

FortiGate 1800F Series

FG-1800F/-DC and 1801F/-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 1800F 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 1800F 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 1800F automatically controls, verifies, and facilitates user access to applications delivering consistent convergence with a seamless user experience.

IPS	NGFW	Threat Protection	Interfaces
22 Gbps	17 Gbps	15 Gbps	Multiple GE RJ45, 25 GE SFP28 / 10 GE SFP+ /
			GE SFP and 100GE / 40 GE QSFP+ slots



Available in



Appliance



Virtual



Hosted



Cloud



Container

FortiOS Everywhere

FortiOS, Fortinet's Advanced Operating System

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

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

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

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

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



Intuitive easy to use view into the network and endpoint vulnerabilities



Visibility with FOS Application Signatures

FortiConverter Service

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





FortiGuard Services

Network and File Security

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

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

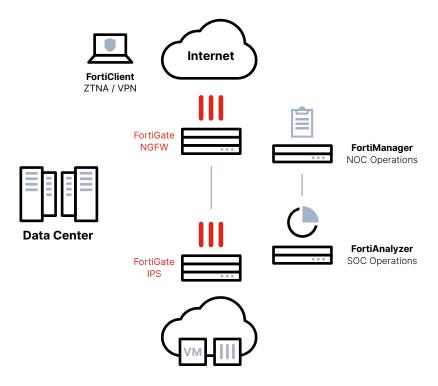




Mobile Security for 4G, 5G, and IoT

- 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

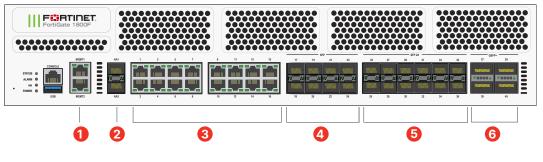
Datacenter Deployment (NGFW, IPS, Segmentation)

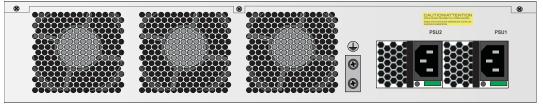




Hardware

FortiGate 1800F Series





Interfaces

- 1. 2 x GE RJ45 MGMT Ports
- 2. 2 × 10 GE SFP+ / GE SFP HA Slots
- 3. 16 x GE RJ45 Ports
- 4. 8 x GE SFP Slots
- 5. 12 × 25 SFP28 / 10 GE SFP+ / GE SFP Slots
- 6. 4 × 100 GE QSFP28 / 40 GE QSFP+ Slots*

Hardware Features























^{*} FortiOS 7.4+ is required for 100 GE support

Specifications

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	FG-1800F/-DC FG-1801F/-DC			
Interfaces and Modules				
Hardware Accelerated GE RJ45 Ports	16			
Hardware Accelerated GE SFP Slots	8			
Hardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP Slots	12			
Hardware Accelerated 100 GE QSFP28 / 40 GE QSFP+ Slots	4			
GE RJ45 Management Ports	2			
10 GE SFP+ / GE SFP HA Slots	2			
USB 3.0 Port	1			
Console RJ45 Port	1			
Onboard Storage	0 2×1 TB NVMe SSD			
Trusted Platform Module (TPM)	Yes			
Included Transceivers	2x SFP+ (SR 10 GE)			
${\bf System\ Performance-Enterprise\ Traffic\ Mix}$				
IPS Throughput ²	22 Gbps			
NGFW Throughput ^{2, 4}	17 Gbps			
Threat Protection Throughput 2,5	15 Gbps			
System Performance and Capacity				
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	198 / 197 / 140 Gbps			
IPv6 Firewall Throughput (1518 / 512 / 86 byte, UDP)	198 / 197 / 140 Gbps			
Firewall Latency (64 byte, UDP)	3.22 µs			
Firewall Throughput (Packet per Second)	210 Mpps			
Concurrent Sessions (TCP)	12 Million / 40 Million*			
New Sessions/Second (TCP)	750 000 / 2 Million*			
Firewall Policies	100 000			
IPsec VPN Throughput (512 byte) ¹	55 Gbps			
Gateway-to-Gateway IPsec VPN Tunnels	20 000			
Client-to-Gateway IPsec VPN Tunnels	100 000			
SSL-VPN Throughput	11 Gbps			
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	10 000			
SSL Inspection Throughput (IPS, avg HTTPS) ³	12 Gbps			
SSL Inspection CPS (IPS, avg. HTTPS) ³	9500			
SSL Inspection Concurrent Session (IPS, avg HTTPS) ³	1.3 Million			
Application Control Throughput (HTTP 64K) ²	34 Gbps			
CAPWAP Throughput (HTTP 64K)	65 Gbps			
Virtual Domains (Default / Maximum)	10 / 250			
Maximum Number of FortiSwitches Supported	196			
Maximum Number of FortiAPs (Total /Tunnel)	4096 / 2048			
Maximum Number of FortiTokens	20 000			
High Availability Configurations	Active-Active, Active-Passive, Clustering			

	FG-1800F/-DC	FG-1801F/-DC		
Dimensions and Power	10 100017 00	10 10011 / 00		
	3.5 × 17.25 × 21.1			
Height x Width x Length (inches)				
Height x Width x Length (mm)	88.4 × 438 × 536			
Weight	30.2 lbs (13.7 kg)	30.4 lbs (13.8 kg)		
Form Factor (supports EIA/non-EIA standards)	Rack Mount, 2RU			
AC Power Supply	100-240VAC, 50/60 Hz			
AC Current (Maximum)	7A@100VAC, 3A@240VAC			
DC Power Supply	-48V to -60V DC			
DC Current (Maximum)	20A			
Power Consumption (Average / Maximum)	410.9 W / 459.1 W	414.9 W / 463.1 W		
Heat Dissipation	1565.53 BTU/h	1579.2 BTU/h		
Power Efficiency Rating	80Plus Compliant			
Redundant Power Supplies Hot Swappable	Yes (Default dual AC PSU for 1+1 Redundancy)			
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	10% to 90% non-condensing			
Noise Level	62.74 dBA			
Forced Airflow	Side and 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

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



 $^{^{\}mbox{\tiny 1}}$ IPsec VPN performance test uses AES256-SHA256.

 $^{^{\}rm 2}$ IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.

³ SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.

 $^{^{\}rm 4}$ NGFW performance is measured with Firewall, IPS and Application Control enabled.

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

Ordering Information

Persistant 1907 Persistant			
SPF intents 180FF	Product	SKU	Description
PSP 88518 TO GET 1449 POINTS 2017 HOS ON DEPT 885018 POINT 37 HOS ON POR SECURISED. PSP 145016 TO GET 14501 POINTS 2017 PO	FortiGate 1800F	FG-1800F	
Part	FortiGate 1801F	FG-1801F	SFP slots, 18x GE RJ45 ports, 2× 1TB on board SSD storage. SPU NP7 and CP9 accelerated, dual
Physical Fine	FortiGate 1800F-DC	FG-1800F-DC	
Potential Accessories	FortiGate 1801F-DC	FG-1801F-DC	SFP slots, 18x GE RJ45 ports, 2× 1TB on board SSD storage. SPU NP7 and CP9 accelerated, dual
AC power supply	Hyperscale Firewall License FG1KF2KF	LIC-FGT-HYPSC-1K2K	
DC Power Supply SPF-01809F-DC-PS DC power supply for F0-1800/1801 and 50°-2600/3501. Calcal Control	Optional Accessories	SKU	Description
Rack Mount Siding Ralis SP / G004B8-MALL Rack mount stating rails for 16-1000C/D (p. 16-11001T/DIL 76-1200D) (P. 16-1000P/D. C) (P-0-200D) (P. 16-200D) (P. 16-20D) (P. 16-20	AC Power Supply	SP-FG1800F-PS	AC power supply for FG-1800/1801F.
Positional Transceiver Modules SKU Positional Transceiver Modules FN-TRAN-SK FN-TRAN-S	DC Power Supply	SP-FG1800F-DC-PS	DC power supply for FG-1800/1801F and FG-2600/2601.
1 OE SPP LX Transceiver Module PN-TRAN-LC 1 GE SPP LX15 transceiver module for systems with SPP and SPPSPP-slots. 1 OE SPP X Transceiver Module PN-TRAN-LC 1 GE SPP LX15 transceiver module for systems with SPP and SPPSPP-slots. 1 OE SPP X Transceiver Module PN-TRAN-SPP SP 1 GE SPP X Transceiver module for systems with SPP and SPPSPP-slots. 1 OE SPP Transceiver Module, Long Range PN-TRAN-SPP-SP 1 0 GE SPP transceiver module, son trange for systems with SPP and SPPSPP-slots. 1 OE SPP Transceiver Module, Long Range PN-TRAN-SPP-SP 1 0 GE SPP transceiver module, long range for systems with SPP and SPPSPP-slots. 1 OE SPP Transceiver Module, SPP PR 1 No. 1 SPP PR PR 1 No. 1 SPP PR PR 1 SPP PR PR 1 SPP PR 1 No. 1 SPP PR PR 1 SPP PR	Rack Mount Sliding Rails	SP-FG3040B-RAIL	FG-2000E, FG-2500E, FG-3040B/-DC, FG-3140B/-DC, FG-3240C/-DC, FG-3000D/-DC, FG-3100D/-DC, FG-3200D/-DC, FG-3400/3401E, FG-3600/3601E, FG-3700D/-DC, FG-3700DX,
1 OE SPP RJ45 Transceiver Module PN-TRAN-SC 10 E SPP RJ45 transceiver module for systems with SPP and SPP/SPP-slots. 10 GE SPP-Transceiver Module, Short Range PN-TRAN-SPP-IR 10 GE SPP-Transceiver module, Short Range for systems with SPP-slots. 10 GE SPP-Transceiver Module, Short Range PN-TRAN-SPP-IR 10 GE SPP-Transceiver module, long range for systems with SPP-slots. 10 GE SPP-Transceiver Module, Cannet PN-TRAN-SPP-IR 10 GE SPP-Transceiver module, long range for systems with SPP-slots. 10 GE SPP-Transceiver Module, Some Range PN-TRAN-SPP-IR 10 GE SPP- transceiver module, extended range. 10 GE SPP-Transceiver Module, Some Range PN-TRAN-SPP-IR 10 GE SPP- transceiver module, extended range. 10 GE SPP-Transceiver Module, Some Range PN-TRAN-SPP-IR 10 GE SPP- transceiver module, some range single Bibl for systems with SPP- and SPP/SPP-spP-Transceiver Module, Some Range PN-TRAN-SPP-IR 10 GE SPP- transceiver module, Some Range Bibl for systems with SPP- and SPP/SPP-PN-TRAN-SPP-IR 10 GE SPP-Transceiver Module, Some Range PN-TRAN-SPP-IR 10 GE SPP-IR 10	Optional Transceiver Modules	SKU	Description
1 Oct SPP X Transceiver Module, Short Range FN-TRAN-SX 1 O GE SPP transceiver module, Short Range FN-TRAN-SPP-SR 10 OE SPP- transceiver module, Long Range FN-TRAN-SPP-R 10 OE SPP- transceiver module, Long Range FN-TRAN-SPP-R 10 OE SPP- transceiver module, Long range for systems with SPP- and SPP/SPP+ slots. 10 OE Copper SPP+ RJ45 Transceiver (30 m Range) FN-TRAN-SPP-R 10 OE SPP- transceiver module, Long range for systems with SPP- and SPP/SPP+ slots. 10 OE SPP- Transceiver Module FN-TRAN-SPP-BD2 10 OE SPP- transceiver module, Long range FN-TRAN-SPP-BD2 10 OE SPP- transceiver module, some long range for systems with SPP- and SPP/SPP- slots (connects to FN-TRAN-SPP-BD33, ordered separately). 10 OE SPP- transceiver Module, (connects to FN-TRAN-SPP-BD33 10 OE SPP- transceiver module, Some long range single BID for systems with SPP- and SPP/SPP- slots (connects to FN-TRAN-SPP-BD33, ordered separately). 10 OE SPP- transceiver Module, (connects to FN-TRAN-SPP-BD34 10 OE SPP- transceiver Module, (connects to FN-TRAN-SPP-BD37) 10 OE OESPP- transceiver Module, (connects to FN-TRAN-SPP-BD37) 10 OE OESPP-BD37 10 OE OESPP-BD38 10 OE OESPP-BD38 10 OE OESPP-BD39 10 OE OESPP-BD39 10 OE OESPP-BD39 10 OE OESPP-BD39 10 OE OESPP-BD3	1 GE SFP LX Transceiver Module	FN-TRAN-LX	1 GE SFP LX transceiver module for systems with SFP and SFP/SFP+ slots.
10 GE SPP+ Transceiver Module, Short Range FN-TRAN-SPP+SP 10 GE SPP+ Transceiver Module, Long Range FN-TRAN-SPP+LR 10 GE SPP+ Transceiver Module, Long Range FN-TRAN-SPP+LR 10 GE SPP+ Transceiver Module, Spring FN-TRAN-SPP-LR 10 GE SPP+ Transceiver Module, Spring FN-TRAN-SPP-LR 10 GE SPP+ Transceiver Module, Spring FN-TRAN-SPP-LR 10 GE SPP-Transceiver Module, Spring FN-TRAN-SPP-LR 10 GE SPP-Transceiver Module, Spring FN-TRAN-SPP-LR 10 GE GSPP-Transceiver Module, Spring FN-TRAN-SPP-LR 10 GE GSPP-TRAN-SPP-LR 10 GE GSPP-T	1 GE SFP RJ45 Transceiver Module	FN-TRAN-GC	1 GE SFP RJ45 transceiver module for systems with SFP and SFP/SFP+slots.
10 GE SFP+ Transceiver Module, Long Range FN-TRAN-SFP-RC 10 GE SFP+ RJ45 Transceiver module, long range for systems with SFP+ and SFP/SFP+ slots. 10 GE SFP+ Transceiver Module FN-TRAN-SFP-EDC 10 GE SFP+ Transceiver module, optended range. 10 GE SFP+ Transceiver Module, 30km Long Range FN-TRAN-SFP+ED27 10 GE SFP+ Transceiver Module, (connects to FN-TRAN-SFP+ED27 10 GE SFP+ Transceiver Module, (connects to FN-TRAN-SFP+ED27, ordered separately). 10 GE SFP+ Transceiver Module, (connects to FN-TRAN-SFP+ED27, ordered separately). 10 GE SFP+ Transceiver Module, (connects to FN-TRAN-SFP+ED27, ordered separately). 10 GE SFP+ Transceiver Module, Sphort Long Range FN-TRAN-SFP+ED28 10 GE SFP+ Transceiver Module, Long Range FN-TRAN-SFP+ED28 25 GE SFP28 Transceiver Module, Long Range FN-TRAN-SFP28-SR 25 GE SFP28 Transceiver Module, Long Range FN-TRAN-SFP28-SR 25 GE SFP28 Transceiver Module, Short Range FN-TRAN-SFP28-SR 25 GE SFP28 Transceiver Module, Short Range FN-TRAN-SFP28-SR 26 GE SFP28 Transceiver Module, Short Range FN-TRAN-GSFP28-SR 26 GE SFP28 Transceiver Module FN-TRAN-GSFP28-SR 26 GE SFP28 Transceiver Module FN-TRAN-GSFP28-SR 26 GE SFP28 Transceiver Module, Short Range FN-TRAN-GSFP28-SR 26 GE SFP28 Transceiver Module, Short Rang	1 GE SFP SX Transceiver Module	FN-TRAN-SX	1 GE SFP SX transceiver module for systems with SFP and SFP/SFP+ slots.
10 GE Copper SFP+ RJ45 Transceiver (30 m Range) 10 GBssP+ Transceiver Module 10 GBssP+ Transceiver Modu	10 GE SFP+ Transceiver Module, Short Range	FN-TRAN-SFP+SR	10 GE SFP+ transceiver module, short range for systems with SFP+ and SFP/SFP+ slots.
10 GB SEP+ Transceiver Module, 30km Long Range PN-TRAN-SEP-BD32 10 GE SEP+ Transceiver Module, 20km Long Range PN-TRAN-SEP-BD32 10 GE SEP+ Transceiver Module, Connects to PN-TRAN-SEP-BD32 10 GE SEP+ Transceiver Module, Long Range PN-TRAN-SEP-BD32 25 GE SEP28 Transceiver Module, Long Range PN-TRAN-SEP-BD32 25 GE SEP28 Transceiver Module, Long Range PN-TRAN-SEP-BD32 25 GE SEP28 Transceiver Module, Sep	10 GE SFP+ Transceiver Module, Long Range	FN-TRAN-SFP+LR	10 GE SFP+ transceiver module, long range for systems with SFP+ and SFP/SFP+ slots.
10 GE SFP+ Transceiver Module, Solkm Long Range FN-TRAN-SFP+BD27 10 GE SFP+ Transceiver Module, (connects to FN-TRAN-SFP+BD33, ordered separately). 10 GE SFP+ Transceiver Module, (connects to FN-TRAN-SFP+BD33, ordered separately). 10 GE SFP+ Transceiver Module, Connects to FN-TRAN-SFP+BD27, ordered separately). 10 GE SFP+ Transceiver Module FN-TRAN-SFP+BD33 10 GE SFP+ Transceiver Module, BD1 for systems with SFP+ and SFP/SFP+ slots (connects to FN-TRAN-SFP+BD27, ordered separately). 10 GE SFP+ Transceiver Module, BD1 for systems with SFP+ and SFP/SFP+ slots. 25 GE SFP28 Transceiver Module, Long Range FN-TRAN-SFP+BD33 25 GE SFP28 Transceiver Module, Long Range FN-TRAN-SFP+BD34 25 GE SFP28 Transceiver Module, Short Range FN-TRAN-SFP+BD35 25 GE SFP28 Transceiver Module, Short Range FN-TRAN-SFP+BD37 25 GE SFP28 Transceiver Module, Short Range FN-TRAN-GSFP+SR 25 GE SFP28 Transceiver Module, Short Range FN-TRAN-GSFP+SR 25 GE SFP28 Transceiver Module, Short Range FN-TRAN-GSFP+SR 26 GE SFP28 Transceiver Module, Long Range FN-TRAN-GSFP+SR 26 GE SFP28 Transceiver Module, Short Range FN-TRAN-GSFP+SR 26 GE SFP28 Transceiver Module, Long Range FN-TRAN-GSFP48 26 GE SFP28 Transceiver Module, Short Range FN-TRAN-GSFP48 27 GE SFP28 Transceiver Module FN-TRAN-GSFP48 28 GE SFP28 Transceiver Module FN-TRAN-GSFP48 29 GE SFP28 Transceiver Module FN-TRAN-GSFP48 20 GE GSFP4 SBIDI Transceiver Module FN-TRAN-GSFP48-SR 100 GE GSFP28 Transceiver Module FN-TRAN-GSFP48-SR 100 GE GSFP48-SR 100 GE GSFP48-SR 100 GE GSFP48-SR 100 GE GSFP48-SR 1	10 GE Copper SFP+ RJ45 Transceiver (30 m Range)	FN-TRAN-SFP+GC	10 GE SFP+ RJ45 transceiver module.
SIGN Connects to FN-TRAN-SFP-BD32, ordered separately).	10 Gbase-ER SFP+ Transceiver Module	FN-TRAN-SFP+ER	10 GE SFP+ transceiver module, extended range.
Solic Connects to FN-TRAN-SFP+BDZ7, ordered separately). 10 GE SFP+ Transceiver Module FN-TRAN-SFP-ZR Solic Separately	10 GE SFP+ Transceiver Module, 30km Long Range	FN-TRAN-SFP+BD27	
Solots. 25 GE SFP28 Transcelver Module, Long Range FN-TRAN-SFP28-LR 25 GET/10 GE Qual rate SFP28 transcelver module, short range for systems with SFP28 slots. 25 GET/10 GE Qual rate SFP28 Transcelver Module, short range for systems with SFP28 slots. 40 GE QSFP+ Transcelver Module, Short Range Sib G-TRAN-QSFP+SR 40 GE QSFP+ transcelvers, short range for systems with QSFP+ slots. 40 GE QSFP+ Transcelver Module, Short Range, Bib G-TRAN-QSFP+SR-BIDI 40 GE QSFP+ transcelvers, short range for systems with QSFP+ slots. 40 GE QSFP+ Transcelver Module, Long Range FN-TRAN-QSFP+SR-BIDI 40 GE QSFP+ transcelvers, short range for systems with QSFP+ slots. 40 GE QSFP+ Transcelver Module, Long Range FN-TRAN-QSFP+SR-BIDI 40 GE QSFP+ transcelvers, long range for systems with QSFP+ slots. 40 GE QSFP+ Transcelver Module FN-TRAN-QSFP+SR-BIDI 50 GET/10		FN-TRAN-SFP+BD33	
25 GE/10 GE Dual Rate SFP28 Transceiver Module, Short Range FN-TRAN-GSFP4-SR SFP28/SFP+ Slots. 40 GE QSFP+ Transceiver Module, Short Range, BiD GE QSFP+ Transceiver Module, Long Range FN-TRAN-QSFP4-R 40 GE QSFP+ transceivers, short range BiD for systems with QSFP+ slots. 40 GE QSFP+ Transceiver Module FN-TRAN-QSFP4-R 40 GE QSFP+ transceiver module, 40km extended range for systems with QSFP+ slots. 40 GE QSFP4 Transceiver Module FN-TRAN-QSFP4-R 40 GE QSFP4 transceiver module, 40km extended range for systems with QSFP+ slots. 100 / 40 GE QSFP28 BiD Transceiver Module FN-TRAN-QSFP28-BiD 100 GE QSFP28 Transceiver module, 40km extended range for systems with QSFP4 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-SR 100GE QSFP28 transceiver module, 4 channel parallel fiber, short range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module, Long Range FN-TRAN-QSFP28-BID 100 GE QSFP28 transceiver module, 4 channel parallel fiber, 10km long range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-CWDM4 100 GE QSFP28 transceiver module, 5 channel parallel fiber, 10km long range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-BID 100 GE QSFP28 transceiver module, 5 channel parallel fiber, 10km long range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-BID 100 GE QSFP28 transceiver module, 5 channel parallel fiber, 10km long range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-BID 100 GE QSFP28 transceiver module, short range BID 100 GE QSFP28 BID 1 transceiver module, short range BID 100 GE QSFP28 BID 1 transceiver module, short range BID 100 GE QSFP28 BID 1 transceiver module, short range for systems with QSFP4 slots. QSFP28 slots. QSFP28 transceiver module, short range for systems with QSFP4 slots. 40	10 GE SFP+ Transceiver Module	FN-TRAN-SFP+ZR	
Short Range FN-TRAN-QSFP+SR 40 GE QSFP+ transceiver Module, Short Range, BIDI FG-TRAN-QSFP+SR-BIDI 40 GE QSFP+ transceivers, short range BIDI for systems with QSFP+ slots. 40 GE QSFP+ transceiver Module, Short Range, BIDI FG-TRAN-QSFP+SR-BIDI 40 GE QSFP+ transceivers, short range BIDI for systems with QSFP+ slots. 40 GE QSFP+ Transceiver Module, Long Range FN-TRAN-QSFP+LR 40 GE QSFP+ transceiver module, 40km extended range for systems with QSFP+ slots. 40 GE QSFP28 BIDI Transceiver Module FN-TRAN-QSFP28-BIDI FN-TRAN-Q	25 GE SFP28 Transceiver Module, Long Range	FN-TRAN-SFP28-LR	25 GE SFP28 transceiver module, long range for systems with SFP28 slots.
40 GE QSFP+ Transceiver Module, Short Range, BiDI FG-TRAN-QSFP+SR-BiDI 40 GE QSFP+ transceivers, short range BiDI for systems with QSFP+ slots. 40 GE QSFP+ Transceiver Module FN-TRAN-QSFP+LR 40 GE QSFP+ transceiver module, 40km extended range for systems with QSFP+/QSFP28 slots. 100 / 40 GE QSFP28 BiDI Transceiver Module FN-TRAN-QSFP28-BiDI 100 GE / 40 GE QSFP28 BiDI transceiver module, short range, for systems with QSFP+8 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-BiDI 100 GE / 40 GE QSFP28 BiDI transceiver module, short range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-BiDI 100 GE QSFP28 transceiver module, 4 channel parallel fiber, short range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module, Long Range FN-TRAN-QSFP28-LR 100 GE QSFP28 transceiver module, 4 channel parallel fiber, 10km long range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-CWDM4 100 GE QSFP28 transceiver module, LC connectors, 2kM for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module, short range FN-TRAN-QSFP28-BiDI-1 100 GE QSFP28 transceiver module, short range BiDI 100 GE QSFP28 BiDI transceiver module, short range BiDI 100 GE QSFP28 BiDI transceiver module, short range BiDI 100 GE QSFP28 BiDI transceiver module, short range BiDI 100 GE QSFP28 BiDI transceiver module, short range BiDI 100 GE QSFP28 BiDI transceiver module, short range BiDI 100 GE QSFP28 BiDI transceiver module, short range BiDI 100 GE QSFP28 BiDI transceiver module, short range BiDI 100 GE QSFP28 BiDI transceiver module, short range BiDI 100 GE QSFP28		FN-TRAN-SFP28-SR	
40 GE QSFP+ Transceiver Module, Long Range FN-TRAN-QSFP+ER 40 GE QSFP+ transceiver Module, 40km extended range for systems with QSFP+ Slots. 100 / 40 GE QSFP28 BIDI Transceiver Module FN-TRAN-QSFP28-BIDI F	40 GE QSFP+ Transceiver Module, Short Range	FN-TRAN-QSFP+SR	40 GE QSFP+ transceivers, short range for systems with QSFP+ slots.
40 GE QSFP+ Transceiver Module FN-TRAN-QSFP+ER 40GE QSFP+ transceiver module, 40km extended range for systems with QSFP+QSFP28 slots. 100 / 40 GE QSFP28 BIDI Transceiver Module FN-TRAN-QSFP28-BIDI 100 GE QSFP28 BIDI transceiver module, short range, for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-SR 100GE QSFP28 transceiver module, 4 channel parallel fiber, short range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module, Long Range FN-TRAN-QSFP28-LR 100GE QSFP28 transceiver module, 4 channel parallel fiber, 10km long range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-CWDM4 100GE QSFP28 transceiver module, LC connectors, 2KM for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module, short range BIDI 100 GE QSFP28 BIDI transceiver module, short range BIDI 100 GE QSFP28 BIDI	40 GE QSFP+ Transceiver Module, Short Range, BiDi	FG-TRAN-QSFP+SR-BIDI	40 GE QSFP+ transceivers, short range BiDi for systems with QSFP+ slots.
100 / 40 GE QSFP28 BIDI Transceiver Module FN-TRAN-QSFP28-BIDI 100 GE QSFP28 Transceiver Module, short range, for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module, Long Range FN-TRAN-QSFP28-LR 100 GE QSFP28 transceiver module, 4 channel parallel fiber, 10km long range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-CWDM4 100 GE QSFP28 transceiver module, 4 channel parallel fiber, 10km long range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-CWDM4 100 GE QSFP28 transceiver module, LC connectors, 2KM for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module, short range BIDI 100 GE QSFP28 Transceiver Module, short range BIDI 100 GE QSFP28 blDI transceiver module, short range, for 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 systems with QSFP28 slots. Optional Cables SKU Description 40 GE QSFP4 Passive Direct Attach Cable 1 m SP-CABLE-FS-QSFP4 40 GE QSFP4 Passive Direct Attach Cable, 1 m for systems with QSFP4 slots. 40 GE QSFP4 Passive Direct Attach Cable 5 m SP-CABLE-FS-QSFP4 40 GE QSFP4 Passive Direct Attach Cable, 3 m for systems with QSFP4 slots. 40 GE QSFP4 to 4x SFP4/SFP28 optical breakout 1 m 40G/100G QSFP4/GSFP28 to SFP4/SFP28 Parallel Breakout 1 m 40G/100G QSFP4/GSFP28 to SFP4/SFP28 Parallel Breakout 1 m 40G/100G QSFP4/GSFP28 to SFP4/SFP28 Passive Direct Attach Cable 100 GE QSFP28 Breakout to 4x 25 GE SFP28 Passive Direct Attach Cable FN-CABLE-QSFP28-4SFP28-3 100 GE QSFP28 breakout to 4x 25 GE SFP28 passive direct attach cable, 3 m. 200 GE QSFP28 Breakout to 4x 25 GE SFP28 FN-CABLE-QSFP28-4SFP28-5 100 GE QSFP28 breakout to 4x 25 GE SFP28 passive direct attach cable, 5 m.	40 GE QSFP+ Transceiver Module, Long Range	FN-TRAN-QSFP+LR	40 GE QSFP+ transceivers, long range for systems with QSFP+ slots.
100 GE QSFP28 Transceiver Module, Long Range FN-TRAN-QSFP28-LR 100 GE QSFP28 transceiver module, 4 channel parallel fiber, 10km long range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-LR 100 GE QSFP28 transceiver module, 4 channel parallel fiber, 10km long range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-CWDM4 100 GE QSFP28 transceiver module, LC connectors, 2KM for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-BIDI-I 100 GE QSFP28 transceiver module, short range BiDi 100 GE QSFP28 BIDI	40 GE QSFP+ Transceiver Module	FN-TRAN-QSFP+ER	40GE QSFP+ transceiver module, 40km extended range for systems with QSFP+/QSFP28 slots.
Solts. 100 GE QSFP28 Transceiver Module, Long Range FN-TRAN-QSFP28-LR 100GE QSFP28 transceiver module, 4 channel parallel fiber, 10km long range for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module, short range FN-TRAN-QSFP28-CWDM4 100GE QSFP28 transceiver module, LC connectors, 2kM for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module, short range BiDi 100 GE QSFP28 BIDI transceiver module, short range BiDi 100 GE QSFP28 BIDI transceiver module, short range BiDi 100 GE QSFP28 BIDI transceiver module, short range BiDi 100 GE QSFP28 BIDI transceiver module, short range BiDi 100 GE QSFP28 BIDI transceiver module, short range, for systems with QSFP28 slots. 100GE QSFP28 slots. 10	100 / 40 GE QSFP28 BIDI Transceiver Module	FN-TRAN-QSFP28-BIDI	100 GE / 40 GE QSFP28 BIDI transceiver module, short range, for systems with QSFP28 slots.
QSFP28 Slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-CWDM4 100GE QSFP28 transceiver module, LC connectors, 2KM for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module, short range BIDI 100 GE QSFP28 BIDI transceiver module, short range BiDI 100 GE QSFP28 BIDI transceiver module, short range, for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-DR 100GE QSFP28 transceiver module, single channel single-mode fiber,100GBase-DR for systems with QSFP28 slots. Optional Cables SKU Description 40 GE QSFP4 Passive Direct Attach Cable 1 m SP-CABLE-FS-QSFP+1 40GE QSFP4 Passive Direct Attach Cable, 1 m for systems with QSFP4 slots. 40 GE QSFP4 Passive Direct Attach Cable 3 m SP-CABLE-FS-QSFP+3 40GE QSFP4 Passive Direct Attach Cable, 3 m for systems with QSFP4 slots. 40 GE QSFP4 Passive Direct Attach Cable 5 m SP-CABLE-FS-QSFP+5 40GE QSFP4 Passive Direct Attach Cable, 5 m for systems with QSFP4 slots. 40 G100G QSFP4 to 4x SFP4/SFP28 optical FG-TRAN-QSFP4XSFP 40G/100G QSFP4 to 4x SFP4/SFP28 optical breakout 1 m 40G/100G QSFP4/QSFP28 to SFP4/SFP28 praslive Direct Attach Cable 5 m SP-CABLE-GSFP28-4SFP28-1 100 GE QSFP28 breakout to 4x 25 GE SFP28 passive direct attach cable, 1 m. 100 GE QSFP28 Breakout to 4x 25 GE SFP28 FN-CABLE-QSFP28-4SFP28-1 100 GE QSFP28 breakout to 4x 25 GE SFP28 passive direct attach cable, 3 m. 100 GE QSFP28 Breakout to 4x 25 GE SFP28 100 GE QSFP28 Breakout to 4x 25 GE SFP28 passive direct attach cable, 3 m.	100 GE QSFP28 Transceiver Module	FN-TRAN-QSFP28-SR	
100 GE QSFP28 Transceiver Module, short range BiDi 100 GE QSFP28 BiDi transceiver module, short range in the page to the page to the page transceiver module, short range in the page to the page transceiver module, short range in the p	100 GE QSFP28 Transceiver Module, Long Range	FN-TRAN-QSFP28-LR	
range, for systems with QSFP28 slots. 100 GE QSFP28 Transceiver Module FN-TRAN-QSFP28-DR 100 GE QSFP28 transceiver module, single channel single-mode fiber,100 GBase-DR for systems with QSFP28 slots. Optional Cables SKU Description 40 GE QSFP+ Passive Direct Attach Cable 1 m SP-CABLE-FS-QSFP+1 40 GE QSFP+ Passive Direct Attach Cable 3 m SP-CABLE-FS-QSFP+3 40 GE QSFP+ Passive Direct Attach Cable 5 m SP-CABLE-FS-QSFP+5 40 GE QSFP+ Passive Direct Attach Cable 5 m SP-CABLE-FS-QSFP+5 40 GE QSFP+ Passive Direct Attach Cable, 5 m for systems with QSFP+ slots. 40 G100 G QSFP+ to 4x SFP+/SFP28 optical breakout 1 m 40G/100G QSFP+/QSFP28 to SFP+/SFP28 preakout 1 m 40G/100G QSFP+/QSFP28 to SFP+/SFP28 preakout 1 m 40G/100G QSFP+/QSFP28 breakout to 4x 25 GE SFP28 passive direct attach cable, 1 m. 100 GE QSFP28 Breakout to 4x 25 GE SFP28 Passive Direct Attach Cable FN-CABLE-QSFP28-4SFP28-1 100 GE QSFP28 Breakout to 4x 25 GE SFP28 FN-CABLE-QSFP28-4SFP28-3 FN-CABLE-QSFP28-4SFP28-3 100 GE QSFP28 breakout to 4x 25 GE SFP28 passive direct attach cable, 3 m. 100 GE QSFP28 Breakout to 4x 25 GE SFP28 FN-CABLE-QSFP28-4SFP28-5 100 GE QSFP28 breakout to 4x 25 GE SFP28 passive direct attach cable, 5 m.	100 GE QSFP28 Transceiver Module	FN-TRAN-QSFP28-CWDM4	100GE QSFP28 transceiver module, LC connectors, 2KM for systems with QSFP28 slots.
Optional Cables SKU Description 40 GE QSFP+ Passive Direct Attach Cable 1 m SP-CABLE-FS-QSFP+1 40 GE QSFP+ Passive Direct Attach Cable, 1 m for systems with QSFP+ slots. 40 GE QSFP+ Passive Direct Attach Cable 3 m SP-CABLE-FS-QSFP+3 40 GE QSFP+ Passive Direct Attach Cable, 3 m for systems with QSFP+ slots. 40 GE QSFP+ Passive Direct Attach Cable 5 m SP-CABLE-FS-QSFP+5 40 GE QSFP+ Passive Direct Attach Cable, 5 m for systems with QSFP+ slots. 40 GE QSFP+ Passive Direct Attach Cable, 5 m for systems with QSFP+ slots. 40 GE QSFP+ to 4x SFP+/SFP28 optical breakout 1 m 40 G/100 G QSFP+/QSFP28 to SFP+/SFP28 preakout 1 m 40 G/100 G QSFP+/QSFP28 to SFP+/SFP28 parallel Breakout MPO to 4xLC connectors, 1 m reach, transceivers not included. 100 GE QSFP28 Breakout to 4x 25 GE SFP28 FN-CABLE-QSFP28-4SFP28-1 100 GE QSFP28 Breakout to 4x 25 GE SFP28 FN-CABLE-QSFP28-4SFP28-3 100 GE QSFP28 breakout to 4x 25 GE SFP28 passive direct attach cable, 3 m. 100 GE QSFP28 Breakout to 4x 25 GE SFP28 FN-CABLE-QSFP28-4SFP28-3 100 GE QSFP28 breakout to 4x 25 GE SFP28 passive direct attach cable, 5 m.		FN-TRAN-QSFP28-BIDI-I	
40 GE QSFP+ Passive Direct Attach Cable 1 m SP-CABLE-FS-QSFP+1 40GE QSFP+ Passive Direct Attach Cable, 1 m for systems with QSFP+ slots. 40 GE QSFP+ Passive Direct Attach Cable 3 m SP-CABLE-FS-QSFP+3 40GE QSFP+ Passive Direct Attach Cable, 3 m for systems with QSFP+ slots. 40 GE QSFP+ Passive Direct Attach Cable, 5 m for systems with QSFP+ slots. 40G/100G QSFP+ to 4x SFP+/SFP28 optical breakout 1m 40G/100G QSFP+/QSFP28 to SFP+/SFP28 preakout 1 m 40G/100G QSFP+/QSFP28 preakout 1 m 40G/100G QSFP+/QSFP28 preakout 1 m 40G/100G QSFP+/QSFP28 preakout 1 m 40G/100G QSFP+/SFP28 preakout 1 m 40G/100G QSFP+/SFP28 preakout 1 m 40G/100G QSFP28 preakout 1 m 40G/100G QSFP+/SFP28 preakout 1 m 40G/100G QSFP28 pr	100 GE QSFP28 Transceiver Module	FN-TRAN-QSFP28-DR	
40 GE QSFP+ Passive Direct Attach Cable 3 m SP-CABLE-FS-QSFP+3 40GE QSFP+ Passive Direct Attach Cable, 3 m for systems with QSFP+ slots. 40 GE QSFP+ Passive Direct Attach Cable, 5 m for systems with QSFP+ slots. 40G/100G QSFP+ to 4x SFP+/SFP28 optical breakout 1m 40G/100G QSFP+/QSFP28 to SFP+/SFP28 preakout 1m 40G/100G QSFP+ to 4x SFP+/SFP28 optical breakout 1m 40G/100G QSFP+/QSFP28 to SFP+/SFP28 preakout 1m 40G/100G QSFP+/QSFP28 preakout 1m 40G/100G QSFP+/SFP28 preakout 1m 40G/100G QSFP+/SFP28 preakout 1m 40G/100G QSFP+/SFP28 preakout 1m 40G/100G QSFP28 pr	Optional Cables	SKU	Description
40 GE QSFP+ Passive Direct Attach Cable 5 m SP-CABLE-FS-QSFP+5 40GE QSFP+ Passive Direct Attach Cable, 5 m for systems with QSFP+ slots. 40G/100G QSFP+ to 4x SFP+/SFP28 optical breakout 1m 40G/100G QSFP+/QSFP28 to SFP+/SFP28 parallel Breakout 1m 40G/100G QSFP+/QSFP28 to SFP+/SFP28 parallel Breakout 1m 40G/100G QSFP+/QSFP28 to SFP+/SFP28 parallel Breakout MPO to 4xLC connectors, 1m reach, transceivers not included. 100 GE QSFP28 Breakout to 4× 25 GE SFP28 passive direct attach cable, 1m. 100 GE QSFP28 Breakout to 4× 25 GE SFP28 passive direct attach cable, 3m. 100 GE QSFP28 Breakout to 4× 25 GE SFP28 passive direct attach cable, 3m. 100 GE QSFP28 Breakout to 4× 25 GE SFP28 passive direct attach cable, 5m.	40 GE QSFP+ Passive Direct Attach Cable 1 m	SP-CABLE-FS-QSFP+1	40GE QSFP+ Passive Direct Attach Cable, 1 m for systems with QSFP+ slots.
40G/100G QSFP+ to 4x SFP+/SFP28 optical breakout 1m 40G/100G QSFP+/QSFP28 to SFP+/SFP28 breakout 1m 40G/100G QSFP+/QSFP28 to SFP+/QSFP28 breakout 1m 40G/100G QSFP+/QSFP28 to SFP+/QSFP28 breakout 1m 40G/100G QSFP+/QSFP28 to SFP28 breakout 1m 40G/100G QSFP+/QSFP28 to SFP+/QSFP28 breakout 1m 40G/100G QSFP+/QSFP28 to SFP+/QSFP28 breakout 1m 40G/100G QSFP+/QSFP28 to SFP28 breakout 1m 40G/100G QSFP+/QSFP28 breakout 1m 40G/100G QSFP28 breakout 1m 40G/100G QSFP28 breakout 1m 40G/100G QSFP28 breakout 1m 40G/100G QSFP28 b	40 GE QSFP+ Passive Direct Attach Cable 3 m	SP-CABLE-FS-QSFP+3	40GE QSFP+ Passive Direct Attach Cable, 3 m for systems with QSFP+ slots.
breakout 1m Parallel Breakout MPO to 4xLC connectors, 1m reach, transceivers not included. 100 GE QSFP28 Breakout to 4× 25 GE SFP28 FN-CABLE-QSFP28-4SFP28-1 100 GE QSFP28 breakout to 4× 25 GE SFP28 passive direct attach cable, 1m. 100 GE QSFP28 Breakout to 4× 25 GE SFP28 passive direct attach cable, 3m. Passive Direct Attach Cable FN-CABLE-QSFP28-4SFP28-3 100 GE QSFP28 breakout to 4× 25 GE SFP28 passive direct attach cable, 3m. 100 GE QSFP28 Breakout to 4× 25 GE SFP28 FN-CABLE-QSFP28-4SFP28-5 100 GE QSFP28 breakout to 4× 25 GE SFP28 passive direct attach cable, 5m.	40 GE QSFP+ Passive Direct Attach Cable 5 m	SP-CABLE-FS-QSFP+5	40GE QSFP+ Passive Direct Attach Cable, 5 m for systems with QSFP+ slots.
Passive Direct Attach Cable 100 GE QSFP28 Breakout to 4× 25 GE SFP28 Passive Direct Attach Cable 100 GE QSFP28 Breakout to 4× 25 GE SFP28 Passive Direct Attach Cable 100 GE QSFP28 Breakout to 4× 25 GE SFP28 FN-CABLE-QSFP28-4SFP28-5 100 GE QSFP28 breakout to 4× 25 GE SFP28 passive direct attach cable, 5m.		FG-TRAN-QSFP-4XSFP	
Passive Direct Attach Cable 100 GE QSFP28 Breakout to 4× 25 GE SFP28 FN-CABLE-QSFP28-4SFP28-5 100 GE QSFP28 breakout to 4× 25 GE SFP28 passive direct attach cable, 5m.		FN-CABLE-QSFP28-4SFP28-1	100 GE QSFP28 breakout to 4× 25 GE SFP28 passive direct attach cable, 1m.
		FN-CABLE-QSFP28-4SFP28-3	100 GE QSFP28 breakout to 4× 25 GE SFP28 passive direct attach cable, 3m.
		FN-CABLE-QSFP28-4SFP28-5	100 GE QSFP28 breakout to 4× 25 GE SFP28 passive direct attach cable, 5m.



Subscriptions

				Bundles	
Service Category	Service Offering	A-la-carte	Enterprise Protection	Unified Threat Protection	Advanced Threat Protection
FortiGuard Security Services	IPS — IPS, Malicious/Botnet URLs	•	•	•	•
	Anti-Malware Protection (AMP)—AV, Botnet Domains, Mobile Malware, Virus Outbreak Protection, Content Disarm and Reconstruct ³ , Al-based Heurestic AV, FortiGate Cloud Sandbox	•	•	•	•
	URL, DNS and Video Filtering — URL, DNS and Video ³ Filtering, Malicious Certificate	•	•	•	
	Anti-Spam		•	•	
	Al-based Inline Malware Prevention ³	•	•		
	Data Loss Prevention (DLP) 1	•	•		
	Attack Surface Security — IoT Device Detection, IoT Vulnerability Correlation and Virtual Patching, Security Rating, Outbreak Check	•	•		
	OT Security—OT Device Detection, OT vulnerability correlation and Virtual Patching, OT Application Control and IPS ¹	•			
	Application Control		included with FortiCare Subscription		
	Inline CASB ³		included with FortiCare Subscription		
SD-WAN and SASE Services	SD-WAN Underlay Bandwidth and Quality Monitoring	•			
	SD-WAN Overlay-as-a-Service	•			
	SD-WAN Connector for FortiSASE Secure Private Access	•			
	SASE connector for FortiSASE Secure Edge Management (with 10Mbps Bandwidth) ²	•			
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 ²	•			
	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 Fort	iCare Subscription	

^{1.} Full features available when running FortiOS 7.4.1.

^{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

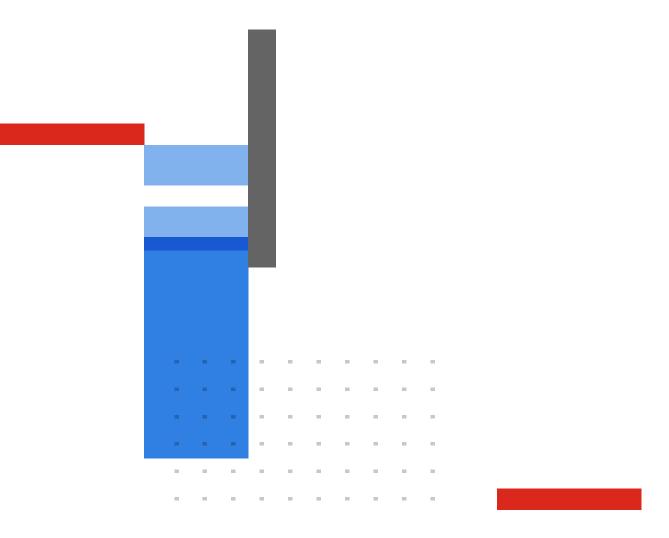
Fortinet prioritizes customer success through FortiCare Services, optimizing the Fortinet Security Fabric solution. Our comprehensive lifecycle services include Design, Deploy, Operate, Optimize, and Evolve. The FortiCare Elite, one of the service variants, offers heightened SLAs and swift issue resolution 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.



^{2.} Desktop Models only.

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.





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