

# FortiGate 4400F Series

FG-4400F/-DC and 4401F/-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 Al / ML-powered FortiGuard Services.

Hyperscale Security to secure any edge at any scale.

# **High Performance with Flexibility**

The FortiGate 4400F 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 4400F 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 4400F automatically controls, verifies, and facilitates user access to applications delivering consistent convergence with a seamless user experience.

IPS	NGFW	Threat Protection	Interfaces
94 Gbps	82 Gbps	75 Gbps	Multiple GE RJ45, 25 GE SFP28 / 10 GE SFP+ / GE SFP and 100 GE QSFP28 / 40 GE QSFP+ slots   DC Variants



Available in



Appliance



Virtual





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 multilayered protection and are enhanced in real-time with threat intelligence from FortiGuard Labs. Application Control enhances security compliance and offers real-time application visibility.

#### 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.

#### 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.

#### **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 subsecond 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.

#### **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

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Intuitive view and clear insights into network security posture with FortiManager

# Centralized Network and Security Management at Scale

FortiManager, the centralized management solution from Fortinet, enables integrated management of the Fortinet security fabric, including devices like FortiGate, FortiSwitch, and FortiAP. It simplifies and automates the oversight of network and security functions across diverse environments, serving as the fundamental component for deploying Hybrid Mesh Firewalls.

## **Use Cases**

#### Next Generation Firewall (NGFW)

- FortiGuard Labs' suite of Al-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-any where 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 4400F Series



### Interfaces

- 1. USB Management and Console Port
- 2. 2 x GE RJ45 Management Ports
- 3. 2 × 25 GE SFP28/ 10 GE SFP+/ GE SFP High Availability Slots
- 4. 2 × 25 GE SFP28/ 10 GE SFP+/ GE SFP AUX Slots
- 5. 16 × 25 GE SFP28 / 10 GE SFP+/ GE SFP Slots
- 6. 12 × 100 GE QSFP28/ 40 GE QSFP+ Slots

#### **Hardware Features**



#### Hyperscale Firewall License

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This perpetual license empowers organizations by unlocking further performance boosts. The Hyperscale Firewall License enables the hardware acceleration of CGNAT features by utilizing Fortinet's patented SPU NP7. These features include hardware session setup, firewall session logging, and NAT.

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#### **Trusted Platform Module (TPM)**

The FortiGate 4400F 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.

#### **100 GE Connectivity for Network**

High-speed connectivity is essential for network security segmentation at the core of data networks. The FortiGate 4400F series provides multiple 100 GE QSFP28 slots, simplifying network designs without relying on additional devices to bridge desired connectivity.

# **Specifications**

Interfaces and ModulesHardware Accelerated 100 GE QSFP28 / 40 GE QSFP+ SlotsHardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP SlotsHardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP HA SlotsHardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP AUX SlotsGE RJ45 Management PortsUSB Port (3.0)Console PortOnboard StorageIncluded TransceiversSystem Performance — Enterprise Traffic MixIPS Throughput 2.4Threat Protection Throughput 2.5System Performance and CapacityIPv4 Firewall Throughput(1518 / 512 / 64 byte, UDP)Firewall Throughput (Packet per Second)Concurrent Sessions (TCP)New Sessions/Second (TCP)Firewall PoliciesIPsec VPN Throughput (512 byte) 1Gateway-to-Gateway IPsec VPN TunnelsClient-to-Gateway IPsec VPN Tunnels	12 16 2 2 2 2 1 1 1 1 2× 2 TB SSD 2× SFP+ (SR 10 GE) 94 Gbps 82 Gbps 82 Gbps 75 Gbps			
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IPsec VPN Throughput (512 byte) <sup>1</sup> Gateway-to-Gateway IPsec VPN Tunnels	1 Million / 10 Million *			
Gateway-to-Gateway IPsec VPN Tunnels	400 000			
	310 Gbps			
Client-to-Gateway IPsec VPN Tunnels	40 000			
	200 000			
SSL-VPN Throughput	16 Gbps			
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	30 000			
SSL Inspection Throughput (IPS, avg. HTTPS) <sup>3</sup>	86 Gbps			
SSL Inspection CPS (IPS, avg. HTTPS) <sup>3</sup>	70 000			
SSL Inspection Concurrent Session (IPS, avg. HTTPS) <sup>3</sup>	9 Million			
Application Control Throughput (HTTP 64K) <sup>2</sup>	140 Gbps			
CAPWAP Throughput (HTTP 64K)	63 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			
Maximum Number of Registered FortiClients	20 000			
High Availability Configurations Active	20 000			

FORTIGATE	4400F/-DC	4401f/-DC		
Dimensions and Power				
Height x Width x Length (inches)	6.97 × 17.20 × 26.17			
Height x Width x Length (mm)	177 × 437 × 665			
Weight	81.8 lbs (37.1 kg)	83.1 lbs (37.7 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)	1533W / 1875W	1539W / 1881W		
AC Current (Maximum)	20A@100V, 9A@240V			
DC Power Supply	-48V to -60V DC			
DC Current (Average / Maximum)	32A /100 Apk			
Heat Dissipation	6397.77 BTU/h	6418.24 BTU/h		
Redundant Power Supplies	Yes, Hot Swappable, 2+2 (AC), 1+1 (DC)			
Power Supply Efficiency Rating	80Plus Compliant			
Fan Tray	Hot Swappable			
Operating Environment and Certifications				
Operating Temperature	32°F to 104°F (0°C to 40°C)			
Storage Temperature	-31°F to 158°F (-35°C to 70°C)			
Humidity	20% to 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.

 $^{\rm 2}$  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.



# **Ordering Information**

Fordbate 4400F     F0-400F     10: https://doi.org/10.1000/10.0000 SPP28 sics, 2x GE L454 Management Ports, SPU L97 and CPP Indroves accounted, and A grows supplies.     2x L97 and CPP Indroves accounted, and A grows supplies.     2x L97 and CPP Indroves accounted, and A grows supplies.     2x L97 and CPP Indroves accounted, and A grows supplies.       Fordbate 4401F-DC     F0-4401F     10: https://doi.org/10.1000/000000000000000000000000000000			
BIOL NEP and CPB Instructure accelerated, ALD power tupplies.     Control       Forticates 4400F-DC     IC4 4000F-DC     The MORGANCE GESTPS allows and 149.758671005 EPS84 allow, 2x6 ERA45 Management Ports, BIOL NEP and CPB Instructure accelerated, 2x18 storage and X.C. Depart supplies.       FortiGates 4401F-DC     IC4-401F-DC     The MORGANCE GESTPS allows and 149.256211005 EPS84 allow, 2x6 ERA45 Management Ports, BIOL NEP and CPB Instructure accelerated, 2x18 storage and X.C. Departs supplies.       Mypersacle Filewall Litense     LL0-FGT-HYPSC     Mypersacle Filewall Litense for FortiGate FG-4200F/FG4201F Series for hardware accelerated, 2x18 storage and CP, Departs supplies.       Optional Accessories/Sparse     SKU     Description       Acc Power Codd     SP-FG400F-PS     2000W Codder Allows FM 2000F and 8000F series, does not incude SP-FG4000F-EO.2000F Codder EVA100F EVA10F EVA10F EVA10F EVA10F EVA10F EVA10F EVA10F EV	Product	SKU	Description
BIOL MPP and CPP Instrukture accelerated, and CPP power supplied.     Control       FortiGate 440FF     CP-4401F     The MODE/AGGE CSPF28 also and 18 / 250E/100E SPF28 biols, 2x, 0E RA45 Management Ports, SPU MPP and CPP Instrukture accelerated, 2x / TB strukge and DP power supplied.       FortiGate 440FF-DC     CP-4401F-DC     The MODE/AGGE CSPF28 biols and 18 / 250E/100E SFP28 biols, 2x, 0E RA45 Management Ports, SPU MPP and CPP Instrukture accelerated, 2x / TB strukge and DP power supplied.       Optional Accessories/Eparse     SKU     Description       AC Power Supply     SP-F04000F-PS     Description       CP ower Cord     SP-F04000F-DP-S     Depart supply for 4000F and 600F seles, does not include SP F6PC0RC15 xXX       CP ower Supply     SP-F04000F-DP-S     Depart supply for 4000F and 600F-DC/4401F-DC/4401F-DC/400F-DC/4401F-DC/400F-DC/4401F-DC/4	FortiGate 4400F	FG-4400F	
SPU IPP and CPP hardware acceleration (2) × 2118 storage and Acp power supplies.       FordGate 4401F-DC     SPU IVP and CPP hardware acceleration (2) × 2118 storage and Acp power supplies.       Hyperscale Firewall Leanse     LIG-FGT-HYPSC     Pyperscale Firewall Leanse for FortiGate FG-4200F/FG4201F Sories for hardware acceleration and logging and acceleration accelera	FortiGate 4400F-DC	FG-4400F-DC	
BOL NP2 and CPB hadvage acceleration and CPB hadvage acceleration and Nogaria.     Security acceleration and Nogaria.       Hyperscale Frewall License     LIC-FGT-HYPSC     Berefactor for Number and Nogaria.       Optional Accessories/Spares     SU     Description       ACP Power Supply     SP-F6400FF-PSC     Optional Accessories/Spares.       ACP Power Cord     SP-F6400FF-PSC     Optional Accessories/Spares.     Optional Accessories/Spares.       DC Power Cord     SP-F6400FF-PSC     DC Power Supply for F6-4200F-PDC, F6-4400F-PDC, F6-4	FortiGate 4401F	FG-4401F	
Control     Site     Description       Optional Accessories/Spares     SV     Description       ACc Power Supply     SP-FG4000FP-PS     Depower cord, SP-FG40C00F Accessories/Spares     Accecessories/Spares     Accecessories/Spares	FortiGate 4401F-DC	FG-4401F-DC	
AC Power Supply   SP-F64000F-PS   2000W AC power supply for 4000F and 6000F series, does not include SP-F6PC0RC15-XX power cord.     AC Power Cord   SP-F64000F-PS   2000W AC power supply for F0-4200F-DC/40F-DC/400F-DC/400F-DC/40F-DC/400F-DC/400F-DC/400F	Hyperscale Firewall License	LIC-FGT-HYPSC	
power cord.       AC Power Cord     SP-FGPCORC15-XX     6 ft power cord, 15A125V XXX, PSE BLACK ROHS-6, FG-F3900E, 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/4404F/6000F.       Tan Tray     SP-FG4000F-DC-PS     DC power supply for FG-4200F-DC/4404F/6000F.       Tansceiver Module     SP-FG4000F-DC-PS     Decorption       10E SFP IX Transceiver Module     FN-TRAN-LX     10E SFP K1 transceiver module for all systems with SFP and SFP/SFP+ slots.       10E SFP X Transceiver Module     FN-TRAN-SX     10E SFP K1 transceiver module for all systems with SFP and SFP/SFP+ slots.       10 G SFP+ Transceiver Module, Short Range     FN-TRAN-SFP-GC     10 G SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.       10 G SFP+ Transceiver Module, Short Range     FN-TRAN-SFP+LR     10 G SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.       10 G SFP+ Transceiver Module, Short Range     FN-TRAN-SFP+LR     10 G SFP+ transceiver module, short range for all systems with SFP4 and SFP/SFP+ slots.       25 G SFP28 transceiver Module, Short Range     FN-TRAN-SFP2-R     10 G SFP+ transceiver module, short range for all systems with SFP4 and SFP/SFP+ slots.       26 G SFP28 transceiver Module, Short Range     FN-TRAN-SFP28-SR     25 G SFP28 transceiver module,	Optional Accessories/Spares	SKU	Description
Series     Series       DC Power Supply     SP-FG40K0F-DC-PS     DC power supply for FG-420F-DC/420TF-DC, FG-4400F-DC and FG-6000F-DC.       Far Tay     SP-FG4K6K-FAN     Spare Hot swappable Fan Module for FG-420F/A40XF/6000F-DC.       Tansceivers     SKU     Description       10 E SFP LX Transceiver Module     FN-TFAN-ICX     10 E SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.       10 E SFP XTansceiver Module     FN-TFAN-SCX     10 E SFP X14S transceiver module for all systems with SFP and SFP/SFP+ slots.       10 G SFP+ Transceiver Module, foor fRange     FN-TFAN-SFP+C0     10 G E SFP- X14S transceiver module for all systems with SFP and SFP/SFP+ slots.       10 G SFP+ Transceiver Module, Long Range     FN-TFAN-SFP+LR     10 G E SFP+ transceiver module, for all systems with SFP and SFP/SFP+ slots.       10 G SFP+ Transceiver Module, Short Range     FN-TFAN-SFP+LR     10 G E SFP+ transceiver module, for all systems with SFP2 all SFP/SFP+ slots.       25 G SFP28 Transceiver Module, Short Range     FN-TFAN-SFP+2R     20 G E SFP28 transceiver module, short range for all systems with SFP28 slots.       25 G SFP28 Transceiver Module, Long Range     FN-TFAN-SFP+2R     20 G E SFP28 transceiver module, short range for all systems with GSFP+ slots.       40 G E GSFP+ Transceiver Module, Short Range     FN-TFAN-GSFP+2R     20 G E SFP28 transceiver module,	AC Power Supply	SP-FG4000F-PS	
Fan Tray     SP-F04K8K-FAN     Spare Hot swappable Fan Module for F0-420xF/440xF/6000F.       Transceivers     SKU     Description       10 ES SPLX Transceiver Module     FN-TRAN-LX     10 ES SPLX transceiver module for all systems with SPP and SP/SFP+ slots.       10 ES SPP At45 Transceiver Module     FN-TRAN-GC     10 ES SPP At45 transceiver module for all systems with SPP and SP/SFP+ slots.       10 ES SPP At45 Transceiver Module     FN-TRAN-SC     10 ES SPP At45 transceiver module for all systems with SPP and SP/SFP+ slots.       10 GE SPP+ R45 Transceiver Module, Short Range     FN-TRAN-SPP+SR     10 GE SPP+ transceiver module, short range for all systems with SPP and SP/SFP+ slots.       10 GE SPP+ Transceiver Module, BOWE Extreme Long     FN-TRAN-SPP-2R     10 GE SPP+ transceiver module, short range for all systems with SPP and SP/SFP+ slots.       25 GE SPP28 Transceiver Module, Long Range     FN-TRAN-SPP-2R     25 GE SPP28 transceiver module, short range for all systems with SPP2 as lots.       25 GE SPP28 Transceiver Module, Short Range     FN-TRAN-SPP28-LR     25 GE SPP28 transceiver module, short range for all systems with SFP28 slots.       26 GE SPP28 Transceiver Module, Short Range     FN-TRAN-OSFP28-LR     40 GE GSFP+ transceiver module, short range for all systems with OSFP+ slots.       40 GE GSFP4 Transceiver Module, Short Range     FN-TRAN-OSFP28-LR     40 GE GSFP4 transceiver module, short ran	AC Power Cord	SP-FGPCORC15-XX	
Transceiver     SKU     Description       10 E SFP LX Transceiver Module     FN-TRAN-LX     10 E SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.       10 E SFP RJ45 Transceiver Module     FN-TRAN-GC     10 E SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.       10 E SFP RJ45 Transceiver Module     FN-TRAN-SX     10 E SFP SX transceiver module for all systems with SFP and SFP/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, Short Range     FN-TRAN-SFP+LR     10 GE SFP+ transceiver module, slot range for all systems with SFP+ and SFP/SFP+ slots.       10 GE SFP+ Transceiver Module, Short Range     FN-TRAN-SFP2R     25 GE SFP28 transceiver module, slot 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, nong range for all systems with SFP28 slots.       25 GE SFP28 Transceiver Module, Long Range     FN-TRAN-SFP28-SR     25 GE SFP28 transceiver module, nong range for all systems with QSFP+ slots.       40 GE QSFP+ transceiver Module, Short Range BIDI     FO-TRAN-QSFP28-SR     26 GE SFP28 transceiver module, nong range for all systems with QSFP+ slots.       40 GE QSFP+ transceiver Module, Long Range     FN-TRAN-QSFP28-SR </td <td>DC Power Supply</td> <td>SP-FG4000F-DC-PS</td> <td>DC power supply for FG-4200F-DC/4201F-DC, FG-4400F-DC/4401F-DC and FG-6000F-DC.</td>	DC Power Supply	SP-FG4000F-DC-PS	DC power supply for FG-4200F-DC/4201F-DC, FG-4400F-DC/4401F-DC and FG-6000F-DC.
10 E SFP LX Transceiver Module   FN-TRAN-LX   10 E SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.     10 E SFP SX Transceiver Module   FN-TRAN-SC   10 E SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.     10 E SFP SX Transceiver Module   FN-TRAN-SFP+GC   10 GE SFP+ RJ45 transceiver module for all systems with SFP and SFP/SFP+ slots.     10 G E SFP+ Transceiver Module, Short Range   FN-TRAN-SFP+GC   10 GE SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.     10 G E SFP+ Transceiver Module, Long Range   FN-TRAN-SFP+SR   10 GE SFP+ transceiver module, long range for all systems with SFP+ and SFP/SFP+ slots.     10 G E SFP+ Transceiver Module, Soft Range   FN-TRAN-SFP+ZR   10 GE SFP+ transceiver module, long range for all systems with SFP28 slots.     25 GE SFP28 Transceiver Module, Soft Range   FN-TRAN-SFP28-SR   25 GE SFP28 transceiver module, slont range for all systems with SFP28 slots.     26 G SFP+ Transceiver Module, Short Range   FN-TRAN-SFP28-LR   25 GE SFP28 transceiver module, slont range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Short Range   FN-TRAN-QSFP3R   40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Long Range   FN-TRAN-QSFP28-LR   40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Lo	Fan Tray	SP-FG4K6K-FAN	Spare Hot swappable Fan Module for FG-420xF/440xF/6000F.
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 RJ45 Transceiver Module   FN-TRAN-SY   1 GE SFP RJ45 transceiver module for all systems with SFP and SFP/SFP+ slots.     10 GE SFP+ Transceiver Module, Short Range   FN-TRAN-SFP+GC   10 GE SFP+ transceiver module for systems with SFP+ and SFP/SFP+ slots.     10 GE SFP+ Transceiver Module, Long Range   FN-TRAN-SFP+SR   10 GE SFP+ transceiver module, long range for all systems with SFP+ and SFP/SFP+ slots.     10 GE SFP+ Transceiver Module, Short Range   FN-TRAN-SFP+LR   10 GE SFP+ transceiver module, 80km extreme long range, for systems with SFP+ and SFP/SFP+ alots.     25 GE SFP28 Transceiver Module, Short Range   FN-TRAN-SFP28-SR   25 GE SFP28 transceiver module, not range for all systems with SFP28 slots.     26 GE SFP28 Transceiver Module, Short Range   FN-TRAN-SFP28-SR   25 GE SFP28 transceiver module, not range for all systems with SFP28 slots.     26 GE SFP28 Transceiver Module, Short Range   FN-TRAN-SFP3-SR   40 GE QSFP+ transceiver module, nong range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Short Range   FN-TRAN-QSFP4-SR   40 GE QSFP+ transceiver module, nong range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Alkm Extended   FN-TRAN-QSFP4-SR   40 GE QSFP+ transceiver module, Nort range for all systems with QSFP+/QSFP4 slots.     100 G	Transceivers	SKU	Description
1 0E SFP SX Transceiver Module   FN-TRAN-SX   1 0E SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.     10 0E SFP+ RJ45 Transceiver Module, Short Range   FN-TRAN-SFP+GC   10 0E SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.     10 0E SFP+ Transceiver Module, Short Range   FN-TRAN-SFP+SR   10 0E SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.     10 0E SFP+ Transceiver Module, 80km Extreme Long   FN-TRAN-SFP+LR   10 0E SFP+ transceiver module, short 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.     40 0E QSFP+ Transceiver Module, Short Range   FN-TRAN-SFP+SR   40 GE QSFP+ transceiver module, short range for all systems with QSFP+ 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   FN-TRAN-QSFP+SR   40 GE QSFP+ transceiver module, nong range for all systems with QSFP+ slots.     100 GE SSFP28 Transceiver Module, Short Range   FN-TRAN-QSFP+SR   40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.     100 GE QSFP28 Transceiver Module, Short Range   FN-TRAN-QSFP28-SR   100 0E QSFP28 transceiver module, for all systems with QSFP28 slots.	1 GE SFP LX Transceiver Module	FN-TRAN-LX	1 GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.
10 GE SFP+ RJ45 Transceiver Module   FN-TRAN-SFP+GC   10 GE SFP+ transceiver module for systems with SFP+ slots.     10 GE SFP+ Transceiver Module, Short Range   FN-TRAN-SFP+SR   10 GE SFP+ transceiver module, long 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, Short Range   FN-TRAN-SFP+ZR   10 GE SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.     25 GE SFP28 Transceiver Module, Long Range   FN-TRAN-SFP28-SR   25 GE SFP28 transceiver module, short range for all systems with SFP28 slots.     26 GE SFP28 Transceiver Module, Short Range   FN-TRAN-GSFP+SR   40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Long Range   FN-TRAN-QSFP+SR-BIDI   40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Long Range   FN-TRAN-QSFP+SR-BIDI   40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Long Range   FN-TRAN-QSFP+SR   40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Long Range   FN-TRAN-QSFP+SR   40 GE QSFP+ transceiver module, short range for all systems with QSFP4 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.
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, Short Range   FN-TRAN-SFP+ZR   10 GE SFP+ transceiver module, 80km extreme long range, for 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.     26 GE SFP28 Transceiver Module, Short Range   FN-TRAN-SFP28-LR   25 GE SFP28 transceiver module, short range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Short Range   FN-TRAN-QSFP28-SR   40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Long Range   FN-TRAN-QSFP+SR   40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Short Range   FN-TRAN-QSFP+SR   40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Short Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, long range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Short Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, long range for all systems with Q	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+ 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, 80km Extreme Long   FN-TRAN-SFP+ZR   10 GE SFP+ transceiver module, 80km extreme long range, for systems with SFP+ and SFP/SFP+ slots.     25 GE SFP28 Transceiver Module, Long Range   FN-TRAN-SFP28-SR   25 GE SFP28 transceiver module, short range for all systems with SFP28 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.     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, Alort Range   FN-TRAN-QSFP+SR-BIDI   40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Alort Range   FN-TRAN-QSFP+ER   40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Short Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, short range for all systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, Long Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.     100 GE QSFP28 BIDI Transceiver Module, Long Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, 100m MMF LC connecto	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, 80km Extreme Long Range   FN-TRAN-SFP+ZR   10 GE SFP+ transceiver module, 80km extreme long range, for systems with SFP+ and SFP/SFP+ slots.     25 GE SFP28 Transceiver Module, Long 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, Long Range   FN-TRAN-QSFP+SR-BIDI   40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Long Range   FN-TRAN-QSFP+SR-BIDI   40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, A0km Extended Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, short range for all systems with QSFP+ slots.     100 GE QSFP28 Transceiver Module, Long Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, Long Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, Long Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, long mange f	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.
Range   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 OSFP4 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   FN-TRAN-QSFP+SR-BIDI   40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Alokm Extended   FN-TRAN-QSFP+LR   40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, Alokm Extended   FN-TRAN-QSFP+LR   40 GE QSFP+ transceiver module, down extended range, for systems with QSFP+/QSFP28 slots.     100 GE QSFP28 Transceiver Module, Long Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, Long Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, nor module, NoSFP28 slots.     100 GE QSFP28 Transceiver Module, Long Range   FN-TRAN-QSFP28-SR   100	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.
25 GE SFP28 Transceiver Module, Long Range   FN-TRAN-SFP28-LR   25 GE SFP28 transceiver module, long range for all systems with QSFP4 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   FN-TRAN-QSFP+SR-BIDI   40 GE QSFP+ transceiver module, short range 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.     40 GE QSFP28 Transceiver Module, Short Range   FN-TRAN-QSFP+ER   40 GE QSFP28 transceiver module, short range for all systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, Long Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, Long Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.     100 GE QSFP28 BIDI Transceiver Module, Long Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, long mange for all systems with QSFP28 slots.     100 GE QSFP28 BIDI Transceiver Module, Long Range   FN-TRAN-QSFP28-BIDI   100 GE QSFP28 transceiver module, long mange for all systems with QSFP28 slots.     100 GE QSFP28 BIDI Transceiver Module, Inphi chipset   FN-TRAN-QSFP28-BIDI   100 GE QSFP28 BIDI transceiver module, 100G-Base-SR1.2 st	10 GE SFP+ Transceiver Module, 80km Extreme Long Range	FN-TRAN-SFP+ZR	
40 GE QSFP+ Transceiver Module, Short RangeFN-TRAN-QSFP+SR40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.40 GE QSFP+ Transceiver Module, Long RangeFN-TRAN-QSFP+SR-BIDI40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.40 GE QSFP+ Transceiver Module, Long RangeFN-TRAN-QSFP+LR40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.40 GE QSFP+ Transceiver Module, A0km ExtendedFN-TRAN-QSFP+ER40 GE QSFP+ transceiver module, 40km extended range, for systems with QSFP+ gastos.100 GE QSFP28 Transceiver Module, Short RangeFN-TRAN-QSFP28-SR100 GE QSFP28 transceiver module, short range for all systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, Long RangeFN-TRAN-QSFP28-LR100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.100 GE QSFP28 BIDI Transceiver Module, Inphi chipsetFN-TRAN-QSFP28-BIDI100 GE QSFP28 BIDI transceiver module, 100m MMF LC connector, for systems with QSFP28 slots.100 GE QSFP28 BIDI Transceiver Module, 20km ExtendedFN-TRAN-QSFP28-BIDI-I100 GE QSFP28 BIDI transceiver module, 100G-Base-SR1.2 standard, short range, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km ExtendedFN-TRAN-QSFP28-ER100 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km RangeFN-TRAN-QSFP28-LR4100 GE QSFP28 transceiver module, 20km range, LR4, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km RangeFN-TRAN-QSFP28-LR4100 GE QSFP28 transceiver module, 20km range, LR4, for systems with QSFP28 slots.100 GE QSFP	25 GE SFP28 Transceiver Module, Short Range	FN-TRAN-SFP28-SR	25 GE SFP28 transceiver module, short range for all systems with SFP28 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.     40 GE QSFP+ Transceiver Module, 40km Extended   FN-TRAN-QSFP+ER   40 GE QSFP+ transceiver module, 40km extended range, for systems with QSFP+ slots.     100 GE QSFP28 Transceiver Module, Short Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, short range for all systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, Long Range   FN-TRAN-QSFP28-LR   100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.     100 GE QSFP28 BIDI Transceiver Module, Inphi chipset   FN-TRAN-QSFP28-BIDI   100 GE QSFP28 BIDI transceiver module, 100m MMF LC connector, for systems with QSFP28 slots.     100 GE QSFP28 BIDI Transceiver Module, Inphi chipset   FN-TRAN-QSFP28-BIDI-1   100 GE QSFP28 BIDI transceiver module, 100G-Base-SR1.2 standard, short range, for systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, 20km Extended   FN-TRAN-QSFP28-ER   100 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, 20km Range   FN-TRAN-QSFP28-ER   100 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, 20km Ran	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, Long Range   FN-TRAN-QSFP+LR   40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.     40 GE QSFP+ Transceiver Module, 40km Extended   FN-TRAN-QSFP+ER   40 GE QSFP+ transceiver module, 40km extended range, for systems with QSFP+/QSFP28 slots.     100 GE QSFP28 Transceiver Module, Short Range   FN-TRAN-QSFP28-SR   100 GE QSFP28 transceiver module, short range for all systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, Long Range   FN-TRAN-QSFP28-LR   100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.     100 GE QSFP28 BIDI Transceiver Module, Inphi chipset   FN-TRAN-QSFP28-BIDI   100 GE QSFP28 BIDI transceiver module, 100m MMF LC connector, for systems with QSFP28 slots.     100 GE QSFP28 BIDI Transceiver Module, Long Range   FN-TRAN-QSFP28-BIDI-I   100 GE QSFP28 bIDI transceiver module, 100m MMF LC connector, for systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, Lopk Extended   FN-TRAN-QSFP28-BIDI-I   100 GE QSFP28 bIDI transceiver module, 100G-Base-SR1.2 standard, short range, for systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, 20km Extended   FN-TRAN-QSFP28-LR   100 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, 20km Range   FN-TRAN-QSFP28-LR   100 GE QSFP28 transceiver module, 20km range, LR4, for systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, 20km Range	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, 40km ExtendedFN-TRAN-QSFP+ER40 GE QSFP+ transceiver module, 40km extended range, for systems with QSFP+/QSFP28 slots.100 GE QSFP28 Transceiver Module, Short RangeFN-TRAN-QSFP28-SR100 GE QSFP28 transceiver module, short range for all systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, Long RangeFN-TRAN-QSFP28-LR100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.100 GE QSFP28 BIDI Transceiver ModuleFN-TRAN-QSFP28-BIDI100 GE QSFP28 BIDI transceiver module, 100m MMF LC connector, for systems with QSFP28 slots.100 GE QSFP28 BIDI Transceiver Module, Inphi chipsetFN-TRAN-QSFP28-BIDI-I100 GE QSFP28 BIDI transceiver module, 100m MMF LC connector, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km ExtendedFN-TRAN-QSFP28-BIDI-I100 GE QSFP28 BIDI transceiver module, 100G-Base-SR1.2 standard, short range, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km ExtendedFN-TRAN-QSFP28-ER100 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km RangeFN-TRAN-QSFP28-LR4100 GE QSFP28 transceiver module, 20km range, LR4, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km RangeFN-TRAN-QSFP28-LR4100 GE QSFP28 transceiver module, 20km range, LR4, for systems with QSFP28 slots.100 GE QSFP4 Passive Direct Attach Cable, 1m RangeSP-CABLE-FS-QSFP+140 GE QSFP4 Passive Direct Attach Cable, 1m range for Systems with QSFP4 slots.40 GE QSFP4 Passive Direct Attach Cable, 3m RangeSP-CABLE-FS-QSFP+340 GE QSFP4 Passive Direct Attach Cable, 3m range, for Systems with QSF	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.
Range100 GE QSFP28 Transceiver Module, Short RangeFN-TRAN-QSFP28-SR100 GE QSFP28 transceiver module, short range for all systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, Long RangeFN-TRAN-QSFP28-LR100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.100 GE QSFP28 BIDI Transceiver ModuleFN-TRAN-QSFP28-BIDI100 GE QSFP28 BIDI transceiver module, 100m MMF LC connector, for systems with QSFP28 slots.100 GE QSFP28 BIDI Transceiver Module, Inphi chipsetFN-TRAN-QSFP28-BIDI100 GE QSFP28 BIDI transceiver module, 100G-Base-SR1.2 standard, short range, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km ExtendedFN-TRAN-QSFP28-ER100 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km RangeFN-TRAN-QSFP28-LR4100 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km RangeFN-TRAN-QSFP28-LR4100 GE QSFP28 transceiver module, 20km range, LR4, for systems with QSFP28 slots.100 GE QSFP4 Passive Direct Attach Cable, 1m RangeSP-CABLE-FS-QSFP+140 GE QSFP+ Passive Direct Attach Cable, 1m range for Systems with QSFP+ slots.40 GE QSFP+ Passive Direct Attach Cable, 3m RangeSP-CABLE-FS-QSFP+340 GE QSFP+ Passive Direct Attach Cable, 3m range, 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.
100 GE QSFP28 Transceiver Module, Long RangeFN-TRAN-QSFP28-LR100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.100 GE QSFP28 BIDI Transceiver ModuleFN-TRAN-QSFP28-BIDI100 GE QSFP28 BIDI transceiver module, 100m MMF LC connector, for systems with QSFP28 slots.100 GE QSFP28 BIDI Transceiver Module, Inphi chipsetFN-TRAN-QSFP28-BIDI-1100 GE QSFP28 BIDI transceiver module, 100G-Base-SR1.2 standard, short range, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km ExtendedFN-TRAN-QSFP28-BIDI-1100 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km RangeFN-TRAN-QSFP28-ER100 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km RangeFN-TRAN-QSFP28-LR4100 GE QSFP28 transceiver module, 20km range, LR4, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 100 GE QSFP28 Direct Attach Cable, 1m RangeSP-CABLE-FS-QSFP+140 GE QSFP+ Passive Direct Attach Cable, 1m range for Systems with QSFP+ slots.40 GE QSFP+ Passive Direct Attach Cable, 3m RangeSP-CABLE-FS-QSFP+340 GE QSFP+ Passive Direct Attach Cable, 3m range, for Systems with QSFP+ slots.	40 GE QSFP+ Transceiver Module, 40km Extended Range	FN-TRAN-QSFP+ER	40 GE QSFP+ transceiver module, 40km extended range, for systems with QSFP+/QSFP28 slots.
100 GE QSFP28 BIDI Transceiver ModuleFN-TRAN-QSFP28-BIDI100 GE QSFP28 BIDI transceiver module, 100m MMF LC connector, for systems with QSFP28 slots.100 GE QSFP28 BIDI Transceiver Module, Inphi chipsetFN-TRAN-QSFP28-BIDI-I100 GE QSFP28 BIDI transceiver module, 100G-Base-SR1.2 standard, short range, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km ExtendedFN-TRAN-QSFP28-BIDI-I100 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km RangeFN-TRAN-QSFP28-ER100 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.100 GE QSFP28 Transceiver Module, 20km RangeFN-TRAN-QSFP28-LR4100 GE QSFP28 transceiver module, 20km range, LR4, for systems with QSFP28 slots.100 GE QSFP4 Passive Direct Attach Cable, 1m RangeSP-CABLE-FS-QSFP+140 GE QSFP+ Passive Direct Attach Cable, 1m range for Systems with QSFP+ slots.40 GE QSFP+ Passive Direct Attach Cable, 3m RangeSP-CABLE-FS-QSFP+340 GE QSFP+ Passive Direct Attach Cable, 3m range, for Systems with QSFP+ slots.	100 GE QSFP28 Transceiver Module, Short Range	FN-TRAN-QSFP28-SR	100 GE QSFP28 transceiver module, short range for all systems with QSFP28 slots.
slots.     100 GE QSFP28 BIDI Transceiver Module, Inphi chipset   FN-TRAN-QSFP28-BIDI-I   100 GE QSFP28 BIDI transceiver module, 100G-Base-SR1.2 standard, short range, for systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, 20km Extended Range   FN-TRAN-QSFP28-ER   100 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, 20km Range   FN-TRAN-QSFP28-ER   100 GE QSFP28 transceiver module, 20km range, LR4, for systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, 20km Range   FN-TRAN-QSFP28-LR4   100 GE QSFP28 transceiver module, 20km range, LR4, for systems with QSFP28 slots.     Cables   SKU   Description     40 GE QSFP+ Passive Direct Attach Cable, 1m Range   SP-CABLE-FS-QSFP+1   40 GE QSFP+ Passive Direct Attach Cable, 3m range, for Systems with QSFP+ slots.     40 GE QSFP+ Passive Direct Attach Cable, 3m Range   SP-CABLE-FS-QSFP+3   40 GE QSFP+ Passive Direct Attach Cable, 3m range, for Systems with QSFP+ slots.	100 GE QSFP28 Transceiver Module, Long Range	FN-TRAN-QSFP28-LR	100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.
with QSFP28 slots.     100 GE QSFP28 Transceiver Module, 20km Extended Range   FN-TRAN-QSFP28-ER   100 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.     100 GE QSFP28 Transceiver Module, 20km Range   FN-TRAN-QSFP28-LR4   100 GE QSFP28 transceiver module, 20km range, LR4, for systems with QSFP28 slots.     Cables   SKU   Description     40 GE QSFP+ Passive Direct Attach Cable, 1m Range   SP-CABLE-FS-QSFP+1   40 GE QSFP+ Passive Direct Attach Cable, 1m range for Systems with QSFP+ slots.     40 GE QSFP+ Passive Direct Attach Cable, 3m Range   SP-CABLE-FS-QSFP+3   40 GE QSFP+ Passive Direct Attach Cable, 3m range, for Systems with QSFP+ slots.	100 GE QSFP28 BIDI Transceiver Module	FN-TRAN-QSFP28-BIDI	
Range slots.   100 GE QSFP28 Transceiver Module, 20km Range FN-TRAN-QSFP28-LR4 100 GE QSFP28 transceiver module, 20km range, LR4, for systems with QSFP28 slots.   Cables SKU Description   40 GE QSFP+ Passive Direct Attach Cable, 1m Range SP-CABLE-FS-QSFP+1 40 GE QSFP+ Passive Direct Attach Cable, 1m range for Systems with QSFP+ slots.   40 GE QSFP+ Passive Direct Attach Cable, 3m Range SP-CABLE-FS-QSFP+3 40 GE QSFP+ Passive Direct Attach Cable, 3m range, for Systems with QSFP+ slots.	100 GE QSFP28 BIDI Transceiver Module, Inphi chipset	FN-TRAN-QSFP28-BIDI-I	
Cables     SKU     Description       40 GE QSFP+ Passive Direct Attach Cable, 1m Range     SP-CABLE-FS-QSFP+1     40 GE QSFP+ Passive Direct Attach Cable, 1m range for Systems with QSFP+ slots.       40 GE QSFP+ Passive Direct Attach Cable, 3m Range     SP-CABLE-FS-QSFP+3     40 GE QSFP+ Passive Direct Attach Cable, 3m range, for Systems with QSFP+ slots.	100 GE QSFP28 Transceiver Module, 20km Extended Range	FN-TRAN-QSFP28-ER	100 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.
40 GE QSFP+ Passive Direct Attach Cable, 1m Range   SP-CABLE-FS-QSFP+1   40 GE QSFP+ Passive Direct Attach Cable, 1m range for Systems with QSFP+ slots.     40 GE QSFP+ Passive Direct Attach Cable, 3m Range   SP-CABLE-FS-QSFP+3   40 GE QSFP+ Passive Direct Attach Cable, 3m range, for Systems with QSFP+ slots.	100 GE QSFP28 Transceiver Module, 20km Range	FN-TRAN-QSFP28-LR4	100 GE QSFP28 transceiver module, 20km range, LR4, for systems with QSFP28 slots.
40 GE QSFP+ Passive Direct Attach Cable, 3m Range SP-CABLE-FS-QSFP+3 40 GE QSFP+ Passive Direct Attach Cable, 3m range, for Systems with QSFP+ slots.	Cables	SKU	Description
	40 GE QSFP+ Passive Direct Attach Cable, 1m Range	SP-CABLE-FS-QSFP+1	40 GE QSFP+ Passive Direct Attach Cable, 1m range for Systems with QSFP+ slots.
40 GE QSFP+ Passive Direct Attach Cable, 5m Range SP-CABLE-FS-QSFP+5 40 GE QSFP+ Passive Direct Attach Cable, 5m range, for Systems with QSFP+ slots.	40 GE QSFP+ Passive Direct Attach Cable, 3m Range	SP-CABLE-FS-QSFP+3	40 GE QSFP+ Passive Direct Attach Cable, 3m range, for Systems with QSFP+ slots.
	40 GE QSFP+ Passive Direct Attach Cable, 5m Range	SP-CABLE-FS-QSFP+5	40 GE QSFP+ Passive Direct Attach Cable, 5m range, for Systems with QSFP+ slots.

# **Subscriptions**

			Bundles			
Service Category	Service Offering	A-la-carte	Enterprise Protection	Unified Threat Protection	Advanced Threat Protection	
FortiGuard Security	IPS Service	•	•	•		
Services	Anti-Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•	
	URL, DNS & Video Filtering Service	•	•	•		
	Anti-Spam		•	•		
	Al-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)	•				
	FortiManager Cloud	•				
	FortiAnalyzer Cloud	•				
	FortiAnalyzer Cloud with SOCaaS	•				
	FortiGuard SOCaaS	•				
Hardware and	FortiCare Essentials <sup>2</sup>	•				
Software Support	FortiCare Premium	•	•	•	•	
	FortiCare Elite	•				
Base Services	Internet Service (SaaS) DB Updates					
	GeoIP DB Updates		ipoludod with For	tiCara Subcariation		
	Device/OS Detection Signatures	included with FortiCare Subscription				
	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 Services**

Fortinet prioritizes customer success through FortiCare Services, optimizing the Fortinet Security Fabric solution. Our comprehensive lifecycle services include Design, Deploy, Operate, Optimize, and Evolve. The FortiCare Elite, one of the service variants, offers 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. Access the intuitive FortiCare Elite Portal for a unified view of device and security health, streamlining operational efficiency and maximizing Fortinet deployment performance.

#### **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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