PRODUCT DATASHEET

FortiGate 200G Next-Generation Firewall

AI/ML-Powered NGFW for High-Throughput Networks

Category: Networking — Firewalls

Vendor: Fortinet

Mfr. SKU: FG-200G

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Rack-mount next-generation firewall combining AI-powered security and machine learning with deep network visibility, powered by Fortinet's NP7Lite and CP10 processors for high-throughput inspection.

Key Features at a Glance

Gartner Magic Quadrant Leader

Recognized as a Leader in Gartner's Magic Quadrant for both Network Firewalls and WAN Edge Infrastructure.

NP7Lite and CP10 Hardware Acceleration

Purpose-built network and content processors accelerate firewall, VPN and SSL inspection performance with ultra-low latency.

AI/ML-Powered Deep Visibility

Combines AI-powered security and machine learning to see applications, users and devices before they become threats.

Dynamic Segmentation

VXLAN-based segmentation bridges physical and virtual domains with Layer 4 firewall rules to prevent lateral movement.

Dual Redundant Power Supplies

Built-in dual non-hot-swappable AC power supplies provide 1+1 power redundancy for mission-critical networks.

Universal ZTNA

Automatically controls, verifies and facilitates user access to applications, reducing lateral threats.

Specifications

IPS Throughput	9 Gbps
NGFW Throughput	7 Gbps
Threat Protection Throughput	6 Gbps
Interfaces	8x GE RJ45, 1x MGMT + 1x HA GE RJ45, 8x 5/2.5/GE RJ45, 4x GE SFP, 8x 10GE SFP+/SFP FortiLink slots
Firewall Throughput (1518 / 512 / 64 byte UDP)	39 / 39 / 26.5 Gbps
Concurrent Sessions (TCP)	11 Million
New Sessions/Second (TCP)	400,000
Firewall Policies	10,000
IPsec VPN Throughput (512 byte)	36 Gbps
Onboard Storage	None

Trusted Platform Module (TPM)	Yes
Redundant Power Supplies	Dual non-hot-swappable AC, 1+1 redundancy
Dimensions	44.45 x 432 x 380 mm (1.75 x 17.0 x 15.0 in)
Weight	14.11 lbs (6.4 kg)
Power	100-240V AC, 50/60Hz — 145 W avg / 175 W max
Form Factor	Rack Mount, 1RU
Max FortiSwitches / FortiAPs Supported	64 / 256 (128 tunnel mode)

Benefits

- AI/ML-powered threat detection with deep application visibility
- NP7Lite and CP10 hardware-accelerated performance
- Built-in dual power supply redundancy for mission-critical networks
- Centralized management via FortiManager or FortiGate Cloud
- Fast migration from legacy firewalls via FortiConverter Service
- Access layer security via FortiLink to FortiSwitch and FortiAP

Typical Applications

Mid-size to large enterprise network edge | Data center and campus segmentation | Secure SD-WAN and WAN edge transformation | High-throughput SSL inspection deployments

Common Use Cases

Next-generation firewall with real-time SSL inspection (TLS 1.3) | Dynamic, VXLAN-based network segmentation | Secure SD-WAN with unified security and management framework | High-availability deployments with dual power supplies

Complete Technical Specification

Artificial Intelligence, Machine Learning Security with Deep Visibility

The FortiGate 200G series combines AI-powered security and machine learning to deliver threat protection at scale, giving deeper visibility into applications, users and devices before they become threats. Powered by Fortinet ASIC technology, the 200G series delivers industry-leading threat detection and, through the integrated Security Fabric platform, secure networking that is broad, deep and automated — including web, content and device security, network segmentation and secure SD-WAN.

Dynamic segmentation adapts to any network topology to deliver true end-to-end security from the branch to the data center and across multi-cloud environments, using ultra-scalable, low-latency VXLAN segmentation to bridge physical and virtual domains and prevent lateral movement.

Fortinet ASICs: NP7Lite and CP10

The FortiGate 200G series is powered by Fortinet's NP7Lite network processor, delivering superior firewall performance for IPv4/IPv6, SCTP and multicast traffic with ultra-low latency, plus VPN, CAPWAP and IP tunnel acceleration. The CP10 content processor offloads resource-intensive SSL (including TLS 1.3) decryption and security functions, accelerating pattern matching, application identification and IPS pre-scan/pre-match processing.

FortiGuard AI-Powered Security Services

Infused with the latest threat intelligence from FortiGuard Labs, FortiGuard AI-Powered Security Services protect against modern attack vectors including zero-day and AI-powered attacks. Network and file security uses an industry-leading IPS with over 18,000 signatures and AI/ML-based deep packet inspection; web/DNS security blocks malicious URLs and botnet communications; and AI-powered inline malware prevention delivers sub-second zero-day protection.

Hardware Features

A dedicated Trusted Platform Module (TPM) hardens the appliance by generating, storing and authenticating cryptographic keys in hardware. Dual built-in non-hot-swappable power supplies provide 1+1 redundancy. The signed firmware hardware switch, at its default highest security level, ensures only appropriately validated FortiOS firmware can be loaded.

Full Specifications

Item	Detail
IPS / NGFW / Threat Protection Throughput	9 Gbps / 7 Gbps / 6 Gbps
IPv4/IPv6 Firewall Throughput (1518 / 512 / 64 byte UDP)	39 / 39 / 26.5 Gbps
Firewall Latency (64 byte UDP)	4.36 µs
Firewall Throughput (Packets Per Second)	39.75 Mpps
Concurrent Sessions (TCP)	11 Million
New Sessions/Second (TCP)	400,000
Firewall Policies	10,000
IPsec VPN Throughput (512 byte)	36 Gbps
Gateway-to-Gateway / Client-to-Gateway IPsec Tunnels	2,000 / 16,000
SSL-VPN Throughput	3 Gbps
SSL Inspection Throughput (IPS, avg. HTTPS)	7 Gbps
Interfaces	8x GE RJ45, 1x MGMT + 1x HA GE RJ45, 8x 5/2.5/GE RJ45, 4x GE SFP, 8x 10GE SFP+/SFP FortiLink slots
Onboard Storage	None

Item	Detail
Max FortiSwitches Supported	64
Max FortiAPs (Total / Tunnel)	256 / 128
Input / Power	100-240V AC, 50/60Hz — 145 W avg / 175 W max
Redundant Power Supplies	Dual non-hot-swappable AC, 1+1 redundancy
Dimensions	44.45 x 432 x 380 mm (1.75 x 17.0 x 15.0 in)
Weight	14.11 lbs (6.4 kg)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Compliance	FCC Part 15 Class A, RCM, VCCI, CE, UL/cUL, CB

Why Unified Microsystems?

Unified Microsystems supplies, configures and supports FortiGate next-generation firewalls as part of our network security and managed IT services, handling policy design, SD-WAN rollout and FortiGuard subscription management, backed by regional stock and lead-time guidance.