Clustering	
System Performance — Optimal Traffic Mix		
IPS Throughput [2]	6 Gbps	
System Performance — Enterprise Traffic Mix		
IPS Throughput [2]	2.2 Gbps	
NGFW Throughput [2,4]	1.8 Gbps	
Threat Protection Throughput [2,5]	1.2 Gbps	

	FORTIGATE 200E	FORTIGATE 201E
Dimensions		
Height x Width x Length (inches)	1.7 x 17.0 x 11.9	
Height x Width x Length (mm)	44 x 432 x 301	
Weight	11.9 lbs (5.4 kg)	12.12 lbs (5.5 kg)
Form Factor	Rack Mount, 1 RU	
Environment		
Power	100–240V AC, 50–60 Hz	
Maximum Current	110 V / 3 A, 220 V / 1.5 A	110 V / 7 A, 220 V / 3.5 A
Power Consumption (Average / Maximum)	70.98 / 109.9 W	
Heat Dissipation	374.9 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	65 dBA	
Operating Altitude	Up to 7,400 ft (2,250 m)	
Compliance	FCC Part 15B, Class A, CE, RCM, VCCI, UL/cUL, CB, BSMI	
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN; IPv6	

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.

ORDER INFORMATION

Product	SKU	Description
FortiGate 200E	FG-200E	18x GE RJ45 (including 2x WAN ports, 1x Mgmt port, 1x HA port, 14x switch ports), 4x GE SFP slots. SPU NP6Lite and CP9 hardware accelerated.
FortiGate 201E	FG-201E	18x GE RJ45 (including 2x WAN ports, 1x Mgmt port, 1x HA port, 14x switch ports), 4x GE SFP slots, SPU NP6Lite and CP9 hardware accelerated, 480 GB onboard SSD storage.
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.

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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