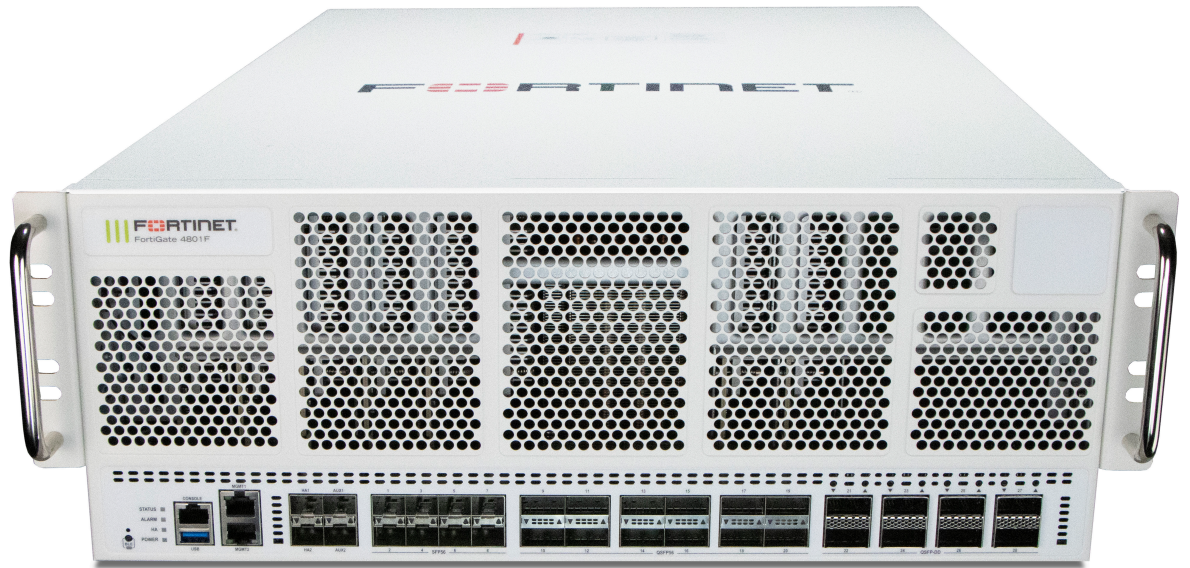


# FortiGate 4800F Series

FG-4800F, FG-4800F-DC, FG-4801F, and FG-4801F-DC



## Highlights

**Gartner Magic Quadrant Leader** for both Network Firewalls and SD-WAN.

**Security-Driven Networking** FortiOS delivers converged networking and security.

**Unparalleled Performance** with Fortinet's patented / SPU / 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 that can weave security deep into their datacenter and across their hybrid IT architecture to protect 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.

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



Available in



Appliance



Virtual



Hosted



Cloud



Container

## FortiOS Everywhere

### FortiOS, Fortinet's Advanced Operating System

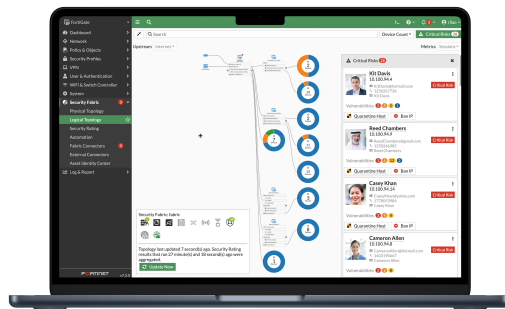
FortiOS enables the convergence of high performing networking and security across the Fortinet Security Fabric. Because it can be deployed anywhere, it delivers consistent and context-aware security posture across network, endpoint, and multi-cloud environments.

FortiOS powers all FortiGate deployments whether a physical or virtual device, as a container, or as a cloud service. This universal deployment model enables the consolidation of many technologies and use cases into a simplified, single policy and management framework. Its organically built best-of-breed capabilities, unified operating system, and ultra-scalability allows organizations to protect all edges, simplify operations, and run their business without compromising performance or protection.

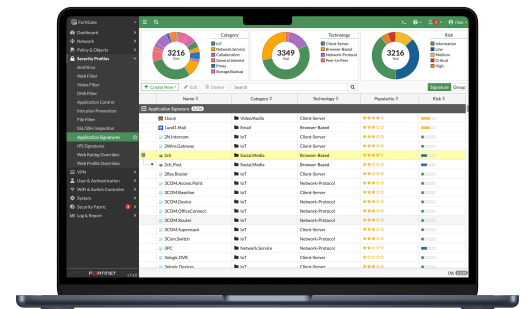
FortiOS dramatically expands the Fortinet Security Fabric's ability to deliver advanced AI/ML-powered services, inline advanced sandbox detection, integrated ZTNA enforcement, and more, provides protection across hybrid deployment models for hardware, software, and Software-as-a-Service with SASE.

FortiOS expands visibility and control, ensures the consistent deployment and enforcement of security policies, and enables centralized management across large-scale networks with the following key attributes:

- Interactive drill-down and topology viewers that display real-time status
- On-click remediation that provides accurate and quick protection against threats and abuses
- Unique threat score system correlates weighted threats with users to prioritize investigations



*Intuitive easy to use view into the network and endpoint vulnerabilities*



*Visibility with FOS Application Signatures*

### FortiConverter Service

FortiConverter Service provides hassle-free migration to help organizations transition from a wide range of legacy firewalls to FortiGate Next-Generation Firewalls quickly and easily. 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.



## FortiGuard Services

### Network and File Security

Services provide protection against network-based and file-based threats. This consists of Intrusion Prevention (IPS) which uses AI/M models to perform deep packet/SSL inspection to detect and stop malicious content, and apply virtual patching when a new vulnerability is discovered. It also includes Anti-Malware for defense against known and unknown file-based threats. Anti-malware services span both antivirus and file sandboxing to provide multi-layered protection and are enhanced in real-time with threat intelligence from FortiGuard Labs. Application Control enhances security compliance and offers real-time application visibility.

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### Web / DNS Security

Services provide protection against web-based threats including DNS-based threats, malicious URLs (including even in emails), and botnet/command and control communications. DNS filtering provides full visibility into DNS traffic while blocking high-risk domains, and protects against DNS tunneling, DNS infiltration, C2 server ID and Domain Generation Algorithms (DGA). URL filtering leverages a database of 300M+ URLs to identify and block links to malicious sites and payloads. IP Reputation and anti-botnet services prevent botnet communications, and block DDoS attacks from known sources.

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### SaaS and Data Security

Services address numerous security use cases across application usage as well as overall data security. This consists of Data Leak Prevention (DLP) which ensures data visibility, management and protection (including blocking exfiltration) across networks, clouds, and users, while simplifying compliance and privacy implementations. Separately, our Inline Cloud Access Security Broker (CASB) service protects data in motion, at rest, and in the cloud. The service enforces major compliance standards and manages account, user and cloud application usage. Services also include capabilities designed to continually assess your infrastructure, validate that configurations are working effectively and secure, and generate awareness of risks and vulnerabilities that could impact business operations. This includes coverage across IoT devices for both IoT detection and IoT vulnerability correlation.

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### Zero-Day Threat Prevention

Zero-day threat prevention entails Fortinet's AI-based inline malware prevention, our most advanced sandbox service, to analyze and block unknown files in real-time, offering sub-second protection against zero-day and sophisticated threats across all NGFWs. The service also has a built-in MITRE ATT&CK® matrix to accelerate investigations. The service focuses on comprehensive defense by blocking unknown threats while streamlining incident response efforts and reducing security overhead.

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### OT Security

The service provides OT detection, OT vulnerability correlation, virtual patching, OT signatures, and industry-specific protocol decoders for overall robust defense of OT environments and devices.



## Secure Any Edge at Any Scale



### Powered by Security Processing Unit (SPU)

Traditional firewalls cannot protect against today's content- and connection-based threats because they rely on off-the-shelf hardware and general-purpose CPUs, causing a dangerous performance gap. Fortinet's custom SPU processors deliver the power you need—up to 520Gbps—to detect emerging threats and block malicious content while ensuring your network security solution does not become a performance bottleneck.

### ASIC Advantage



#### Network Processor 7 NP7

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

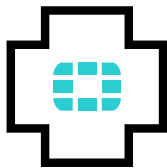
- Hyperscale firewall, accelerated session setup, and ultra-low latency
- Industry-leading performance for VPN, VXLAN termination, hardware logging, and elephant flows



#### Content Processor 9 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



### FortiCare Services

Fortinet is dedicated to helping our customers succeed, and every year FortiCare Services help thousands of organizations get the most from our Fortinet Security Fabric solution. Our lifecycle portfolio offers Design, Deploy, Operate, Optimize, and Evolve services. Operate services offer device-level FortiCare Elite service with enhanced SLAs to meet our customer's operational and availability needs. In addition, our customized account-level services provide rapid incident resolution and offer proactive care to maximize the security and performance of Fortinet deployments.

## 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 and sophisticated 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 (Security Processing Unit) 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 datacenter 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 work-from-anywhere 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 Security-Driven 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 strong security posture



### Mobile Security for 4G, 5G, and IoT

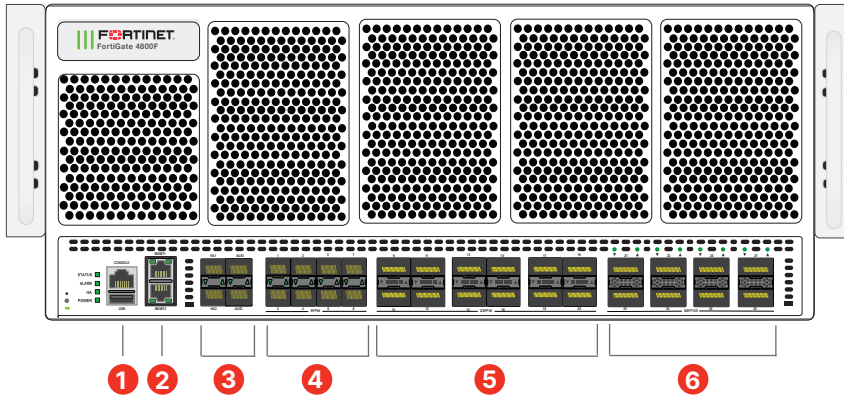
- SPU-accelerated, high performance CGNAT and IPv6 migration options, including: NAT44, NAT444, NAT64/ DNS64, NAT46 for 4G Gi/sGi, and 5G N6 connectivity and security
- RAN Access Security with highly scalable and highest-performing IPsec aggregation and control Security Gateway (SecGW)
- User plane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

### Datacenter Deployment (NGFW, IPS, Segmentation)



## Hardware

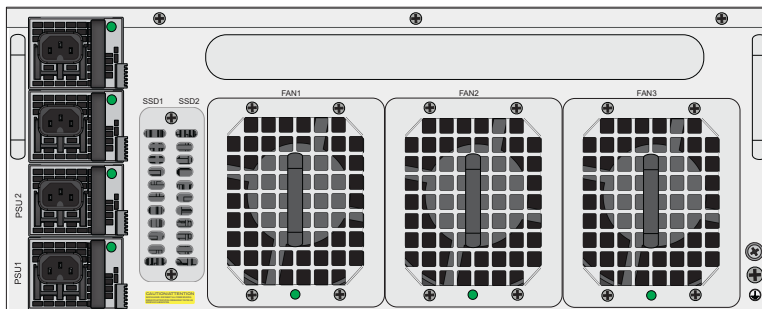
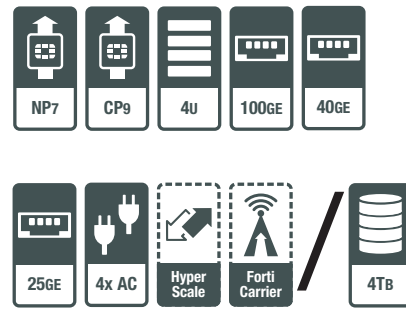
### FortiGate 4800F Series



### Interfaces

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





## Specifications

FORTIGATE	4800F/4800F-DC	4801F/4801F-DC
<b>Interfaces and Modules</b>		
Hardware Accelerated 400GE/200GE QSFP-DD slots	8	
Hardware Accelerated 200GE/100GE/40GE QSFP56/QSFP28/SFP28 slots	12	
Hardware Accelerated 50GE/25GE/10GE/GE SFP56/28/SFP+/SFP slots	8	
Hardware Accelerated 50GE/25GE/10GE/GE SFP56/28/SFP+/SFP HA/AUX slots	4	
10GE/GE RJ45 Management Ports	2	
USB Port (3.0)	1	
Console Port	1	
Onboard Storage	—	2x 2 TB SSD
Trusted Platform Module (TPM)		Yes
Included Transceivers	2x SFP+ (SR 10 GE)	
<b>System Performance — Enterprise Traffic Mix</b>		
IPS Throughput <sup>2</sup>	87 Gbps	
NGFW Throughput <sup>2,4</sup>	77 Gbps	
Threat Protection Throughput <sup>2,5</sup>	75 Gbps	
<b>System Performance and Capacity</b>		
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) <sup>1</sup>	800 Gbps	
Gateway-to-Gateway IPsec VPN Tunnels	40 000	
Client-to-Gateway IPsec VPN Tunnels	200 000	
SSL-VPN Throughput <sup>6</sup>	18 Gbps	
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	30 000	
SSL Inspection Throughput (IPS, avg. HTTPS) <sup>3</sup>	63 Gbps	
SSL Inspection CPS (IPS, avg. HTTPS) <sup>3</sup>	60 000	
SSL Inspection Concurrent Session (IPS, avg. HTTPS) <sup>3</sup>	30 Million	
Application Control Throughput (HTTP 64K) <sup>2</sup>	180 Gbps	
CAPWAP Throughput (HTTP 64K)	112 Gbps	
Virtual Domains (Default / Maximum)	10 / 500	

FORTIGATE	4800F/4800F-DC	4801F/4801F-DC
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	
<b>Dimensions and Power</b>		
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)	
Form Factor (supports EIA/non-EIA standards)	Rack Mount, 4 RU	
AC Power Supply	100–240V AC, 50/60 Hz	
Power Consumption (Average / Maximum)	1602 W / 1918.2 W	1622 W / 1938.2 W
AC Current (Maximum)	7.99A@240VAC	8.08A@240VAC
Heat Dissipation	6544.9 BTU/h	6613.14 BTU/h
DC Power Input	-72V to -40V	
DC Current (Maximum)	40.94A@48VDC	
Redundant Power Supplies	Yes, Hot Swappable, 2+2	
Power Supply Efficiency Rating	80Plus Compliant	
Fan Tray	Hot Swappable	
<b>Operating Environment and Certifications</b>		
Operating Temperature	32°–104°F (0°–40°C)	
Storage Temperature	-31°–158°F (-35°–70°C)	
Humidity	20%–90% non-condensing	
Noise Level	68.9 dBA	
Forced Airflow	Front to Back	
Operating Altitude	Up to 7400 ft (2250 m)**	
Compliance	FCC Part 15 Class A, RCM, VCCI, CE, UL/cUL, CB	
Certifications	USGv6/IPv6	

\* Requires Hyperscale Firewall License

\*\* Operating at maximum temperature derates 1.5°C per 1000 ft (305 m)

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

<sup>1</sup> IPsec VPN performance test uses AES256-SHA256.

<sup>2</sup> IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.

<sup>3</sup> SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.

<sup>4</sup> NGFW performance is measured with Firewall, IPS and Application Control enabled.

<sup>5</sup> Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.

<sup>6</sup> Uses RSA-2048 certificate.





## Ordering Information

Product	SKU	Description
FortiGate 4800F	FG-4800F	8× 400GE/200GE QSFP-DD slots, 12× 200GE/100GE/40GE QSFP56/28 slots and 12× 50GE/25GE/10GE SFP56/28 slots, 2 × 10GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, and 4 AC power supplies.
FortiGate 4800F-DC	FG-4800F-DC	
FortiGate 4801F	FG-4801F	8× 400GE/200GE QSFP-DD slots, 12× 200GE/100GE/40GE QSFP56/28 slots and 12× 50GE/25GE/10GE SFP56/28 slots, 2 × 10GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, 2× 1.92TB Storage and 4 AC power supplies
FortiGate 4801F-DC	FG-4801F-DC	
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.
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.
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+ 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 Transceivers, 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 Transceivers, 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 Transceivers, CWDM4	FN-TRAN-QSFP28-CWDM4	100 GE QSFP28 transceivers, LC connectors, 2KM for all systems with QSFP28 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.
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.



## Subscriptions

Service Category	Service Offering	A-la-carte	Bundles		
			Enterprise Protection	Unified Threat Protection	Advanced Threat Protection
FortiGuard Security Services	IPS Service	•	•	•	•
	Anti-Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•
	URL, DNS & Video Filtering Service	•	•	•	
	Anti-Spam		•	•	
	AI-based Inline Malware Prevention Service	•	•		
	Data Loss Prevention Service <sup>1</sup>	•	•		
	OT Security Service (OT Detection, OT Vulnerability correlation, Virtual Patching, OT Signature / Protocol Decoders) <sup>1</sup>	•			
	Application Control			included with FortiCare Subscription	
	CASB SaaS Control			included with FortiCare Subscription	
SD-WAN and SASE Services	SD-WAN Underlay Bandwidth and Quality Monitoring Service	•			
	SD-WAN Overlay-as-a-Service for SaaS-based overlay network provisioning	•			
	SD-WAN Connector for FortiSASE Secure Private Access	•			
	FortiSASE subscription including cloud management and 10Mbps bandwidth license <sup>2</sup>	•			
NOC and SOC Services	FortiGuard Attack Surface Security Service (IoT Detection, IoT Vulnerability Correlation, and Security Rating Updates) <sup>1</sup>	•	•		
	FortiConverter Service	•	•		
	Managed FortiGate Service	•			
	FortiGate Cloud (SMB Logging + Cloud Management)	•			
	FortiAnalyzer Cloud	•			
	FortiAnalyzer Cloud with SOCaas	•			
	FortiGuard SOCaas	•			
Hardware and Software Support	FortiCare Essentials	•			
	FortiCare Premium	•	•	•	•
	FortiCare Elite	•			
Base Services	Internet Service (SaaS) DB Updates				
	GeoIP DB Updates				included with FortiCare Subscription
	Device/OS Detection Signatures				
	Trusted Certificate DB Updates				
	DDNS (v4/v6) Service				

1. Full features available when running FortiOS 7.4.1  
2. Desktop Models only



### FortiGuard Bundles

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.

### FortiCare Elite

FortiCare Elite offers enhanced SLAs and quick issue resolution through a dedicated support team. It provides single-touch ticket handling, extended Extended End-of-Engineering-Support for 18 months, and access to the new FortiCare Elite Portal for a unified view of device and security health.



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## Fortinet CSR Policy

Fortinet is committed to driving progress and sustainability for all through cybersecurity, with respect for human rights and ethical business practices, making possible a digital world you can always trust. You represent and warrant to Fortinet that you will not use Fortinet's products and services to engage in, or support in any way, violations or abuses of human rights, including those involving illegal censorship, surveillance, detention, or excessive use of force. Users of Fortinet products are required to comply with the [Fortinet EULA](#) and report any suspected violations of the EULA via the procedures outlined in the [Fortinet Whistleblower Policy](#).



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