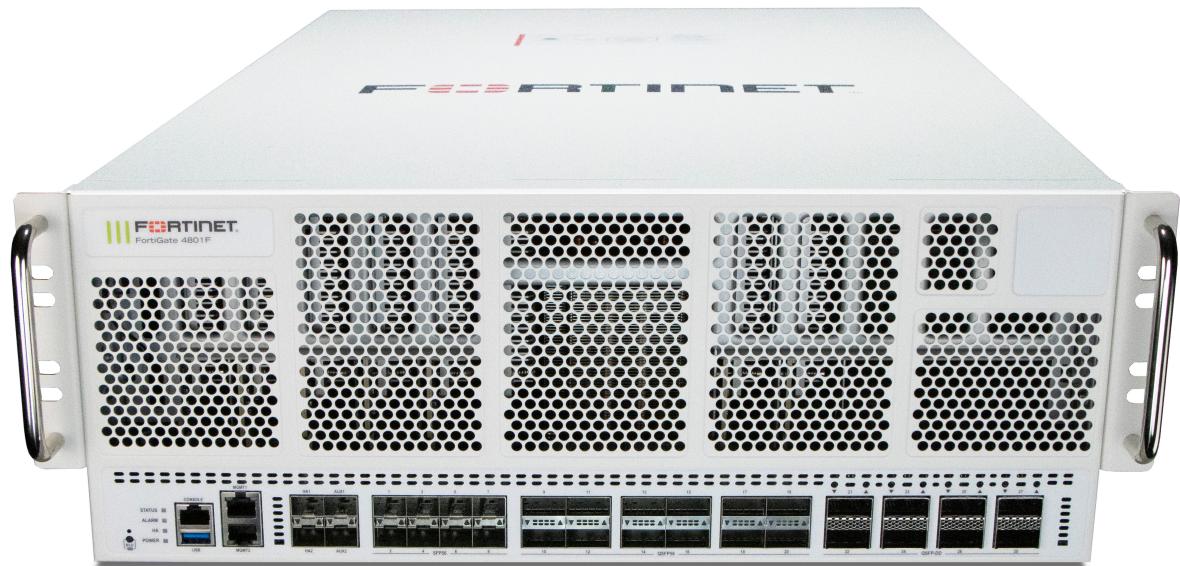


FortiGate 4800F Series



Highlights

Gartner® Magic Quadrant™ Leaders for both Network Firewalls and SD-WAN

Secure networking with FortiOS for converged networking and security

Unparalleled performance with Fortinet's patented SPU and vSPU processors

Enterprise security with consolidated AI / ML-powered FortiGuard services

Hyperscale security to secure any edge at any scale

High Performance with Flexibility

The FortiGate 4800F Series enables organizations to build security-driven networks, forming the foundation of a robust Hybrid Mesh Firewall architecture. This approach weaves security deep into their datacenter and across their hybrid IT environment, protecting any edge at any scale.

Powered by a rich set of AI/ML-based FortiGuard Services and an integrated security fabric platform, the FortiGate 4800F Series delivers coordinated, automated, end-to-end threat protection across all use cases. The industry's first integrated Zero Trust Network Access (ZTNA) enforcement within an NGFW solution, FortiGate 4800F automatically controls, verifies, and facilitates user access to applications, delivering consistent convergence with a seamless user experience across your distributed network.

The industry's first integrated zero-trust network access (ZTNA) enforcement within an NGFW solution, the FortiGate 4800F automatically controls, verifies, and facilitates user access to applications, reducing lateral threats by providing access only to validated users for seamless user experience.

IPS	NGFW	Threat Protection	Interfaces
87 Gbps	77 Gbps	75 Gbps	Multiple 400GE/200GE QSFP-DD, 200GE/100GE/40GE, QSFP56/28, 50GE/25GE/10GE SFP65/28 slots

Use Cases

Next Generation Firewall (NGFW)



- FortiGuard Labs' suite of AI-Powered Security Services, natively integrated with your NGFW, secures web, content, and devices and protects networks from ransomware, malware, zero days, and sophisticated AI-powered cyberattacks
- Real-time SSL inspection (including TLS 1.3) provides full visibility into users, devices, and applications across the attack surface
- Fortinet's patented SPU technology provides industry-leading high-performance protection

Segmentation



- 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
- Ultra-scalable, low latency, VXLAN segmentation bridges physical and virtual domains with Layer 4 firewall rules
- Prevents lateral movement across the network with advanced, coordinated protection from FortiGuard Security Services, detects and prevents known, zero-day, and unknown attacks

Secure SD-WAN



- FortiGate WAN Edge powered by one OS and unified security and management framework and systems transforms and secures WANs
- Delivers superior quality of experience and effective security posture for hybrid working models, SD-Branch, and cloud-first WAN use cases
- Achieve operational efficiencies at any scale through automation, deep analytics, and self-healing

Hyperscale



- Purpose-built SPUs power FortiOS to consolidate networking and security and deliver ultra-scalable secure networks
- Unparalleled ultra-high performance offers the industry's highest number of connections and connections per second performance combined with security-enabled performance to safeguard business-critical applications
- Hardware assisted anti-DDoS prevents volumetric attacks and delivers a strong security posture

Mobile Security for 4G, 5G, and IoT



- SPU-accelerated, high-performance CGNAT and IPv6 migration options, including: NAT44, NAT444, NAT64/DNS64, NAT46 for 4G Gi/sGi, and 5G N6 connectivity and security
- Radio access network security with highly scalable and highest-performing IPsec aggregation and control security gateway
- User plane security enabled by full threat protection and visibility into GTP-U inspection



FortiGuard AI-Powered Security Services

FortiGuard AI-Powered Security Services is part of Fortinet's layered defense and tightly integrated into our FortiGate NGFWs and other products. Infused with the latest threat intelligence from FortiGuard Labs, these services protect organizations against modern attack vectors and threats, including zero-day and sophisticated AI-powered attacks.

Network and file security

Network and file security services protect against network and file-based threats. With over 18,000 signatures, our industry-leading intrusion prevention system (IPS) uses AI/ML models for deep packet/SSL inspection, detecting and blocking malicious content, and applying virtual patches for newly discovered vulnerabilities. Anti-malware protection defends against both known and unknown file-based threats, combining antivirus and sandboxing for multi-layered security. Application control improves security compliance and provides real-time visibility into applications and usage.

Web/DNS security

Web/DNS security services protect against DNS-based attacks, malicious URLs (including those in emails), and botnet communications. DNS filtering blocks the full spectrum of DNS-based attacks while URL filtering uses a database of over 300 million URLs to identify and block malicious links. Meanwhile, IP reputation and anti-botnet services guard against botnet activity and DDoS attacks. FortiGuard Labs blocks over 500 million malicious/phishing/spam URLs weekly, and blocks 32,000 botnet command-and-control attempts every minute, demonstrating the robust protection offered through Fortinet.

SaaS and data security

SaaS and data security services cover key security needs for application use and data protection. This includes data loss prevention to ensure visibility, management, and protection (blocking exfiltration) of data in motion across networks, clouds, and users. Our inline cloud access security broker service protects data in motion, at rest, and in the cloud, enforcing compliance standards and managing account, user, and cloud app usage. Services also assess infrastructure, validate configurations, and highlight risks and vulnerabilities, including IoT device detection and vulnerability correlation.

Zero-Day threat prevention

Zero-day threat prevention is achieved through AI-powered inline malware prevention to analyze file content to identify and block unknown malware in real time, delivering sub-second protection across all NGFWs. The service also integrates the MITRE ATT&CK matrix to speed up investigations. Integrated into FortiGate NGFWs, the service provides comprehensive defense by blocking unknown threats, streamlining incident response, and reducing security overhead.

OT security

With over 1000 virtual patches, 1100+ OT applications, and 3300+ protocol rules, integrated OT security capabilities detect threats targeting OT infrastructure, perform vulnerability correlation, apply virtual patching, and utilize industry-specific protocol decoders for robust defense of OT environments and devices.



Available in



Appliance



Virtual



Hosted



Cloud



Container

FortiOS Everywhere

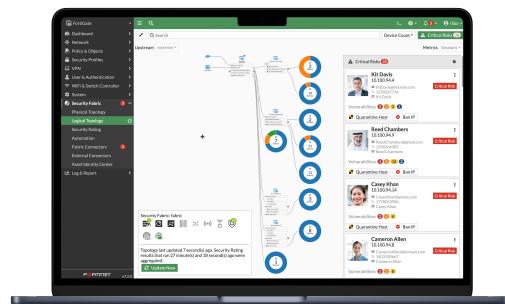
FortiOS, Fortinet's Real-Time Network Security Operating System

FortiOS is the operating system that powers Fortinet Security Fabric platform, enabling enforcement of security policies and holistic visibility across the entire attack surface. FortiOS provides a unified framework for managing and securing networks, cloud-based, hybrid, or a convergence of IT, OT, and IoT. FortiOS enables seamless and efficient interoperation across Fortinet products with consistent and consolidated AI-powered protection across today's hybrid environments.

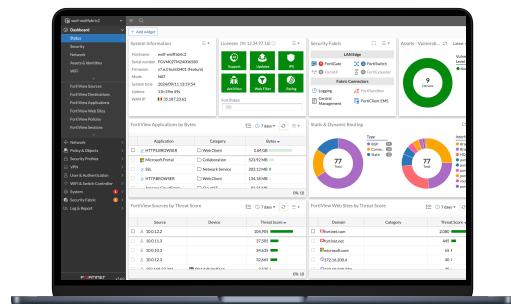
Unlike traditional point solutions, Fortinet adopts a holistic approach to cybersecurity, aiming to reduce complexities, eliminate security silos, and improve operational efficiencies. By consolidating security functions into a single platform, FortiOS simplifies management, reduces costs, and enhances overall security posture. Together, FortiGate and FortiOS create intelligent, adaptive protection to help organizations reduce complexity, eliminate security silos, and optimize user experience.

By integrating generative AI (GenAI), FortiOS further enhances the ability to analyze network traffic and threat intelligence, detects deviations or anomalies more effectively, and provides more precise remediation recommendations, ensuring minimum performance impact without compromising security.

Learn more about what's new in FortiOS. <https://www.fortinet.com/products/fortigate/fortios>



Intuitive easy to use view into the network and endpoint vulnerabilities



Comprehensive view of network performance, security, and system status

Fortinet ASICs: Unrivaled Security, Unprecedented Performance

Powered by the only purpose-built SPU



Traditional firewalls cannot protect against today's content and connection-based threats because they rely on off-the-shelf general-purpose central processing units (CPUs), leaving a dangerous security gap. Fortinet's custom SPUs deliver the power you need to radically increase speed, scale, and efficiency while greatly improving user experience and reducing footprint and power requirements. Fortinet's SPUs deliver up to 520 Gbps of protected throughput to detect emerging threats and block malicious content while ensuring your network security solution does not become a performance bottleneck.

Fortinet ASICs are designed to be energy-efficient, leading to lower power consumption and improved TCO. They deliver industry-leading throughput, handle more traffic and perform security inspections faster, reduce latency for quicker packet processing and minimize network delays.

Fortinet SPUs are designed with integrated security functions like zero trust, SSL, IPS, and VXLAN to name but a few, dramatically improving the performance of these functions that competitors traditionally implement in software.

Network processor NP7

Network processors operate in line to deliver unmatched performance and scalability for critical network functions. Fortinet's breakthrough SPU NP7 works in line with FortiOS functions to deliver:

- Hyperscale firewall, accelerated session setup, and ultra-low latency
- Industry-leading performance for VPN, VXLAN termination, hardware logging, and elephant flows

Content processor CP9

Content processors act as co-processors to offload resource-intensive processing of security functions. The ninth generation of the Fortinet Content Processor, the CP9, accelerates resource-intensive SSL (including TLS 1.3) decryption and security functions while delivering:

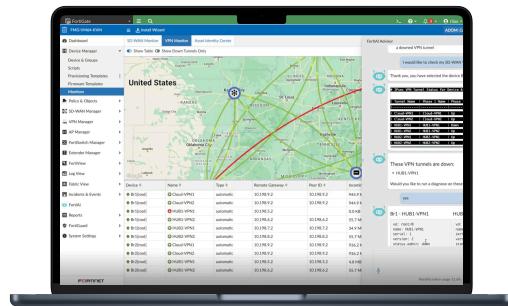
- Pattern matching acceleration and fast inspection of real-time traffic for application identification
- IPS pre-scan/pre-match, signature correlation offload, and accelerated antivirus processing

FortiManager

Centralized management at scale for distributed enterprises



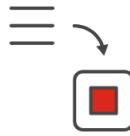
FortiManager, powered by FortiAI, is a centralized management solution for the Fortinet Security Fabric. It streamlines mass provisioning and policy management for FortiGate, FortiGate VM, cloud security, SD-WAN, SD-Branch, FortiSASE, and ZTNA in hybrid environments. Additionally, FortiManager provides real-time monitoring of the entire managed infrastructure and automates network operation workflows. Leveraging GenAI in FortiAI, it further enhances Day 0–1 configurations and provisioning, and Day N troubleshooting and maintenance, unlocking the full potential of the Fortinet Security Fabric and significantly boosting operational efficiency.



GenAI in FortiManager helps manage networks effortlessly—generates configuration and policy scripts, troubleshoots issues, and executes recommended actions.

FortiConverter Service

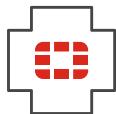
Migration to FortiGate NGFW made easy



The FortiConverter Service provides hassle-free migration to help organizations transition quickly and easily from a wide range of legacy firewalls to FortiGate NGFWs. The service eliminates errors and redundancy by employing best practices with advanced methodologies and automated processes. Organizations can accelerate their network protection with the latest FortiOS technology.

FortiCare Services

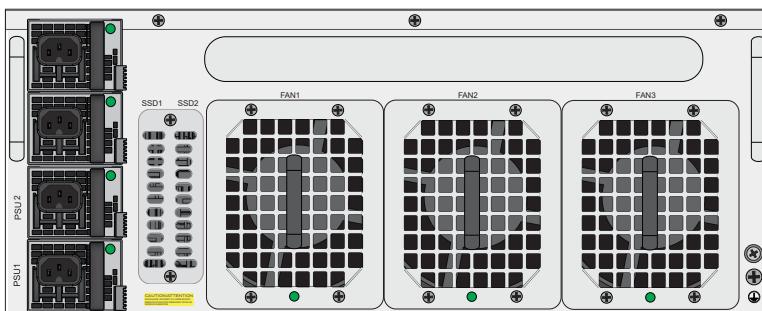
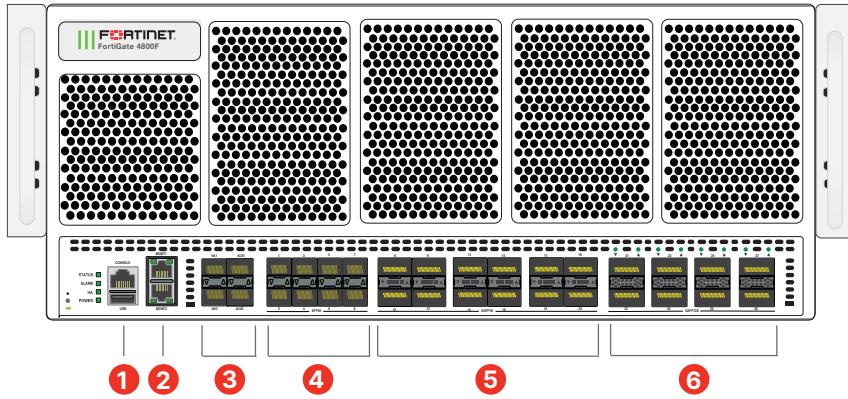
Expertise at your service



Fortinet prioritizes customer success through FortiCare Services, optimizing the Fortinet Security Fabric solution. Our comprehensive life-cycle services include Design, Deploy, Operate, Optimize, and Evolve. The FortiCare Elite, one of the service offerings, provides heightened SLAs and swift issue resolution with a dedicated support team. This advanced support option includes an extended end-of-engineering support of 18 months, providing flexibility and access to the intuitive FortiCare Elite portal for a unified view of device and security health, streamlining operational efficiency and maximizing Fortinet deployment performance.

Hardware

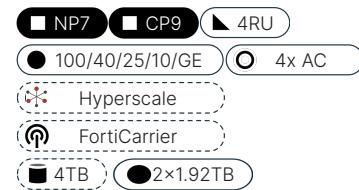
FortiGate 4800F/4801F Series



Interfaces

1. USB Management and Console Port
2. 2 × 10GE/GE RJ45 Management Ports
3. 4× 50GE/25GE/10GE/GE SFP56/SFP28/SFP+/SFP High Availability and Aux Slots
4. 8× 50GE/25GE/10GE/GE SFP56/SFP28/SFP+/SFP Slots
5. 12× 200GE/100GE/40GE QSFP56/QSFP28/QSFP+ Slots
6. 8× 400GE/200GE/100GE/40GE QSFP-DD/QSFP56/QSFP28/QSFP+ Slots

Hardware Features



Hyperscale Firewall License

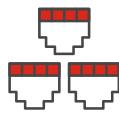


Empower organizations by unlocking further performance boosts with this perpetual license. The Hyperscale Firewall License will enable the hardware acceleration of CGNAT features by utilizing the latest SPU NP7. These features include hardware session setup, firewall session logging, and NAT.



Trusted Platform Module (TPM)

The FortiGate 4800F Series features a dedicated module that hardens physical networking appliances by generating, storing, and authenticating cryptographic keys. Hardware-based security mechanisms protect against malicious software and phishing attacks.

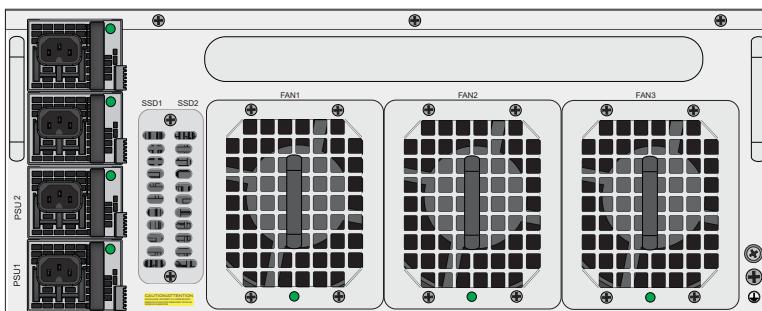
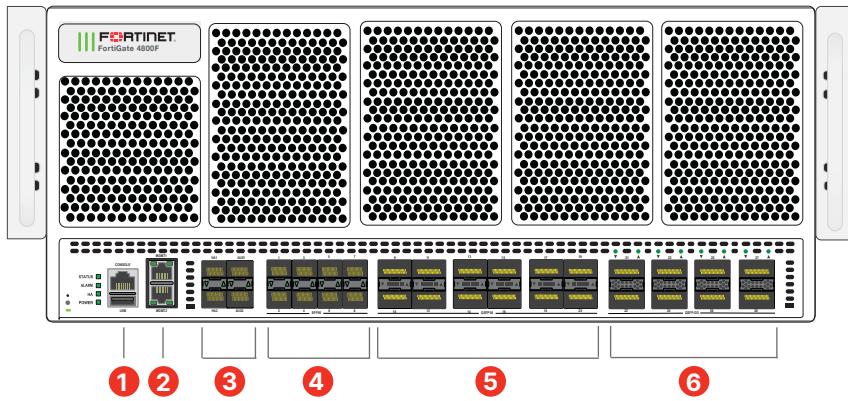


400 GE Connectivity for Network

High-speed connectivity is essential for network security segmentation at the core of data networks. The FortiGate 4800F Series provides multiple 400GE/200GE QSFP-DD slots, simplifying network designs without relying on additional devices to bridge desired connectivity.

Hardware

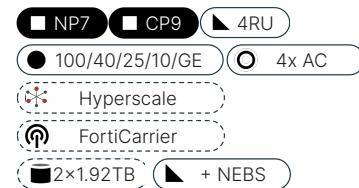
FortiGate 4801F-DC-NEBS and FortiGate 4801F-NEBS



Interfaces

1. USB Management and Console Port
2. 2 × 10GE/GE RJ45 Management Ports
3. 4× 50GE/25GE/10GE/GE SFP56/SFP28/SFP+/SFP High Availability and Aux Slots
4. 8× 50GE/25GE/10GE/GE SFP56/SFP28/SFP+/SFP Slots
5. 12× 200GE/100GE/40GE QSFP56/QSFP28/QSFP+ Slots
6. 8× 400GE/200GE/100GE/40GE QSFP-DD/QSFP56/QSFP28/QSFP+ Slots

Hardware Features



Hyperscale Firewall License

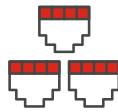


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Specifications

FORTIGATE	4800F/4800F-DC	4801F/4801F-DC	4801F-NEBS/4801F-DC-NEBS
Interfaces and Modules			
Hardware Accelerated 400GE/200GE/100GE/40GE QSFP-DD/QSFP56/QSFP28/QSFP+ Slots	8	8	8
Hardware Accelerated 200GE/100GE/40GE QSFP56/QSFP28/QSFP+ slots	12	12	12
Hardware Accelerated 50GE/25GE/10GE/GE SFP56/SFP28/SFP+/SFP slots	8	8	8
Hardware Accelerated 50GE/25GE/10GE/GE SFP56/SFP28/SFP+/SFP High Availability and Aux Slots	4	4	4
10GE/GE RJ45 Management Ports	2	2	2
USB Port (3.0)	1	1	1
Console Port	1	1	1
Onboard Storage	—	2x 1.92TB SSD	2x 1.92TB SSD
Trusted Platform Module (TPM)	✓	✓	✓
Bluetooth Low Energy (BLE)	✓	✓	✓
Signed Firmware Hardware Switch	—	—	—
Included Transceivers	2x SFP+ (SR 10 GE)	2x SFP+ (SR 10 GE)	2x SFP+ (SR 10 GE)
System Performance — Enterprise Traffic Mix			
IPS Throughput ²	87 Gbps		
NGFW Throughput ^{2,4}	77 Gbps		
Threat Protection Throughput ^{2,5}	75 Gbps		
System Performance and Capacity			
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	3.1 / 3.1 / 0.93 Tbps		
IPv6 Firewall Throughput (1518 / 512 / 86 byte, UDP)	3.1 / 3.1 / 0.93 Tbps		
Firewall Latency (64 byte, UDP)	3.6 µs		
Firewall Throughput (Packet per Second)	1396 Mpps		
Concurrent Sessions (TCP)	280 Million / 1.8 Billion *		
New Sessions/Second (TCP)	915 000 / 25 Million *		
Firewall Policies	200 000		
IPsec VPN Throughput (512 byte) ¹	800 Gbps		
Gateway-to-Gateway IPsec VPN Tunnels	40 000		
Client-to-Gateway IPsec VPN Tunnels	200 000		
SSL-VPN Throughput ⁶	18 Gbps		
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	30 000		
SSL Inspection Throughput (IPS, avg. HTTPS) ³	63 Gbps		
SSL Inspection CPS (IPS, avg. HTTPS) ³	60 000		
SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³	30 Million		
Application Control Throughput (HTTP 64K) ²	180 Gbps		
CAPWAP Throughput (HTTP 64K)	112 Gbps		
Virtual Domains (Default / Maximum)	10 / 500		
Maximum Number of FortiSwitches Supported	300		
Maximum Number of FortiAPs (Total / Tunnel)	8192 / 4096		
Maximum Number of FortiTokens	20 000		
High Availability Configurations	Active-Active, Active-Passive, Clustering		

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.

⁶ Uses RSA-2048 certificate.



Specifications

FORTIGATE	4800F/4800F-DC	4801F/4801F-DC	4801F-NEBS/4801F-DC-NEBS
Dimensions and Power			
Height x Width x Length (inches)		6.89 x 17.13 x 26.10	
Height x Width x Length (mm)		175 x 435 x 663	
Weight	90.83 lbs (41.2 kg)	90.83 lbs (41.2 kg)	93.03 lbs (42.2 kg)
Form Factor (supports EIA/non-EIA standards)		Rack Mount, 4 RU	
AC Power Supply		200–240V AC, 50/60 Hz	
Power Consumption (Average / Maximum)	1602 W / 1918.2 W	1622 W / 1938.2 W	1528.8W/ 1964.9W
AC Current (Maximum)	7.99A@240VAC	8.08A@240VAC	40.94A@~48VDC
Heat Dissipation	6544.9 BTU/h	6613.14 BTU/h	6700.31 / 6711.31 BTU/h
DC Power Input		-72V to -40V	
DC Current (Maximum)		40.94A@48VDC	
Redundant Power Supplies		Hot Swappable, 2+2	
Power Supply Efficiency Rating		80Plus Compliant	
Fan Tray		Hot Swappable	
Operating Environment and Certifications			
Operating Temperature		32°F to 122°F (0°C to 50°C)	
Storage Temperature		-31°F to 158°F (-35°C to 70°C)	
Humidity		10% to 90% non-condensing	
Noise Level		63.794 dBA	
Forced Airflow		Front to Back	
Operating Altitude		Up to 10 000 ft (3048 m)	
Compliance		FCC Part 15 Class A, RCM, VCCI, CE, UL/cUL, CB	
Certifications		USGv6/IPv6	

* Requires Hyperscale Firewall License

Note: All performance values are "up to" and vary depending on system configuration.

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Subscriptions

Service Category	Service Offering	A-la-carte	Bundles		
			Enterprise Protection	Unified Threat Protection	Advanced Threat Protection
FortiGuard Security Services	IPS — IPS, Malicious/Botnet URLs	•	•	•	•
	Anti-Malware Protection (AMP)—AV, Botnet Domains, Mobile Malware, Virus Outbreak Protection, Content Disarm and Reconstruct ³ , AI-based Heuristic AV, FortiGate Cloud Sandbox	•	•	•	•
	URL, DNS and Video Filtering — URL, DNS and Video ³ Filtering, Malicious Certificate	•	•	•	•
	Anti-Spam		•	•	•
	AI-based Inline Malware Prevention ³	•	•	•	•
	Data Loss Prevention (DLP) ¹	•	•	•	•
	Attack Surface Security — IoT Device Detection, IoT Vulnerability Correlation and Virtual Patching, Security Rating, Outbreak Check	•	•	•	•
	OT Security—OT Device Detection, OT vulnerability correlation and Virtual Patching, OT Application Control and IPS ¹	•	•	•	•
	Application Control		-----included with FortiCare Subscription-----		
	Inline CASB ³		-----included with FortiCare Subscription-----		
SD-WAN and SASE Services	SD-WAN Underlay Bandwidth and Quality Monitoring	Models up to FG/FWF-60F series			
	SD-WAN Underlay and Application Monitoring Service	FG-70F series and above			
	SD-WAN Overlay-as-a-Service	•			
	SD-WAN Connector for FortiSASE Secure Private Access	•			
	SASE expansion for SD-WAN (SD-WAN SPA Connector license plus FortiSASE starter kit for n* users) ²	Selected models only ²			
	SASE connector for FortiSASE Secure Edge Management (with 10Mbps Bandwidth)	Desktop models only			
NOC and SOC Services	FortiConverter Service for one time configuration conversion	•	•	•	•
	Managed FortiGate Service—available 24x7, with Fortinet NOC experts performing device setup, network, and policy change management	•	•	•	•
	FortiGate Cloud—Management, Analysis, and One Year Log Retention	•	•	•	•
	FortiManager Cloud	•	•	•	•
	FortiAnalyzer Cloud	•	•	•	•
Hardware and Software Support	FortiGuard SOaaS—24x7 cloud-based managed log monitoring, incident triage, and SOC escalation service	•	•	•	•
	FortiCare Essentials	Desktop models only			
	FortiCare Premium	•	•	•	•
Base Services	FortiCare Elite	•	•	•	•
	Device/OS Detection, GeolPs, Trusted CA Certificates, Internet Services and Botnet IPs, DDNS (v4/v6), Local Protection, PSIRT Check, Anti-Phishing		-----included with FortiCare Subscription-----		

1. Full features available when running FortiOS 7.4.1.

2. See the FortiSASE Ordering Guide for supported models and their associated number of user licenses.

3. Not available for FortiGate/FortiWiFi 40F, 60E, 60F, 80E, and 90E series from 7.4.4 onwards. Not available for FortiGate/FortiWiFi 30G and 50G series in any OS build.



FortiGuard Bundles

FortiGuard AI-Powered Security Bundles provide a comprehensive and meticulously curated selection of security services to combat known, unknown, zero-day, and emerging AI-based threats. These services are designed to prevent malicious content from breaching your defenses, protect against web-based threats, secure devices throughout IT/OT/IoT environments, and ensure the safety of applications, users, and data. All bundles include FortiCare Premium Services featuring 24x7x365 availability, one-hour response for critical issues, and next-business-day response for noncritical matters.

Ordering Information

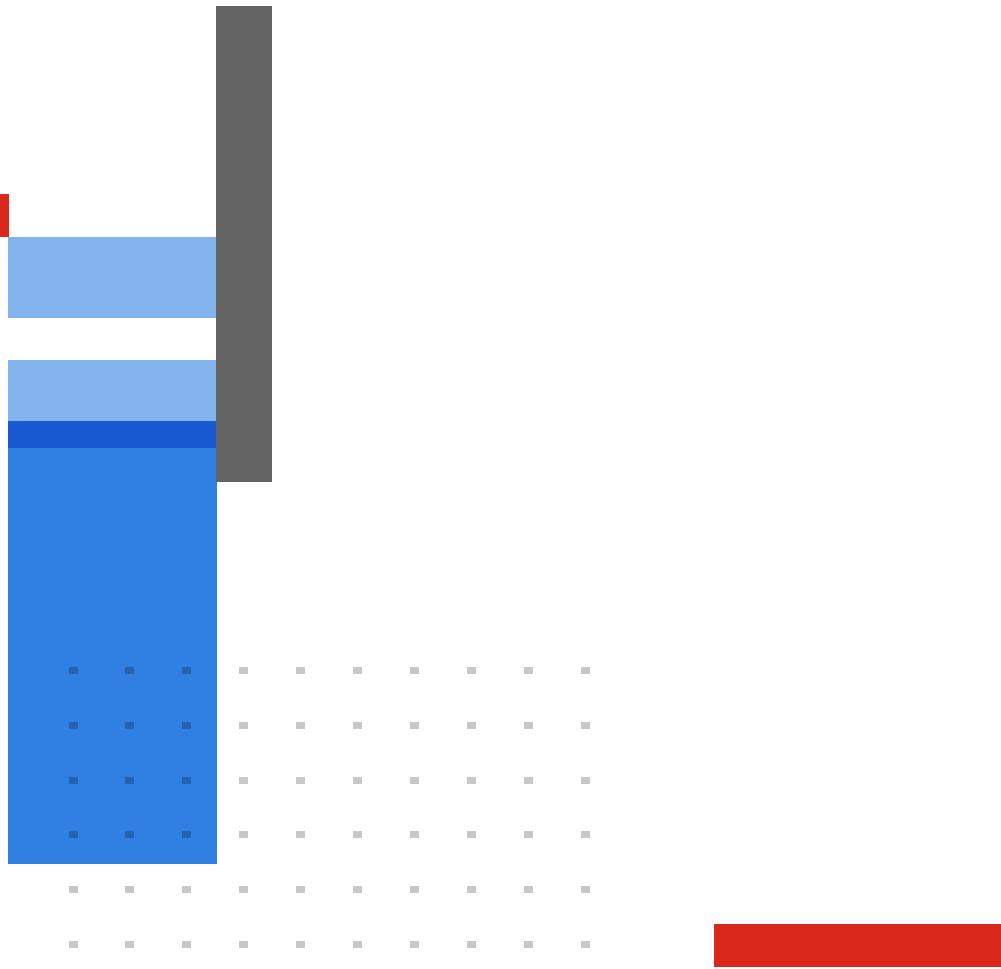
Product	SKU	Description
FortiGate 4800F	FG-4800F	8x 400GE/200GE QSFP-DD slots, 12x 200GE/100GE/40GE QSFP56/28 slots and 12x 50GE/25GE/10GE SFP56/28 slots, 2 x 10GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, and 4 AC power supplies.
FortiGate 4800F-DC	FG-4800F-DC	8x 400GE/200GE QSFP-DD slots, 12x 200GE/100GE/40GE QSFP56/28 slots and 12x 50GE/25GE/10GE SFP56/28 slots, 2 x 10GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, and 4 DC power supplies.
FortiGate 4801F	FG-4801F	8x 400GE/200GE QSFP-DD slots, 12x 200GE/100GE/40GE QSFP56/28 slots and 12x 50GE/25GE/10GE SFP56/28 slots, 2 x 10GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, 2x 1.92TB Storage and 4 AC power supplies.
FortiGate 4801F-DC	FG-4801F-DC	8x 400GE/200GE QSFP-DD slots, 12x 200GE/100GE/40GE QSFP56/28 slots and 12x 50GE/25GE/10GE SFP56/28 slots, 2 x 10GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, 2x 1.92TB Storage and 4x DC power supplies.
FortiGate 4801F-NEBS	FG-4801F-NEBS	8x 400GE/200GE QSFP-DD slots, 12x 200GE/100GE/40GE QSFP56/28 slots and 12x 50GE/25GE/10GE SFP56/28 slots, 2 x 10GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, 2x 1.92TB Storage and 4x AC power supplies, NEBS Level 3 compliant.
FortiGate 4801F-DC-NEBS	FG-4801F-DC-NEBS	8x 400GE/200GE QSFP-DD slots, 12x 200GE/100GE/40GE QSFP56/28 slots and 12x 50GE/25GE/10GE SFP56/28 slots, 2 x 10GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, 2x 1.92TB Storage and 4x DC power supplies.
Hyperscale Firewall License	LIC-FGT-HYPSC	Hyperscale Firewall License for FortiGate FG-4000F Series for hardware session setup acceleration and logging.
Optional Accessories/Spares	SKU	Description
AC Power Supply	SP-FG4000F-PS	2000W AC power supply for 4000F and 6000F series, does not include SP-FGPCORC15-XX power cord.
AC Power Cord	SP-FGPCORC15-XX	6 ft power cord, 15A125V XXX, PSE BLACK ROHS-6, for FG-3900E, 4000F, 6000F, and 7000E/F Series.
DC Power Supply	SP-FG4000F-DC-PS	DC power supply for FG-4200F-DC/4201F-DC, FG-4400F-DC/4401F-DC, FG-4800F-DC/4801F-DC and FG-6000F-DC, comes with 3m DC cable.
Fan Tray	SP-FG4K6K-FAN	Spare Hotswappable Fan Module for FG-420xF/440xF/480xF/6000F.
Transceiver Modules	SKU	Description
1 GE SFP LX Transceiver Module	FN-TRAN-LX	1 GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.
1 GE SFP RJ45 Transceiver Module	FN-TRAN-GC	1 GE SFP RJ45 transceiver module for all systems with SFP and SFP/SFP+ slots.
1 GE SFP SX Transceiver Module	FN-TRAN-SX	1 GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.
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.
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	FN-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+ Transceiver Module, Short Range BiDi	FG-TRAN-QSFP+SR-BIDI	40 GE QSFP+ transceiver module, short range BiDi for all 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.
100 GE QSFP28 Transceiver Module	FN-TRAN-QSFP28-DR	100 GE QSFP28 transceiver module, single channel single-mode fiber, 100GBase-DR for systems with QSFP28 slots.
100 GE QSFP28 Transceiver Module, Long Range	FN-TRAN-QSFP28-LR	100 GE QSFP28 transceivers, 4 channel parallel fiber, long range for all systems with QSFP28 slots.
100 GE QSFP28 Transceiver Module, Short Range	FN-TRAN-QSFP28-SR	100 GE QSFP28 transceivers, 4 channel parallel fiber, short range for all systems with QSFP28 slots.
100 GE QSFP28 Transceiver Module, 100m Range	FG-TRAN-QSFP28-SR4	100 GE QSFP28 transceiver module, 100m range, MMF, for systems with QSFP28 slots.
100 GE QSFP28 Transceiver Module, CWDMD4	FN-TRAN-QSFP28-CWDMD4	100 GE QSFP28 transceivers, LC connectors, 2KM for all systems with QSFP28 slots.
200 GE QSFP56 Transceiver Module, 2km Range	FN-TRAN-QSFP56-FR4	200 GE QSFP56 transceiver module, 2km range, SMF, for systems with QSFP56 slots.
400 GE QSFPDD Transceiver Module, 10km range	FN-TRAN-QSFPDD-LR4	400 GE QSFPDD transceiver module, 10km range, SMF, for systems with QSFP-DD slots.
400 GE QSFPDD Transceiver Module, 2km range	FN-TRAN-QSFPDD-FR4	400 GE QSFPDD transceiver module, 2km range, SMF, for systems with QSFP-DD slots.
400 GE QSFPDD Transceiver Module, 4 channel parallel fiber	FN-TRAN-QSFPDD-DR4	400 GE QSFPDD transceiver module, 4 channel parallel fiber, short range, for systems with QSFP-DD slots.
400 GE QSFPDD Transceiver Module, 8 channel parallel fiber	FN-TRAN-QSFPDD-SR8	400 GE QSFPDD transceiver module, 8 channel parallel fiber, short range, for systems with QSFP-DD slots.
Cables	SKU	Description
400 GE QSFPDD Passive Direct Attach Cable, 1m	FN-CABLE-QSFPDD-DAC-01	400 GE QSFPDD passive Direct Attach Cable, 1m, for systems with QSFP-DD slots.
400 GE QSFPDD Passive Direct Attach Cable, 2.5m	FN-CABLE-QSFPDD-DAC-B5	400 GE QSFPDD passive Direct Attach Cable, 2.5m, for systems with QSFP-DD slots.

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