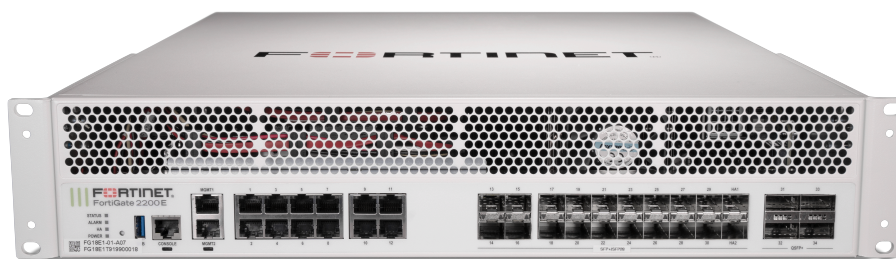


DATA SHEET

# FortiGate® 2200E Series

FG-2200E and FG-2201E

Next Generation Firewall  
Segmentation  
Secure Web Gateway  
IPS  
Mobile Security



The FortiGate 2200E series delivers high performance next generation firewall (NGFW) capabilities for large enterprises and service providers. With multiple high-speed interfaces, high-port density, and high-throughput, ideal deployments are at the enterprise edge, hybrid data center core, and across internal segments. Leverage industry-leading IPS, SSL inspection, and advanced threat protection to optimize your network performance. Fortinet's Security-Driven Networking approach provides tight network integration to the new security generation.

## 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
- Prevent and detect 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

## Networking

- Delivers advanced networking capabilities that seamlessly integrate with advanced layer 7 security and virtual domains (VDMs) to offer extensive deployment flexibility, multi-tenancy and effective utilization of resources
- Delivers high-density, flexible combination of various high-speed interfaces to enable best TCO for customers for data center and WAN deployments

## Management

- Includes a management console that is effective, simple to use, and provides comprehensive network automation and 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

Firewall	IPS	NGFW	Threat Protection	Interfaces
158 Gbps	16.5 Gbps	13.5 Gbps	11 Gbps	Multiple GE RJ45, 25 GE SFP28 / 10 GE SFP+ / GE SFP, and 40 GE QSFP+ slots

Refer to specification table for details



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- Secure web access from both internal and external risks, even for encrypted traffic at high performance
- Enhanced user experience with dynamic web and video caching
- Block and control web access based on user or user groups across URLs and domains
- Prevent data loss and discover user activity to known and unknown cloud applications
- Block DNS requests against malicious domains
- Multi-layered advanced protection against zero-day malware threats delivered over the web



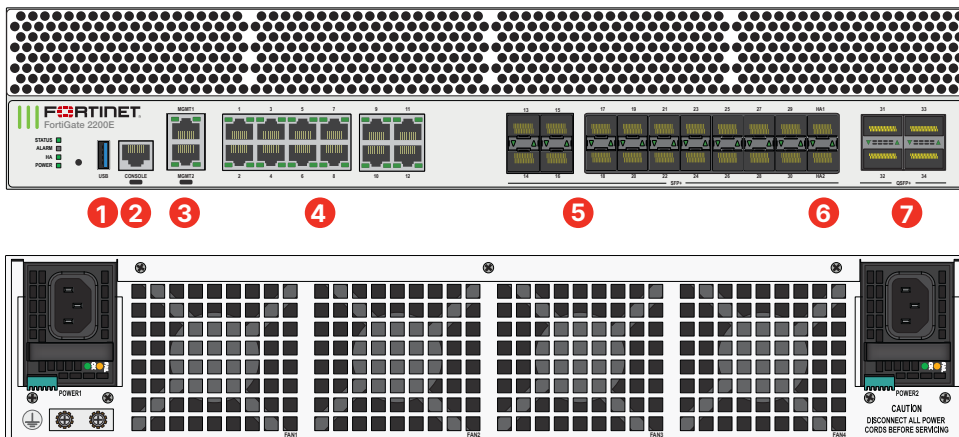
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- SPU accelerated, high performance CGNAT and IPv6 migration option including: NAT44, NAT444, NAT64/DNS64, NAT46 for 4G Gi/sGi and 5G N6 connectivity and security
- RAN Access Security with highly scalable and best performing IPsec aggregation and control security gateway (SecGW)
- User plane security enabled by full Threat Protection and visibility into GTP-U inspection
- 4G and 5G security for user and data plane traffic including SCTP, GTP-U, and SIP that provides protection against attacks
- High-speed interfaces to enable deployment flexibility



## HARDWARE

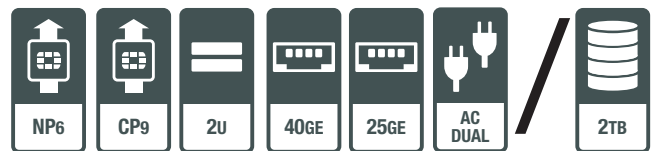
### FortiGate 2200E and FortiGate 2201E



### Interfaces

1. 1x USB Port
2. 1x Console Port
3. 2x GE RJ45 MGMT Ports
4. 12x GE RJ45 Ports
5. 18x 25 GE SFP28 / 10 GE SFP+ / GE SFP Slots
6. 2x 25 GE SFP28 / 10 GE SFP+ / GE SFP HA Slots
7. 4x 40 GE QSFP+ Slots

### Hardware Features



### Powered by SPU

- Fortinet's custom SPU processors deliver the power you need to detect malicious content at multi-Gigabit speeds
- Other security technologies cannot protect against today's wide range of content- and connection-based threats because they rely on general-purpose CPUs, causing a dangerous performance gap
- SPU processors provide the performance needed to block emerging threats, meet rigorous third-party certifications, and ensure that your network security solution does not become a network bottleneck



### Network Processor

Fortinet's new, breakthrough SPU NP6 network processor works inline with FortiOS functions delivering:

- Superior firewall performance for IPv4/IPv6, SCTP and multicast traffic with ultra-low latency
- VPN, CAPWAP and IP tunnel acceleration
- Anomaly-based intrusion prevention, checksum offload, and packet defragmentation
- Traffic shaping and priority queuing

### Content Processor

Fortinet's ninth generation custom SPU CP9 content processor works outside of the direct flow of traffic and accelerates the inspection.

### High-Speed Connectivity

High-speed connectivity is essential for network security segmentation at the core of data networks. The FortiGate 2200E series provides 40 GE and 25 GE interfaces, simplifying network designs without relying on additional devices to bridge desired connectivity.



## FORTINET SECURITY FABRIC

### Security Fabric

The industry's highest-performing cybersecurity platform, powered by FortiOS, with a rich ecosystem designed to span the extended digital attack surface, delivering fully automated, self-healing network security.

- **Broad:** Coordinated detection and enforcement across the entire digital attack surface and lifecycle with converged networking and security across edges, clouds, endpoints, and users
- **Integrated:** Integrated and unified security, operation, and performance across different technologies, location, deployment options, and the richest ecosystem
- **Automated:** Context aware, self-healing network and security posture leveraging cloud-scale and advanced AI to automatically deliver near-real-time, user-to-application coordinated protection across the Fabric

The Fabric empowers organizations of any size to secure and simplify their hybrid infrastructure on the journey to digital innovation.



### FortiOS™ Operating System

FortiOS, Fortinet's leading operating system enable the convergence of high performing networking and security across the Fortinet Security Fabric delivering consistent and context-aware security posture across network endpoint, and clouds. The organically built best of breed capabilities and unified approach allows organizations to run their businesses without compromising performance or protection, supports seamless scalability, and simplifies innovation consumption.

The release of FortiOS 7 dramatically expands the Fortinet Security Fabric's ability to deliver consistent security across hybrid deployment models of Hardware, Software, and Software As-a-Service with SASE and ZTNA, among others.

## SERVICES

### FortiGuard™ Security Services

FortiGuard Labs offer 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™ Services

Fortinet is dedicated to helping our customers succeed, and every year FortiCare services help thousands of organizations get the most from their Fortinet Security Fabric solution. We have more than 1,000 experts to help accelerate technology implementation, provide reliable assistance through advanced support, and offer proactive care to maximize security and performance of Fortinet deployments.



# SPECIFICATIONS

	FORTIGATE 2200E	FORTIGATE 2201E
<b>Interfaces and Modules</b>		
Hardware Accelerated 40 GE QSFP+ Slots		4
Hardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP HA Slots		2
Hardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP Slots		18
Hardware Accelerated GE RJ45 Ports		12
GE RJ45 Management Ports		2
USB Port		1
Console Port		1
Onboard Storage	0	2x 1 TB SSD
Included Transceivers		2x SFP+ (SR 10 GE)
<b>System Performance — Enterprise Traffic Mix</b>		
IPS Throughput <sup>2</sup>		16.5 Gbps
NGFW Throughput <sup>2,4</sup>		13.5 Gbps
Threat Protection Throughput <sup>2,5</sup>		11 Gbps
<b>System Performance and Capacity</b>		
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)		158 / 155 / 100 Gbps
IPv6 Firewall Throughput (1518 / 512 / 86 byte, UDP)		158 / 155 / 100 Gbps
Firewall Latency (64 byte, UDP)		3.09 µs
Firewall Throughput (Packet per Second)		150 Mpps
Concurrent Sessions (TCP)		24 Million
New Sessions/Second (TCP)		500,000
Firewall Policies		100,000
IPsec VPN Throughput (512 byte) <sup>1</sup>		98 Gbps
Gateway-to-Gateway IPsec VPN Tunnels		20,000
Client-to-Gateway IPsec VPN Tunnels		100,000
SSL-VPN Throughput		10 Gbps
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)		30,000
SSL Inspection Throughput (IPS, avg. HTTPS) <sup>3</sup>		17 Gbps
SSL Inspection CPS (IPS, avg. HTTPS) <sup>3</sup>		9,500
SSL Inspection Concurrent Session (IPS, avg. HTTPS) <sup>3</sup>		2.5 Million
Application Control Throughput (HTTP 64K) <sup>2</sup>		52 Gbps
CAPWAP Throughput (HTTP 64K)		60 Gbps
Virtual Domains (Default / Maximum)		10 / 500
Maximum Number of FortiSwitches Supported		196
Maximum Number of FortiAPs (Total / Tunnel)		4,096 / 2,048
Maximum Number of FortiTokens		20,000
High Availability Configurations	Active-Active, Active-Passive, Clustering	

	FORTIGATE 2200E	FORTIGATE 2201E
Dimensions and Power		
Height x Width x Length (inches)	3.5 × 17.44 × 21.89	
Height x Width x Length (mm)	88.9 × 443 × 556	
Weight	40.0 lbs (18.2 kg)	41.4 lbs (18.8 kg)
Form Factor	Rack Mount, 2 RU	
AC Power Supply	100–240V AC, 50/60 Hz	
Power Consumption (Average / Maximum)	408 W / 571 W	412 W / 577 W
Current (Maximum)	12A@100V, 9A@240V	
Heat Dissipation	1948 BTU/h	1968 BTU/h
Redundant Power Supplies	Yes, Hot Swappable	
Operating Environment and Certifications		
Operating Temperature	32–104°F (0–40°C)	
Storage Temperature	-31–158°F (-35–70°C)	
Humidity	10–90% non-condensing	
Noise Level	70 dBA	
Forced Airflow	Front to Back	
Operating Altitude	Up to 7,400 ft (2,250 m)	
Compliance	FCC Part 15 Class A, RCM, VCCI, CE, UL/cUL, CB	
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN, USGv6/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 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.



ORDERING INFORMATION

PRODUCT	SKU	DESCRIPTION
FortiGate 2200E	FG-2200E	4× 40 GE QSFP+ slots, 20× 25 GE SFP28 slots (including 18x ports, 2x HA ports), 14x GE RJ45 ports (including 12x ports, 2x management ports), SPU NP6 and CP9 hardware accelerated, and dual AC power supplies.
FortiGate 2201E	FG-2201E	4× 40 GE QSFP+ slots, 20× 25 GE SFP28 slots (including 18x ports, 2x HA ports), 14x GE RJ45 ports (including 12x ports, 2x management ports), SPU NP6 and CP9 hardware accelerated, and dual AC power supplies, with 2× 1 TB SSD onboard storage.
Optional Accessories	SKU	Description
10 GE SFP+ RJ45 Transceiver Module	FN-TRAN-SFP+GC	10 GE SFP+ RJ45 transceiver module for systems with SFP+ slots.
10 GE SFP+ Transceiver Module, Short Range	FN-TRAN-SFP+SR	10 GE SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.
10 GE SFP+ Transceiver Module, Long Range	FN-TRAN-SFP+LR	10 GE SFP+ transceiver module, long range for all systems with SFP+ and SFP/SFP+ slots.
10 GE SFP+ Transceiver Module, Extended Range	FN-TRAN-SFP+ER	10 GE SFP+ transceiver module, extended range for all systems with SFP+ and SFP/SFP+ slots.
10 GE SFP+ Active Direct Attach Cable, 10m / 32.8 ft	SP-CABLE-ADASFP+	10 GE SFP+ active direct attach cable, 10m / 32.8 ft for all systems with SFP+ and SFP/SFP+ slots.
25 GE SFP28 Transceiver Module, Short Range	FN-TRAN-SFP28-SR	25 GE SFP28 transceiver module, short range for all systems with SFP28 slots.
25 GE SFP28 Transceiver Module, Long Range	FG-TRAN-SFP28-LR	25 GE SFP28 transceiver module, long range for all systems with SFP28 slots
40 GE QSFP+ Transceiver Module, Short Range	FN-TRAN-QSFP+SR	40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.
40 GE QSFP+ Transceivers, Short Range, BiDi	FG-TRAN-QSFP+SR-BIDI	40 GE QSFP+ transceivers, short range BiDi for systems with QSFP+ slots.
40 GE QSFP+ Transceiver Module, Long Range	FN-TRAN-QSFP+LR	40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.
40 GE QSFP+ to 4× 10 GE SFP+ Optical Breakout	FG-TRAN-QSFP+4XSFP	40 GE QSFP+ Parallel Breakout Active Optical Cable with 1m length for all systems with QSFP+ slots.
40 GE QSFP+ Passive Direct Attach Cable	SP-CABLE-FS-QSFP+(1/3/5)	40GE QSFP+ Passive Direct Attach Cable, (1/3/5 m) for Systems with QSFP+ slots.
QSFP+ to 4xSFP+ Optical breakout 5m	FG-TRAN-QSFP+4SFP-5	40 G QSFP+ Parallel Breakout MPO to 4xLC connectors, 5m reach, transceivers not included.
Rack Mount Sliding Rails	SP-FG3040B-RAIL	Rack mount sliding rails for FG-1000C/-DC, FG-1100/1101E, FG-1200D, FG-1500D/-DC, FG-2000E, FG-2200E/2201E, FG-2500E, FG-3040B/-DC, FG-3140B/-DC, FG-3240C/-DC, FG-3000D/-DC, FG-3100D/-DC, FG-3200D/-DC, FG-3300E/3301E, FG-3400/3401E, FG-3600/3601E, FG-3700D/-DC, FG-3700DX, FG-3810D/-DC and FG-3950B/-DC.
AC Power Supply	SP-FG3800D-PS	AC power supply for FG-2200/2201E, FG-3300/3301E, FG-3400/3401E, FG-3600/3601E, FG-3700D, FG-3700D-NEBS, FG-3700DX, FG-3810D and FG-3815D.

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	Unified Threat Protection	Advanced Threat Protection
FortiCare	ASE <sup>1</sup>	24×7	24×7	24×7
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 and Video <sup>2</sup> Filtering Service	•	•	•	
FortiGuard Antispam Service	•	•	•	
FortiGuard Security Rating Service	•	•		
FortiGuard IoT Detection Service	•	•		
FortiGuard Industrial Service	•	•		
FortiConverter Service	•	•		
SD-WAN Orchestrator Entitlement	•			
SD-WAN Cloud Assisted Monitoring	•			
SD-WAN Overlay Controller VPN Service	•			
Fortinet SOCaaS	•			
FortiAnalyzer Cloud	•			
FortiManager Cloud	•			

1. 24×7 plus Advanced Services Ticket Handling    2. Available when running FortiOS 7.0



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