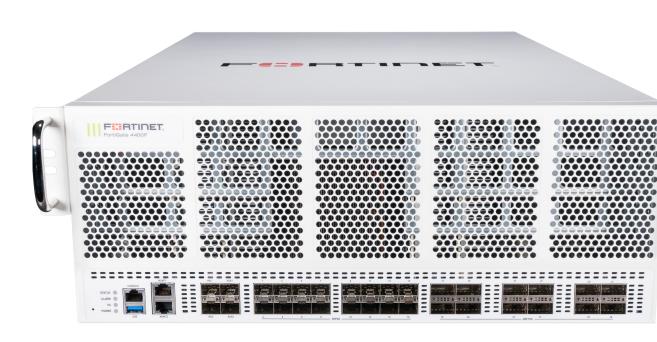


# FortiGate 4400F Series

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 AI / 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

FortiGate 4400F Series Data Sheet



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.



FortiGate 4400F Series Data Sheet



## **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.

## 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 Al-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





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



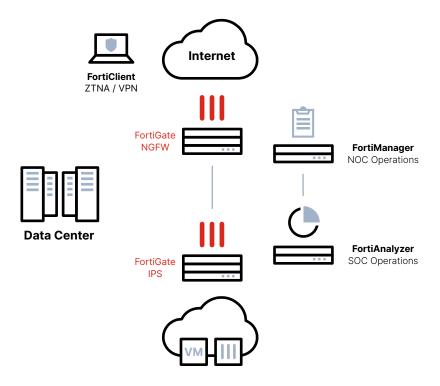
FortiGate 4400F Series Data Sheet



## 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

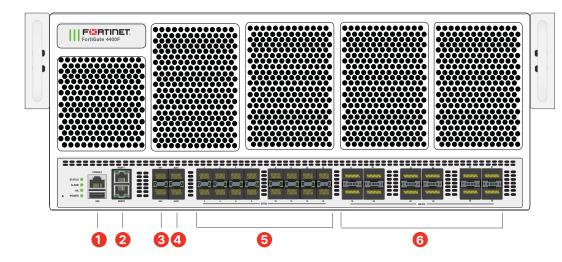
## **Datacenter Deployment** (NGFW, IPS, Segmentation)

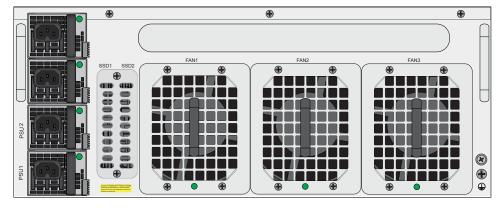




## **Hardware**

#### FortiGate 4400F Series

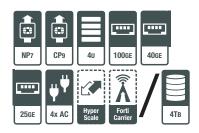




#### Interfaces

- 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**

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.

#### **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**

FORTIGATE	4400F/-DC 4401f/-DC				
Interfaces and Modules					
Hardware Accelerated 100 GE QSFP28 / 40 GE QSFP+ Slots	12				
Hardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP Slots	16				
Hardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP HA Slots	2				
Hardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP AUX Slots	2				
GE RJ45 Management Ports	2				
USB Port (3.0)	1				
Console Port	1				
Onboard Storage	— 2× 2 TB SSD				
Included Transceivers	2x SFP+ (SR 10 GE)				
System Performance — Enterprise Traffic Mix					
IPS Throughput <sup>2</sup>	94 Gbps				
NGFW Throughput <sup>2, 4</sup>	82 Gbps				
Threat Protection Throughput 2,5	75 Gbps				
System Performance and Capacity					
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	1.15 / 1.14 / 0.50 Tbps				
IPv6 Firewall Throughput (1518 / 512 / 86 byte, UDP)	1.15 / 1.14 / 0.50 Tbps				
Firewall Latency (64 byte, UDP)	2.98 µs				
Firewall Throughput (Packet per Second)	750 Mpps				
Concurrent Sessions (TCP)	210 Million / 700 Million *				
New Sessions/Second (TCP)	1 Million / 10 Million *				
Firewall Policies	400 000				
IPsec VPN Throughput (512 byte) 1	310 Gbps				
Gateway-to-Gateway IPsec VPN Tunnels	40 000				
Client-to-Gateway IPsec VPN Tunnels	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-Active, Active-Passive, Clustering				

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 × 4	37 × 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			

<sup>\*</sup> Requires Hyperscale Firewall License

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



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

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

<sup>&</sup>lt;sup>2</sup> IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Longing enabled

 $<sup>^{\</sup>rm 3}$  SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.

 $<sup>^{\</sup>rm 4}$  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**

FG-400F			
SPUNPY and CPP harborea societated, and A December supplies.	Product	SKU	Description
SPUNPY and CPP hardware accelerated, and Dic power supplies.	FortiGate 4400F	FG-4400F	
Fig-440F-DC  Fig-440B-DC  Fig-4	FortiGate 4400F-DC	FG-4400F-DC	
SPUNP? and CPP Interval License   LIC-EGT-HYPSC   Hyperscale Firewal License for FortiGate FG-42006/FG4708 Series for hardware season setup acceleration. 2 v. 278 interage and DC power supplies.	FortiGate 4401F	FG-4401F	
polipional accessories/Spares  SK  Description  AC Power Supply  SP-EG4000F-PS  SP-EG4000F-PS  DOWN AC power supply for 4000F and 6000F series, does not include SP-EGFC0RC15-VX  power cond.  AC Power Cord  SP-EG400F-PS  SP-EG400F-DC-PS  DC power supply for 4000F and 6000F series, does not include SP-EGFC0RC15-VX  power cond.  AC Power Supply  SP-EG400F-DC-PS  DC power supply for FG-4200F-DC-ADT-PC, FG-4400F-DC-ADT-PC and FG-6000F-DC.  SP-EG400F-DC-PS  SP-EG400F-FAN  Spare Hot swappable Fan Module for FG-4200F-DC, FG-4400F-DC-ADT-PC and FG-6000F-DC.  STATUTY  SP-EG4K0K-FAN  Spare Hot swappable Fan Module for FG-4200F-ADC-ADT-PC, FG-4400F-DC-ADT-PC and FG-6000F-DC.  SPELLAS Transceiver Module  SP-ETHAN-FAN  SPELLAS Transceiver Module  SP-ETHAN-SP-ETHAN  1 GE SPP LX Transceiver module for all systems with SFP and SFP/SFP- slots.  IGE SPP ATATA Transceiver Module  SP-ETHAN-SP-ETHAN  1 GE SPP ATATA Transceiver Module  SP-ETHAN-SP-ETHAN  1 GE SPP LX Transceiver module for all systems with SFP and SFP/SFP- slots.  IGE SPP ATATA Transceiver Module  SP-ETHAN-SP-ETHAN  1 GE SPP ATATA Transceiver Module.  SP-ETHAN-SP-ETHAN  1 GE SPP ATATA Transceiver Module, Stort Range  FN-TRAN-SP-ETHAN  1 GE SPP ATATA Transceiver Module, Short Range  FN-TRAN-SP-ETHAN  1 GE SPP ATATA Transceiver Module, Short Range  FN-TRAN-SP-ETHAN  1 GE SPP ATATAN-SP-ETHAN  1 GE SPP ATATAN	FortiGate 4401F-DC	FG-4401F-DC	
SP-FG4000F-PS 2000W AC power supply for 4000F and 8000F series, does not include SP-FGPC0RC15 XX power cord.  SP-FGPC0RC15-XX 6 ft power cord. 15A125V XXX, PSE BLACK ROHS-6, for FG-3800E, 4000E, 6000F and 7000E/F series.  OF Power Supply SP-FG4000F-DC-PS DC power supply for FG-4200F-DC/4201F-DC, FG-4400E-DC/4401F-DC and FG-6000F-DC. The power supply for FG-4200F-DC/4201F-DC, FG-4400F-DC/4401F-DC and FG-6000F-DC. The power supply for FG-4200F-DC/4201F-DC, FG-4400F-DC/4401F-DC, FG-4400F-DC/4400F	Hyperscale Firewall License	LIC-FGT-HYPSC	**
Copewor Cord   SPF-GOPCCTSXX   Series	Optional Accessories/Spares	SKU	Description
series. SP-F6400F-DC-PS DC power supply for FG-4200F-DC/4201F-DC, FG-4400F-DC/4401F-DC and FG-6000F-DC. Part Tray  SP-F64K8F-FAN Spare Hot swappable Fan Module for FG-420xF/440xF/6000F.  Transceivers  SKU Description  GE SPP LX Transceiver Module FN-TRAN-LX I GE SPP LX Transceiver module for all systems with SFP and SFP/SFP+ slots.  IGE SPP RJS Transceiver Module FN-TRAN-GC I GE SPP RJS Transceiver module for all systems with SFP and SFP/SFP+ slots.  IGE SPP RJS Transceiver Module FN-TRAN-SFP+ER I GE SPP ST transceiver module for all systems with SFP and SFP/SFP+ slots.  IGE SPP RJS Transceiver Module, Extended Range FN-TRAN-SFP+ER I GE SPP EXTENDED FOR MODE IN SPP SPP SPP SPP SPP SPP SPP SPP SPP SP	AC Power Supply	SP-FG4000F-PS	
SP-FGAK6K-FAN Sprace Hot swappable Fan Module for FG-420xF/440xF/8000F.  Fransceiver Module FN-TRAN-EX 10E SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.  GE SFP LX Transceiver Module FN-TRAN-EX 10E SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.  GE SFP SX Transceiver Module FN-TRAN-EX 10E SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.  GE SFP LX Transceiver Module, Extended Range FN-TRAN-SYP 10E SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.  GE SFP LX Transceiver Module, Extended Range FN-TRAN-SFP-GC 10E SFP+ transceiver module, extended range for all systems with SFP and SFP/SFP+ slots.  GE SFP+ Transceiver Module, Short Range FN-TRAN-SFP-GC 10E SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.  GE SFP+ Transceiver Module, Long Range FN-TRAN-SFP-LR 10E SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.  GE SFPP Transceiver Module, SMR Extreme Long FN-TRAN-SFP-RP 10E SFP SX Transceiver module, SMR extreme long range, for systems with SFP- and SFP/SFP+ slots.  GE SFPP Transceiver Module, SMR Extreme Long FN-TRAN-SFP-RP 25 SR 25 SEP28 transceiver module, slot grange for all systems with SFP- and SFP/SFP slots.  GE SFPP Transceiver Module, SMR Extreme Long Range FN-TRAN-SFP-RP 25 SR 25 SES SEP28 transceiver module, smr and for all systems with SFP-8 slots.  GE SFPP Transceiver Module, Short Range FN-TRAN-SFP-RP-RP 25 SR 25 SES SEP28 transceiver module, smr ange for all systems with SFP-8 slots.  GE SFPP Transceiver Module, Short Range FN-TRAN-GSFP-LR 25 SR 25 SES SEP28 transceiver module, smr ange for all systems with GSFP-8 slots.  GE SFPP Transceiver Module, Long Range FN-TRAN-GSFP-LR 40 GE GSFP+ transceiver module, smr ange for all systems with GSFP-8 slots.  GE GSFPP Transceiver Module, Short Range FN-TRAN-GSFP-LR 40 GE GSFP-1 transceiver module, smr ange for all systems with GSFP-8 slots.  GE GSFPP Transceiver Module, GNM Extended FN-TRAN-GSFP28-BID	AC Power Cord	SP-FGPCORC15-XX	
CESTPLX Transceiver Module   FN-TRAN-LX   CESTPLX transceiver module for all systems with SFP and SFP/SFP+ slots.	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.
GE SPP LX Transceiver Module FN-TRAN-GC GE SPP RJ45 Transceiver Module FN-TRAN-GC GE SPP RJ45 Transceiver module for all systems with SPP and SPP/SFP+ slots.  GE SPP RJ45 Transceiver Module FN-TRAN-SC GE SPP RJ45 Transceiver module, Extended Range FN-TRAN-SPP-ER GE SPP RJ45 Transceiver module, Extended Range FN-TRAN-SPP-ER GE SPP RJ45 Transceiver module, Extended Range FN-TRAN-SPP-ER GE SPP RJ45 Transceiver module, Short Range FN-TRAN-SPP-ER GE SPP RJ45 Transceiver module, Short Range FN-TRAN-SPP-SP GE SPP RJ45 Transceiver module, Short Range FN-TRAN-SPP-SP GE SPP RJ45 Transceiver module, Short Range FN-TRAN-SPP-SP GE SPP RJ45 Transceiver Module, Long Range FN-TRAN-SPP-LR GE SPP RJ45 Transceiver Module, Short Range FN-TRAN-SPP-SP RJ46 SPP RJ46 SP	Fan Tray	SP-FG4K6K-FAN	Spare Hot swappable Fan Module for FG-420xF/440xF/6000F.
GE SFP RJ45 Transceiver Module FN-TRAN-SC GE SFP SX Transceiver Module FN-TRAN-SX GE SFP SX Transceiver module for all systems with SFP and SFP/SFP+ slots.  GE SFP SX Transceiver Module FN-TRAN-SX GE SFP SX Transceiver module, extended range for all systems with SFP and SFP/SFP+ slots.  GE SFP+ RJ45 Transceiver Module, Short Range FN-TRAN-SFP+SR GE SFP+ RJ45 Transceiver module, extended range for all systems with SFP+ and SFP/SFP+ slots.  GE SFP+ Transceiver Module, Short Range FN-TRAN-SFP+SR GE SFP+ RJ45 Transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.  GE SFP+ Transceiver Module, Short Range FN-TRAN-SFP+SR TO GE SFP+ Transceiver Module, Short Range FN-TRAN-SFP+ZR To GE SFP+ Transceiver Module, Short Range FN-TRAN-SFP+ZR Transceiver Module, Short Range FN-TRAN-SFP-ZB-SR Transceiver Module, Short Range FN-TRAN-SFP2B-SR To GE SFP2B Transceiver Module, Short Range FN-TRAN-GSFP2B-SR TO GE SFP2B Transceiver Module, Short Range FN-TRAN-GSFP+SR TO GE GSFP+ Transceiver Module, Short Range FN-TRAN-GSFP+SR TO GE GSFP+ Transceiver Module, Short Range FN-TRAN-GSFP+SR-BIDI TO GE GSFP2B Transceiver Module, Short Range FN-TRAN-GSFP2B-SR TO GE GSFP2B Transceiver Module, Short Range FN-TRAN-GSFP2B	Transceivers	SKU	Description
10 GE SFP X Transceiver Module, Extended Range FN-TRAN-SX FP-FER FN-TRAN-SP-FER F	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+ Transceiver Module, Extended Range FN-TRAN-SFP+ER 10 GE SFP+ LYAS transceiver module, extended range for all systems with SFP+ and SFP/SFP+ slots. 10 GE SFP+ Transceiver Module, Short Range FN-TRAN-SFP+SPR 10 GE SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots. 10 GE SFP+ Transceiver Module, Extended Range FN-TRAN-SFP+R 10 GE SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots. 10 GE SFP+ Transceiver Module, BOkm Extreme Long GN SFP+ Transceiver Module, Short Range FN-TRAN-SFP+R 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-SFP28-R 25 GE SFP28 transceiver module, short range for all systems with SFP28 slots. 10 GE GSFP4 Transceiver Module, Short Range FN-TRAN-SFP28-R 25 GE SFP28 transceiver module, short range for all systems with SFP28 slots. 10 GE GSFP+ Transceiver Module, Short Range FN-TRAN-GSFP+SR-BIDI GO E GSFP+ Transceiver Module, Short Range FN-TRAN-GSFP+SR-BIDI GO E GSFP4 Transceiver Module, Short Range BIDI FG-TRAN-GSFP+SR-BIDI GO E GSFP4 Transceiver Module, Short Range BIDI FG-TRAN-GSFP+SR-BIDI GO E GSFP4 Transceiver Module, Alom Extended FN-TRAN-GSFP+SR-BIDI GO E GSFP4 Transceiver Module, Alom Extended FN-TRAN-GSFP+SR-BIDI GO E GSFP4 Transceiver Module, Alom Extended FN-TRAN-GSFP+SP-SR-BIDI GO E GSFP28 Transceiver Module, Short Range FN-TRAN-GSFP+SP-SR-BIDI GO E GSFP28 Transceiver module, Alom Extended FN-TRAN-GSFP+SP-SR-BIDI GO E GSFP28 BIDI Transceiver Module, Short Range FN-TRAN-GSFP28-SR 100 GE GSFP28 BIDI Transceiver Module, Short Range FN-TRAN-GSFP28-BIDI GO E GSFP28 BIDI Transceiver Module, Short Range FN-TRAN-GSFP28-BIDI GO E GSFP28 BIDI Transceiver Module, India Systems with QSFP28 slots. 100 GE GSFP28 BIDI Transceiver Module, India Systems with QSFP28 slots. 100 GE GSFP28 BIDI Transceiver Module, India Systems with QSFP28 slots. 100 GE GSFP28 Transceiver Module, India Systems with QSFP28 slots. 100 GE GSFP28 Transceiver Modu	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+ RJ45 Transceiver Module, Short Range FN-TRAN-SFP+SP 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+LR 10 GE SFP+ transceiver module, slow extreme long range, for systems with SFP+ and SFP/SFP+ slots.  10 GE SFP- Transceiver Module, Short Range FN-TRAN-SFP28-SR 25 GE SFP28 transceiver module, short range for all systems with SFP28 slots.  10 GE SFP-8 Transceiver Module, Short Range FN-TRAN-SFP28-SR 25 GE SFP28 transceiver module, short range for all systems with SFP28 slots.  10 GE GSFP-7 Transceiver Module, Short Range FN-TRAN-SFP28-SR 25 GE SFP28 transceiver module, long range for all systems with SFP28 slots.  10 GE GSFP+ Transceiver Module, Short Range FN-TRAN-SFP28-SR 25 GE SFP28 transceiver module, short range for all systems with QSFP+ slots.  10 GE GSFP+ Transceiver Module, Short Range FN-TRAN-GSFP3-SR 40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.  10 GE QSFP+ Transceiver Module, Long Range FN-TRAN-QSFP3-SR 40 GE QSFP28 transceiver module, short range for all systems with QSFP+ slots.  10 GE QSFP28 Transceiver Module, A0km Extended FN-TRAN-QSFP3-SR 40 GE QSFP28 transceiver module, short range for all systems with QSFP3-slots.  10 GE QSFP28 Transceiver Module, Short Range FN-TRAN-QSFP3-SR 40 GE QSFP28 transceiver module, short range for all systems with QSFP3-slots.  10 GE QSFP28 Transceiver Module, A0km Extended FN-TRAN-QSFP3-SR 40 GE QSFP3-SR 50 GE QSFP3	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, 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, 80km extreme Long Ronge SFP-Transceiver Module, 80km extreme Long Ronge FN-TRAN-SFP+ZR 10 GE SFP+ transceiver module, 80km extreme long range, for systems with SFP+ and SFP/SFP+ slots. 10 GE SFP+ Transceiver Module, 80km extreme Long Ronge SFP-Transceiver Module, Short Range FN-TRAN-SFP28-SR 25 GE SFP28 Transceiver Module, Short Range FN-TRAN-SFP28-LR 25 GE SFP28 Transceiver Module, Short Range FN-TRAN-GFP28-LR 26 GE SFP28 Transceiver Module, Short Range FN-TRAN-GFP28-LR 26 GE SFP28 Transceiver Module, Short Range FN-TRAN-GFP28-LR 26 GE SFP28 Transceiver Module, Short Range FN-TRAN-GFP28-R-BIDI GE QSFP+ Transceiver Module, Short Range FN-TRAN-GFP28-R-BIDI GE QSFP+ Transceiver Module, Short Range FN-TRAN-GFP28-R-BIDI GE QSFP2 Transceiver Module, Short Range FN-TRAN-GFP28-R 40 GE QSFP2 transceiver module, short range for all systems with QSFP+ slots. 10 GE QSFP2 Transceiver Module, A0km extended range, for systems with QSFP28 slots. 10 GE QSFP2 Transceiver Module, Short Range FN-TRAN-QSFP28-SR 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 BIDI Transceiver Module FN-TRAN-QSFP28-BIDI GE QSFP28 BIDI Transceiver module, Short range for all systems with QSFP28 slots. 100 GE QSFP28 BIDI Transceiver Module, Long Range FN-TRAN-QSFP28-BIDI GE QSFP28 BIDI Transceiver module, Short range for all systems with QSFP28 slots. 100 GE QSFP28 Transceiver module, Short range for all systems with QSFP28 slots. 100 GE QSFP28 Transceiver module, CD cannectors, 2KM for all systems with QSFP28 slots. 100 GE QSFP28 Transceiver module, Short range for all systems with QSFP2	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+ Transceiver Module, Long Range FN-TRAN-SFP+ZR 10 GE SFP2 transceiver module, long range for all systems with SFP4 and SFP/SFP4 and SFP4 and	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 FN-TRAN-SFP+2R 10 GE SFP4 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, long 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.  26 GE SFP28 transceiver module, short range BiDl for all systems with QSFP+ slots.  27 GE QSFP+ transceiver module, short range BiDl for all systems with QSFP+ slots.  28 GE SFP28 transceiver module, short range BiDl for all systems with QSFP+ slots.  29 GE QSFP+ transceiver module, short range BiDl for all systems with QSFP+ slots.  29 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.  20 GE QSFP+ transceiver module, 40km extended range, for systems with QSFP+ slots.  20 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.  20 GE QSFP28 transceiver Module, Short Range FN-TRAN-QSFP28-SR 100 GE QSFP28 transceiver module, short range for all systems with QSFP28 slots.  20 GE QSFP28 Transceiver Module, Short Range FN-TRAN-QSFP28-BIDl 100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.  20 GE QSFP28 BIDI Transceiver Module, Short Range FN-TRAN-QSFP28-BIDL 100 GE QSFP28 transceiver module, 100 mMF LC connector, for systems with QSFP28 slots.  20 GE QSFP28 BIDI Transceiver Module, Inphi chipset FN-TRAN-QSFP28-BIDL 100 GE QSFP28 transceiver module, 100 mMF LC connector, for systems with QSFP28 slots.  20 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-CWDM4 100 GE QSFP28 transceiver module, 20km extended range, elevation, for systems with QSFP28 slots.  20 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-BIDL 100 GE QSFP28 transceiver module, 20km extended range, elevation, for system	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.
slots.  25 GE SFP28 Transceiver Module, Short Range FN-TRAN-SFP28-R FN-TRAN-QSFP+SR FN-TRAN-QSFP+SR FN-TRAN-QSFP+SR FN-TRAN-QSFP+SR FN-TRAN-QSFP28-R FN-TRAN-Q	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 QSFP+ slots.  10 GE QSFP+ Transceiver Module, Short Range FN-TRAN-QSFP+SR-BIDI 40 GE QSFP+ transceiver module, short range BiDi for all systems with QSFP+ slots.  10 GE QSFP+ Transceiver Module, Long Range FN-TRAN-QSFP+SR-BIDI 40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.  10 GE QSFP+ Transceiver Module, A0km Extended EN-TRAN-QSFP+ER 40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.  10 GE QSFP+ Transceiver Module, A0km Extended BN-TRAN-QSFP28-SR 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-BIDI FN-TRAN-QSF	10 GE SFP+ Transceiver Module, 80km Extreme Long Range	FN-TRAN-SFP+ZR	
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+LR 40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.  40 GE QSFP+ Transceiver Module, 40km Extended FN-TRAN-QSFP+LR 40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.  40 GE QSFP+ Transceiver Module, Short Range FN-TRAN-QSFP+LR 40 GE QSFP+ transceiver module, 40km extended range, for systems with QSFP+ slots.  40 GE QSFP28 Transceiver Module, Short Range FN-TRAN-QSFP28-SR 100 GE QSFP28 transceiver module, short range for all systems with QSFP28 slots.  40 GE QSFP28 Transceiver module, Long Range FN-TRAN-QSFP28-SR 100 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots.  40 GE QSFP28 BIDI Transceiver Module Long Range FN-TRAN-QSFP28-BIDI 100 GE QSFP28 BIDI transceiver Module, Long Range FN-TRAN-QSFP28-BIDI 100 GE QSFP28 BIDI transceiver Module, Inphi chipset FN-TRAN-QSFP28-BIDI 100 GE QSFP28 BIDI transceiver module, 100G-Base-SR1.2 standard, short range, for systems with QSFP28 slots.  40 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-CWDM4 100 GE QSFP28 transceiver module, 100G-Base-SR1.2 standard, short range, for systems with QSFP28 slots.  40 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-CWDM4 100 GE QSFP28 transceiver module, short range for all systems with QSFP28 slots.  40 GE QSFP28 Transceiver Module, 100G-Base-SR1.2 standard, short range, for systems with QSFP28 slots.  40 GE QSFP28 Transceiver module, 20km extended fiber, 100G-Base-DR for all systems with QSFP28 slots.  40 GE QSFP28 Transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.  40 GE QSFP28 Transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.  40 GE QSFP28 Transceiver module, 20km extended range, for Systems with QSFP28 slots.  40 GE QSFP28 Transceiver module, 20km extended range, for Systems with QSFP28 slots.  40 GE QSF	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 40 GE QSFP+ Transceiver module, short range BiDi for all systems with QSFP+ slots. 40 GE QSFP+ Transceiver Module, Long Range 5N-TRAN-QSFP+ER 40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots. 40 GE QSFP+ Transceiver Module, 40km Extended 40 GE QSFP+ Transceiver module, 40km extended range, for systems with QSFP+ slots. 40 GE QSFP28 Transceiver Module, Short Range 5N-TRAN-QSFP28-SR 5N-TRAN-QSFP28-SR 5N-TRAN-QSFP28-BIDI 5N-TRAN-	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+R 40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots. 40 GE QSFP28 transceiver Module, 40km extended FN-TRAN-QSFP28-SR 100 GE QSFP28 transceiver module, short range for all systems with QSFP28 slots. 40 GE QSFP28 transceiver module, short range for all systems with QSFP28 slots. 40 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots. 40 GE QSFP28 transceiver module, long range for all systems with QSFP28 slots. 40 GE QSFP28 BIDI Transceiver Module, Long Range FN-TRAN-QSFP28-LR 100 GE QSFP28 BIDI transceiver module, 100m MMF LC connector, for systems with QSFP28 slots. 40 GE QSFP28 BIDI Transceiver Module, Inphi chipset FN-TRAN-QSFP28-BIDI 100 GE QSFP28 BIDI transceiver module, 100G-Base-SR1.2 standard, short range, for systems with QSFP28 slots. 40 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-CWDM4 100 GE QSFP28 transceiver module, LC connectors, 2KM for all systems with QSFP28 slots. 40 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-DR 100 GE QSFP28 transceiver module, single channel single-mode fiber, 100GBase-DR for all systems with QSFP28 slots. 40 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots. 40 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots. 40 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots. 40 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots. 40 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots. 40 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots. 40 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots. 40 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots. 40 GE QSFP28 transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots. 40 GE Q	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 Extended RN-TRAN-QSFP28 Slots. Range RN-TRAN-QSFP28-SR RN-TRAN-QS	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.
Range  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 BIDI Transceiver Module, Long Range FN-TRAN-QSFP28-BIDI FN-TRAN-QSFP28-CWDM4 FN-TRAN-QSFP28-CWDM4 FN-TRAN-QSFP28-CWDM4 FN-TRAN-QSFP28-DR FN-TRAN-QSFP28-BIDI FN-TRAN-	40 GE QSFP+ Transceiver Module, Long Range	FN-TRAN-QSFP+LR	40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.
FN-TRAN-QSFP28-BIDI Transceiver Module, Long Range FN-TRAN-QSFP28-BIDI FN-TRAN-QSFP28-	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 Module 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-I 100 GE QSFP28 BIDI transceiver module, 100G-Base-SR1.2 standard, short range, for systems with QSFP28 slots.  100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-CWDM4 100GE QSFP28 transceiver module, LC connectors, 2KM for all systems with QSFP28 slots.  100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-DR 100 GE QSFP28 transceiver module, single channel single-mode fiber, 100GBase-DR for all 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 extended range, eLR4, gen3, for systems with QSFP28 slots.  100 GE QSFP28 Transceiver Module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.  100 GE QSFP28 Transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.  100 GE QSFP28 Transceiver Module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.  100 GE QSFP28 Transceiver Module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.  100 GE QSFP28 Transceiver Module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.  100 GE QSFP28 Transceiver Module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.  100 GE QSFP28 Transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.  100 GE QSFP28 Transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.  100 GE QSFP28 Transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.  100 GE QSFP28 Transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.  100 GE QSFP28 Transceiver module, 20km extended range, eLR4, gen3, for systems with QSFP28 slots.  100 GE QSFP28 Transceiver module, 20km extended	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 FN-TRAN-QSFP28-CWDM4 100 GE QSFP28 transceiver module, LC connectors, 2KM for all systems with QSFP28 slots.  100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-DR 100 GE QSFP28 transceiver module, single channel single-mode fiber, 100GBase-DR for all systems with QSFP28 slots.  100 GE QSFP28 Transceiver Module, 20km Extended Range SKU Description  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 QSFP+ slots.  100 GE QSFP+ Passive Direct Attach Cable, 3m Range SP-CABLE-FS-QSFP+1 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 FN-TRAN-QSFP28-CWDM4 FN-TRAN-QSFP28-DR FN-TRAN-QS	100 GE QSFP28 BIDI Transceiver Module	FN-TRAN-QSFP28-BIDI	
100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-DR 100 GE QSFP28 transceiver module, single channel single-mode fiber, 100GBase-DR for all 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.  2ables SKU Description  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.  30 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	
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.  Cables  SKU  Description  10 GE SFP+ Active Direct Attach Cable, 10m / 32.8 ft  SP-CABLE-ADASFP+  10 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	FN-TRAN-QSFP28-CWDM4	100GE QSFP28 transceiver module, LC connectors, 2KM for all systems with QSFP28 slots.
Sange slots.  Cables SKU Description  10 GE SFP+ Active Direct Attach Cable, 10m / 32.8 ft SP-CABLE-ADASFP+ 10 GE QSFP+ active direct attach cable, 10m / 32.8 ft for all systems with SFP+ and SFP/SFP+ 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	FN-TRAN-QSFP28-DR	
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. 10 GE QSFP+ Passive Direct Attach Cable, 1m Range 10 GE QSFP+ Passive Direct Attach Cable, 1m Range 10 GE QSFP+ Passive Direct Attach Cable, 3m Range 10 GE QSFP+ Passive Direct Attach Cable, 3m Range 10 GE QSFP+ Passive Direct Attach Cable, 3m Range 11 GE QSFP+ Passive Direct Attach Cable, 3m Range 12 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	
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, for Systems with QSFP+ slots.	Cables	SKU	Description
10 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.	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.
	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.
10 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 — IPS, Malicious/Botnet URLs	•	•	•	•	
Services	Anti-Malware Protection (AMP)—AV, Botnet Domains, Mobile Malware, Virus Outbreak Protection, Content Disarm and Reconstruct <sup>3</sup> , Al-based Heurestic AV, FortiGate Cloud Sandbox	•	•	•	•	
	URL, DNS and Video Filtering — URL, DNS and Video <sup>3</sup> Filtering, Malicious Certificate	•	•	•		
	Anti-Spam		•	•		
	Al-based Inline Malware Prevention <sup>3</sup>	•	•			
	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 <sup>1</sup>	•				
	Application Control		included with FortiCare Subscription			
	Inline CASB <sup>3</sup>		included with FortiCare Subscription			
SD-WAN and SASE	SD-WAN Underlay Bandwidth and Quality Monitoring	•				
Services	SD-WAN Overlay-as-a-Service	•				
	SD-WAN Connector for FortiSASE Secure Private Access	•				
	SASE connector for FortiSASE Secure Edge Management (with 10Mbps Bandwidth) <sup>2</sup>	•				
NOC and SOC Services	FortiConverter Service for one time configuration conversion	•	•			
	Managed FortiGate Service—available 24×7, 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	•				
	FortiGuard SOCaaS—24×7 cloud-based managed log monitoring, incident triage, and SOC escalation service	•				
Hardware and Software Support	FortiCare Essentials <sup>2</sup>	•				
	FortiCare Premium	•	•	•	•	
	FortiCare Elite	•				
Base Services	Device/OS Detection, GeoIPs, Trusted CA Certificates, Internet Services and Botnet IPs, DDNS (v4/v6), Local Protection, PSIRT Check, Anti-Phishing		included with For	tiCare Subscription		

- 1. Full features available when running FortiOS 7.4.1.
- 2. Desktop Models only.
- 3. Not available for FortiGate/FortiWiFi 40F, 60E, 60F, 80E, and 90E series from 7.4.4 onwards.



### **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.



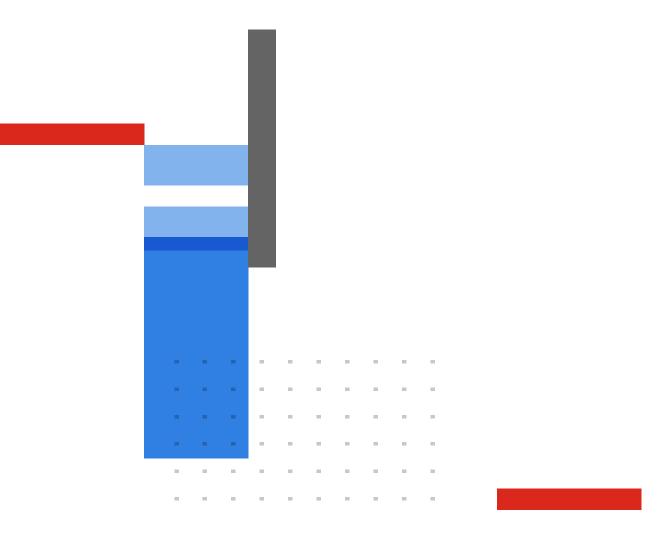
#### **FortiCare Services**

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 Corporate Social Responsibility 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.





www.fortinet.com

Copyright © 2024 Fortinet, Inc. All rights reserved. Fortinet\*, FortiGate\*, FortiCare\* and FortiGuard\*, and certain other marks are registered trademarks of Fortinet, Inc., and other Fortinet names herein may also be registered and/or common law trademarks of Fortinet. All other product or company names may be trademarks of their respective owners. Performance and other metrics contained herein were attained in internal lab tests under ideal conditions, and actual performance and other results may vary. Network environments and other conditions may affect performance results. Nothing herein represents any binding commitment by Fortinets Chicalisms all warrantes, whether express or implied, except to the extent Fortinet enters a binding written contract, signed of the publication without twill perform according to certain expressly-identified performance metrics and, in such event, only the specific performance metrics expressly identified in such binding written contract shall be binding on Fortinet. For absolute clarity, any such warranty will be limited to performance in the same ideal conditions as in Fortinets internal lab tests. Fortinet disclaims in full any covenants, representations, and guarantees pursuant hereto, whether express or implied. Fortinet reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable.