

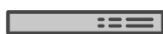
FortiSwitch™ Campus Core and Data Center

E Series: FS-1024E, FS-T1024E, FS-1048E

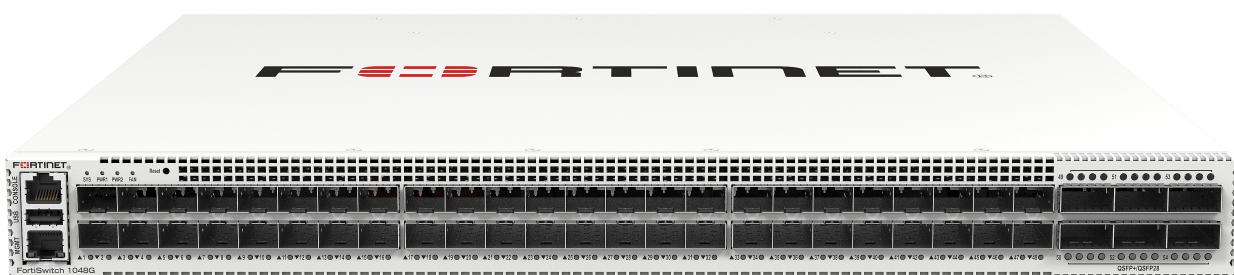
F Series: FS-T1024F-FPOE, FS-2048F, FS-2048F-B2F

G Series: FS-1048G, FS-3032G

Available in



Appliance



Highlights

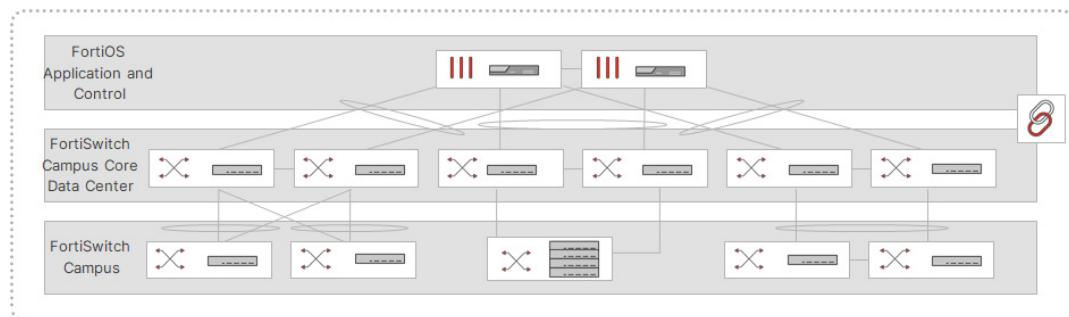
- High throughput with low latency
- Standalone or Integrated deployment options
- Zero-touch deployment
- On-premise and cloud-based management
- Intuitive management
- Access control and policy enforcement
- Scalable and flexible
- Dual hot-swappable power supplies
- Up to 48 access ports in a compact 1 RU form

The FortiSwitch™ campus core and data center family excel in performance, security, and resiliency, making them the optimal choice for both campus core and data center networking needs.

The proliferation of virtualization, cloud computing, and the increasing volume of data generated by users and IoT devices has necessitated dense high-bandwidth Ethernet networking and aggregation. In these environments, the paramount concerns are data security, performance, and resiliency. These dynamic settings demand efficient network management, monitoring, and optimization efforts while simplifying overall network complexity. The FortiSwitch campus core and data center switching architecture empowers network administrators with the requisite performance, control, and manageability for these demanding scenarios. Its seamless security integration and user-friendly management interface establish a robust foundation for your next-generation campus core or data center.

Secure Networking with FortiLink

FortiLink is an innovative proprietary management protocol, enabling seamless integration and centralized management between a FortiGate Next-Generation Firewall and the FortiSwitch Ethernet switching platform. FortiLink transforms the FortiSwitch into a logical extension of the FortiGate, streamlining the management of the both Ethernet data center and network security functions via unified interface. Offering high performance with low latency, FortiGate NGFW and FortiSwitch campus core and data center switching can support the demands of high-speed traffic inspection and segmentation.



Segmentation and Policy Enforcement

FortiSwitch campus core and data center switching architecture can augment and further the security policies at the FortiSwitch access switch layer and enable high speed data traffic segmentation through FortiLink. This process grants IT administrators control over traffic within segments and limits threat exposure. Policy enforcement is simplified, while next-generation firewall (NGFW)-level policies ensure effective security at the core of your network.

SASE

The FortiSwitch enterprise architecture establishes a foundation for zero-trust network access (ZTNA) and secure access service edge (SASE), offering flexibility in deploying the desired level of security at the network edge.

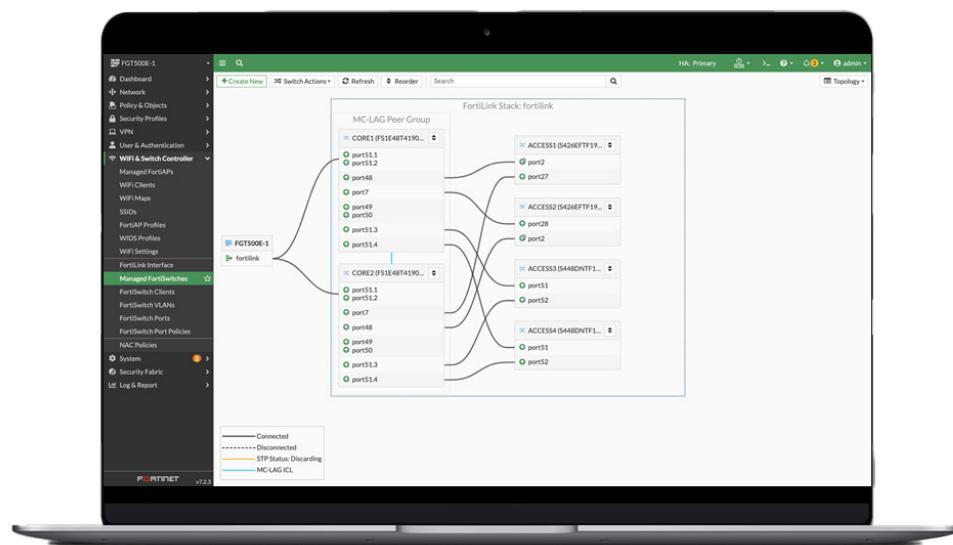
Operational Simplicity

FortiSwitch switching architecture enables secure deployment and management within minutes through zero-touch deployment. Whether in standalone or FortiLink mode, automation and orchestration offer intuitive workflows and unified views for provisioning, management, and optimization, accessible through both FortiCloud and on-premises management.

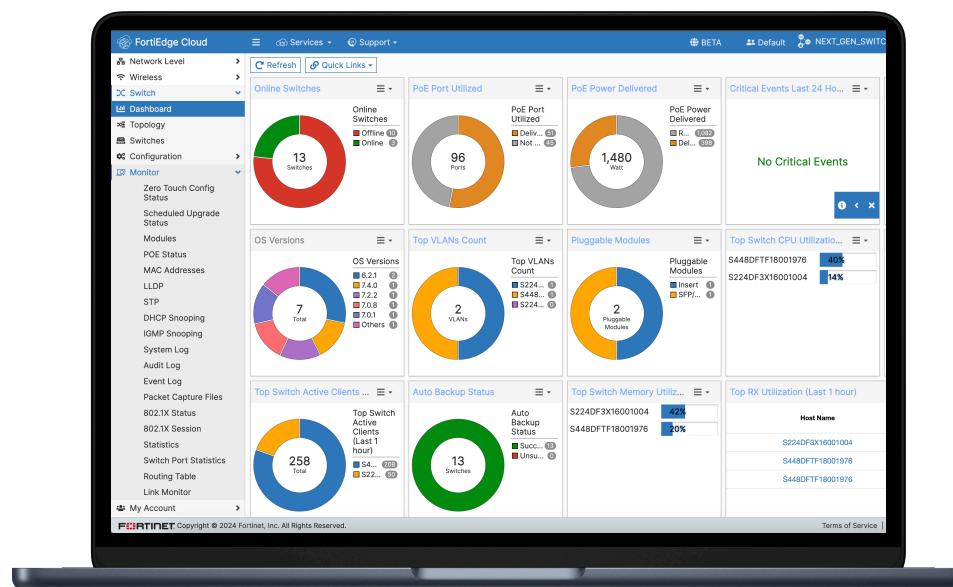
Centralized management provides a unified, single view encompassing both the LAN and security, ensuring a consistent user experience that optimizes operational efficiency while simplifying management, optimization, and troubleshooting. This activity results in a reduced mean time to repair for both network and security issues.

Scalable and Flexible Campus Core and Data Center

FortiSwitch enterprise architecture scales effortlessly to meet the demands of today's next-generation campus cores and data centers, all without compromising on security. Supporting up to 48 ports within a compact 1 RU form factor, FortiSwitch minimizes rack space usage while delivering the requisite performance and scalability. Each switch series in the campus core and data center family offers models that enable the administrator to choose the appropriate media for their environment through a wide range of Fortinet transceivers. This feature also applies to the uplinks, with speeds up to 100 GE supporting various media.



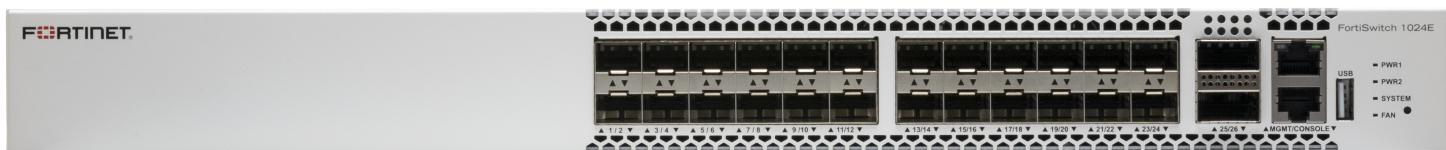
Campus Core and Data Center FortiOS



Campus Core and Data Center Cloud



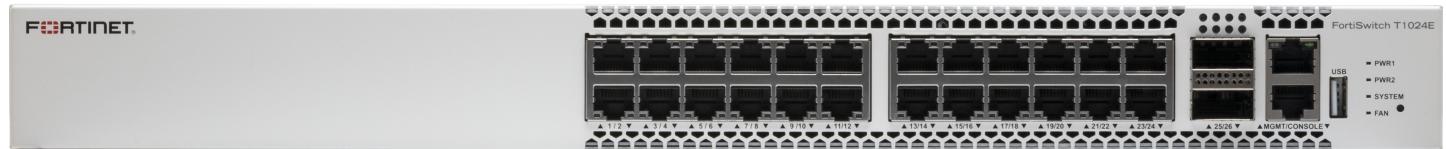
Hardware



FortiSwitch-1024E — Front



FortiSwitch-1024E — Back



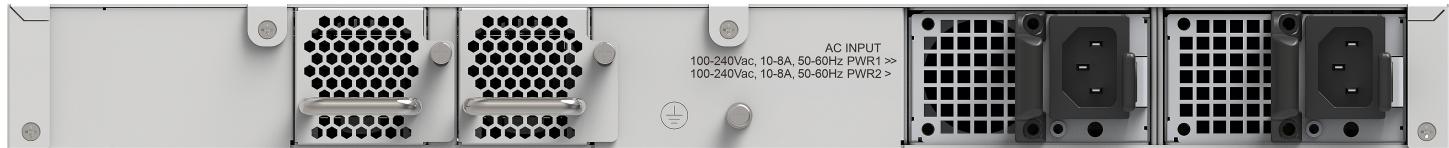
FortiSwitch-T1024E — Front



FortiSwitch-T1024E — Back

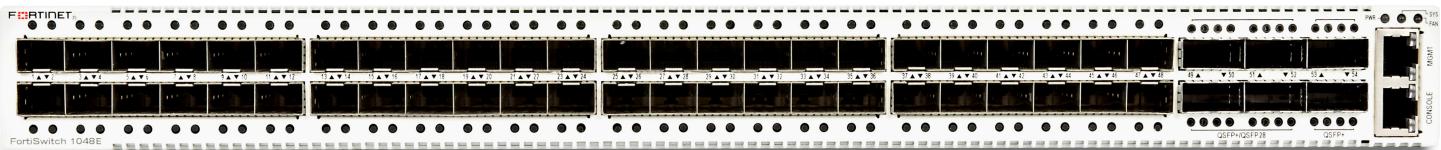


FortiSwitch-T1024F-FPOE — Front



FortiSwitch-T1024F-FPOE — Back

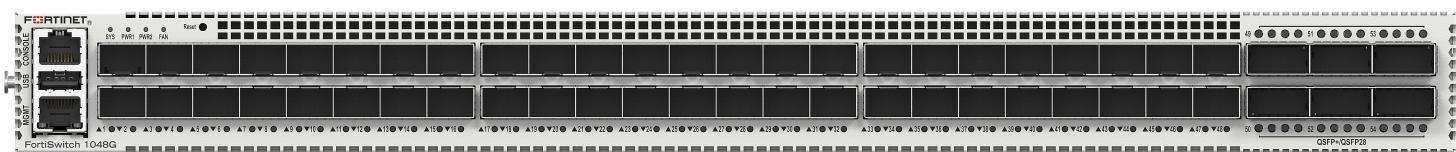
Hardware



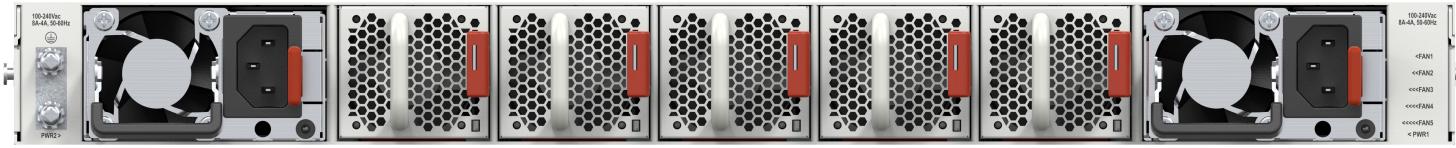
FortiSwitch-1048E — Front



FortiSwitch-1048E — Back



FortiSwitch-1048G — Front



FortiSwitch-1048G — Back

Hardware



FortiSwitch-2048F — Front



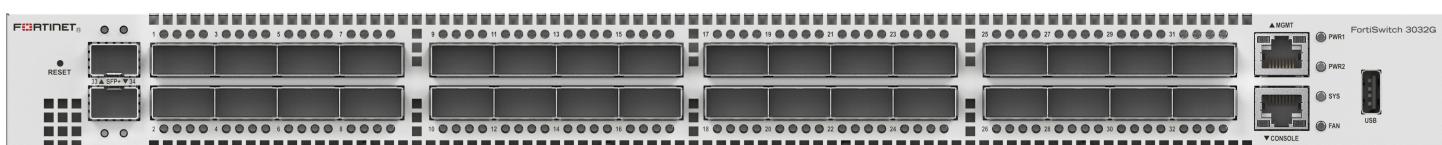
FortiSwitch-2048F — Back



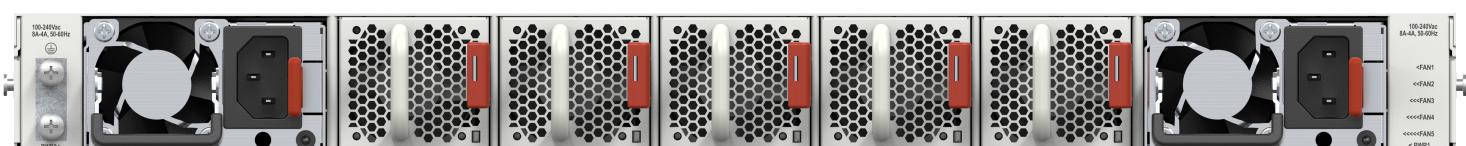
FortiSwitch-2048F-B2F — Front



FortiSwitch-2048F-B2F — Back



FortiSwitch-3032G — Front



FortiSwitch-3032G — Back

Features

FORTISWITCH E/F/G-SERIES FORTILINK MODE (WITH FORTIGATE)	
Management and Configuration	✓
Auto Discovery of Multiple Switches	✓
Automated Detection and Recommendations	✓
Centralized VLAN Configuration	✓
Dynamic Port Profiles for FortiSwitch ports	✓
FortiLink Stacking (Auto Inter-Switch Links)	✓
FortiLink Secure Fabric	✓
FortiSwitch Management over VXLAN	✓
Health Monitoring	✓
IGMP Snooping	✓
L3 Routing and Services	✓ (FortiGate)
Link Aggregation Configuration	✓
LLDP/MED	✓
Number of Managed Switches per FortiGate	8 to 300 Depending on FortiGate Model (Please refer to admin-guide)
Policy-Based Routing	✓ (FortiGate)
Provision firmware upon authorization	✓
Software Upgrade of Switches	✓
Spanning Tree	✓
Switch POE Control	✓
Virtual Domain	✓ (FortiGate)
Security and Visibility	
802.1X Authentication (Port-based, MAC-Based, MAB)	✓
Block Intra-VLAN Traffic	✓
Clients Monitoring	✓
Device Detection	✓
DHCP Snooping	✓
DHCP/ARP Monitor	✓
FortiGuard IoT Identification	✓
FortiSwitch recommendations in Security Rating	✓
FortiSwitch VLANs over VXLAN	✓
Host Quarantine on Switch Port	✓
Integrated FortiGate Network Access Control (NAC) function	✓
MAC Black/White Listing	✓ (FortiGate)
NAC Device Telemetry	✓
Network Device Detection	✓
Policy Control of Users and Devices	✓ (FortiGate)
Port Statistics	✓
Security Fabric Automation	✓
Switch Controller traffic collector	✓
Syslog Collection	✓
UTM Features	
Firewall	✓ (FortiGate)
IPC, AV, Application Control, Botnet	✓ (FortiGate)
Quality for Service Egress Priority Tagging	✓
Quality for Service Explicit Congestion Notification	✓
High Availability	
Active-Active Split LAG from FortiGate to FortiSwitches for Advanced Redundancy	✓
LAG Support for FortiLink Connection	✓
Support FortiLink FortiGate in HA Cluster	✓

Features

	FS-T1024F-FPOE	FS-1024E FS-T1024E	FS-1048E FS-1048G	FS-2048F FS-2048F-B2F	FS-3032G
Layer 2					
Auto-Negotiation for Port Speed and Duplex	✓	✓	✓	✓	✓
Auto Topology	✓	✓	✓	✓	✓
Dynamically shared packet buffers	✓	✓	✓	✓	✓
Edge Port / Port Fast	✓	✓	✓	✓	✓
IEEE 802.1ad QinQ	✓	✓	✓	✓	✓
IEEE 802.1AX Link Aggregation	✓	✓	✓	✓	✓
IEEE 802.1D MAC Bridging/STP	✓	✓	✓	✓	✓
IEEE 802.1Q VLAN Tagging	✓	✓	✓	✓	✓
IEEE 802.1Qbb Priority-based Flow Control	✓	✓	✓	✓	✓
IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)	✓	✓	✓	✓	✓
IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)	✓	✓	✓	✓	✓
IEEE 802.3 CSMA/CD Access Method and Physical Layer Specifications	✓	✓	✓	✓	✓
IEEE 802.3ab 1000Base-T	✓	✓	✓	✓	✓
IEEE 802.3ad Link Aggregation with LACP	✓	✓	✓	✓	✓
IEEE 802.3ae 10 Gigabit Ethernet	✓	✓	✓	✓	✓
IEEE 802.3ba, 802.3bj, 802.3bm 40 and 100 Gigabit Ethernet	✓	✓	✓	✓	✓
IEEE 802.3by 25 Gigabit Ethernet	✓	✓	✓	✓	✓
IEEE 802.3bz Multi Gigabit Ethernet	✓	✓	—	—	—
IEEE 802.3u 100Base-TX	✓	✓	✓	✓	✓
IEEE 802.3x Flow Control and Back-pressure	✓	✓	✓	✓	✓
IEEE 802.3z 1000Base-SX/LX	✓	✓	✓	✓	✓
Ingress Pause Metering	✓	✓	✓	✓	—
Jumbo Frames	✓	✓	✓	✓	✓
LAG Min/Max Bundle	✓	✓	✓	✓	✓
Loop Guard	✓	✓	✓	✓	✓
MAC, IP, Ethertype-based VLANs	✓	✓	✓	✓	✓
PHY Forward Error Correction	✓	✓	✓	✓	✓
Private VLAN	✓	✓	✓	✓	✓
Rapid PVST Interoperation	✓	✓	✓	✓	✓
Spanning Tree Instances (MSTP/CST)	64	64	64	64	64
Split Port	✓	✓	✓ —	—	—
Storm Control	✓	✓	✓	✓	✓
STP BPDU Guard	✓	✓	✓	✓	✓
STP Root Guard	✓	✓	✓	✓	✓
Unicast/Multicast traffic balance over trunking port (dst-ip, dst-mac, src-dst-ip, src-dst-mac, src-ip, src-mac)	✓	✓	✓	✓	✓
Virtual-Wire	✓	✓	✓	✓	✓
VLAN Mapping	✓	✓	✓	✓	✓

Features

	FS-T1024F-FPOE	FS-1024E FS-T1024E	FS-1048E FS-1048G	FS-2048F FS-2048F-B2F	FS-3032G
Layer 3					
Bidirectional Forwarding Detection (BFD)	✓	✓	✓	✓	✓
BGP Ethernet VPN	✓	✓	✓	✓	✓
DHCP Relay	✓	✓	✓	✓	✓
DHCP Server	✓	✓	✓	✓	✓
Dynamic Routing Protocols (IPv4/IPv6)*	OSPF, RIP, VRRP, BGP, ISIS				
ECMP	✓	✓	✓	✓	✓
Filtering Routemaps based on routing protocol	✓	✓	✓	✓	✓
IGMP Proxy / Querier	✓	✓	✓	✓	✓
IGMP Snooping	✓	✓	✓	✓	✓
IP Conflict Detection and Notification	✓	✓	✓	✓	✓
IPv6 Route Filtering	✓	✓	✓	✓	✓
L3 Host Entries (IPv4/IPv6)	16K/6K	16K/6K	16K/11K 16K/8K	16K/8K	16k/16k
MLD Proxy / Querier	✓	✓	✓	✓	✓
MLD Snooping	✓	✓	✓	✓	✓
Multicast Protocols*	PIM-SSM	PIM-SSM	PIM-SSM	PIM-SSM	PIM-SSM
Multicast Route Entries*	8k	8k	8K 16K	8k	16k
Policy-based Routing*	✓	✓	✓	✓	✓
Route Entries (IPv4/IPv6)	8K/4K	8K/4K	14K/6K 16K/8K	16K/8K	16k/8k
Static Routing (Hardware-based)	✓	✓	✓	✓	✓
Unicast Reverse Path Forwarding (uRPF)	✓	✓	✓	✓	✓
VRF*	✓	✓	✓	✓	✓
VXLAN	✓	✓	✓	✓	✓
Security and Visibility					
ACL	3K	3K	4K 3K	3K	2.7k
ACL Multiple Ingress	✓	✓	✓	✓	✓
ACL Multistage	✓	✓	✓	✓	✓
ACL Schedule	✓	✓	✓	✓	✓
Admin Authentication Via RFC 2865 RADIUS	✓	✓	✓	✓	✓
Assign VLANs via Radius attributes (RFC 4675)	✓	✓	✓	✓	✓
DHCP-Snooping	✓	✓	✓	✓	✓
Dynamic ARP Inspection	✓	✓	✓	✓	✓
FIPS 140-2 (level 2) support	✓	✓	✓	✓	✓
Flow Export (NetFlow and IPFIX)	✓	✓	✓	✓	✓
IEEE 802.1ab Link Layer Discovery Protocol (LLDP)	✓	✓	✓	✓	✓
IEEE 802.1ab LLDP-MED	✓	✓	✓	✓	✓
IEEE 802.1ae MAC Security (MAC Sec)	✓	✓	— ✓	—	—
IEEE 802.1X Authentication MAC-based	✓	✓	✓	✓	✓
IEEE 802.1X Authentication Port-based	✓	✓	✓	✓	✓
IEEE 802.1X Dynamic VLAN Assignment	✓	✓	✓	✓	✓
IEEE 802.1X EAP Pass-Through	✓	✓	✓	✓	✓
IEEE 802.1X Guest and Fallback VLAN	✓	✓	✓	✓	✓
IEEE 802.1X MAC Access Bypass (MAB)	✓	✓	✓	✓	✓
IEEE 802.1X Open Auth	✓	✓	✓	✓	✓
IPv6 RA Guard	✓	✓	✓	✓	✓
LLDP-MED ELIN support	✓	✓	✓	✓	✓
MAC-IP Binding	✓	✓	✓	✓	✓
Port Mirroring	✓	✓	✓	✓	✓
RADIUS Accounting	✓	✓	✓	✓	✓
RADIUS CoA	✓	✓	✓	✓	✓
sFlow	✓	✓	✓	✓	✓
Sticky MAC	✓	✓	✓	✓	✓
Wake on LAN	✓	✓	✓	✓	✓

* Requires 'Advanced Features' License



Features

	FS-T1024F-FPOE	FS-1024E FS-T1024E	FS-1048E FS-1048G	FS-2048F FS-2048F-B2F	FS-3032G
High Availability					
Multi-Chassis Link Aggregation (MCLAG)	✓	✓	✓	✓	✓
Multi-Stage Load Balancing	✓	✓	✓	✓	✓
Quality of Service					
Egress Priority Tagging	✓	✓	✓	✓	✓
Explicit Congestion Notification	✓	✓	✓	✓	✓
IEEE 802.1p Based Priority Queuing	✓	✓	✓	✓	✓
IP TOS/DSCP Based Priority Queuing	✓	✓	✓	✓	✓
Percentage Rate Control	✓	✓	✓	✓	✓
Management					
Automation Stitches	✓	✓	✓	✓	✓
Display Average Bandwidth and Allow Sorting on Physical Port / Interface Traffic	✓	✓	✓	✓	✓
Dual Firmware Support	✓	✓	✓	✓	✓
HTTP / HTTPS	✓	✓	✓	✓	✓
IPv4 and IPv6 Management	✓	✓	✓	✓	✓
Link Monitor	✓	✓	✓	✓	✓
Managed from FortiGate	✓	✓	✓	✓	✓
Packet Capture	✓	✓	✓	✓	✓
PoE Control Modes	✓	—	—	—	—
RMON Group 1	✓	✓	✓	✓	✓
SNMP v1/v2c/v3	✓	✓	✓	✓	✓
SNMP v3 traps	✓	✓	✓	✓	✓
SNTP	✓	✓	✓	✓	✓
Software download/upload: SFTP/TFTP/FTP/GUI	✓	✓	✓	✓	✓
SPAN, RSPAN, and ERSPAN	✓	✓	✓	✓	✓
Standard CLI and web GUI interface	✓	✓	✓	✓	✓
Support for HTTP REST APIs for Configuration and Monitoring	✓	✓	✓	✓	✓
Syslog UDP/TCP	✓	✓	✓	✓	✓
System Alias Command	✓	✓	✓	✓	✓
System Temperature and Alert	✓	✓	✓	✓	✓
Telnet / SSH	✓	✓	✓	✓	✓
Services					
IEEE 1588 PTP (Transparent Clock)	✓	✓	✓	✓	✓

RFC Compliance

RFC and MIB Support*

BFD

- RFC 5880: Bidirectional Forwarding Detection (BFD)
- RFC 5881: Bidirectional Forwarding Detection (BFD) for IPv4 and IPv6 (Single Hop)
- RFC 5882: Generic Application of Bidirectional Forwarding Detection (BFD)

BGP

- RFC 1771: A Border Gateway Protocol 4 (BGP-4)
- RFC 1965: Autonomous System Confederations for BGP
- RFC 1997: BGP Communities Attribute
- RFC 2545: Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing
- RFC 2796: BGP Route Reflection - An Alternative to Full Mesh IBGP
- RFC 2842: Capabilities Advertisement with BGP-4
- RFC 2858: Multiprotocol Extensions for BGP-4
- RFC 4271: BGP-4
- RFC 5549: Advertising IPv4 Network Layer Reachability Information with an IPv6 Next Hop
- RFC 6286: Autonomous-System-Wide Unique BGP Identifier for BGP-4
- RFC 6608: Subcodes for BGP Finite State Machine Error
- RFC 6793: BGP Support for Four-Octet Autonomous System (AS) Number Space
- RFC 7432: BGP MPLS-Based Ethernet VPN
- RFC 7606: Revised Error Handling for BGP UPDATE Messages
- RFC 7607: Codification of AS 0 Processing
- RFC 7705: Autonomous System Migration Mechanisms and Their Effects on the BGP AS_PATH Attribute
- RFC 8212: Default External BGP (EBGP) Route Propagation Behavior without Policies
- RFC 8654: Extended Message Support for BGP

DHCP

- RFC 2131: Dynamic Host Configuration Protocol
- RFC 3046: DHCP Relay Agent Information Option
- RFC 7513: Source Address Validation Improvement (SAVI) Solution for DHCP

IP/IPv4

- RFC 2697: A Single Rate Three Color Marker
- RFC 3168: The Addition of Explicit Congestion Notification (ECN) to IP
- RFC 5227: IPv4 Address Conflict Detection
- RFC 5517: Cisco Systems' Private VLANs: Scalable Security in a Multi-Client Environment
- RFC 7039: Source Address Validation Improvement (SAVI) Framework

RFC and MIB Support*

IP Multicast

- RFC 2710: Multicast Listener Discovery (MLD) for IPv6 (MLDv1)
- RFC 3569: An Overview of Source-Specific Multicast (SSM)
- RFC 4541: Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) Snooping Switches
- RFC 4605: Internet Group Management Protocol (IGMP)/Multicast Listener Discovery (MLD)-Based Multicast Forwarding ("IGMP/MLD Proxying")
- RFC 4607: Source-Specific Multicast for IP

IPv6

- RFC 2464: Transmission of IPv6 Packets over Ethernet Networks: Transmission of IPv6 Packets over Ethernet Networks
- RFC 2474: Definition of the Differentiated Services Field (DS Field) in the and IPv6 Headers (DSCP)
- RFC 2893: Transition Mechanisms for IPv6 Hosts and Routers
- RFC 4213: Basic Transition Mechanisms for IPv6 Hosts and Router
- RFC 4291: IP Version 6 Addressing Architecture
- RFC 4443: Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification
- RFC 4861: Neighbor Discovery for IP version 6 (IPv6)
- RFC 4862: IPv6 Stateless Address Auto configuration
- RFC 5095: Deprecation of Type 0 Routing Headers in IPv6
- RFC 6724: Default Address Selection for Internet Protocol version 6 (IPv6)
- RFC 7113: IPv6 RA Guard
- RFC 8200: Internet Protocol, Version 6 (IPv6) Specification
- RFC 8201: Path MTU Discovery for IP version 6

IS-IS

- RFC 1195: Use of OSI IS-IS for Routing in TCP/IP and Dual Environments
- RFC 5308: Routing IPv6 with IS-IS

MIB

- RFC 1213: MIB II parts that apply to FortiSwitch 100 units
- RFC 1354: IP Forwarding Table MIB
- RFC 1493: Bridge MIB
- RFC 1573: SNMP MIB II
- RFC 1643: Ethernet-like Interface MIB

* RFC and MIB supported by FortiSwitch Operating System. Check FortiSwitch [Feature Matrix](#) for model specific support.

RFC Compliance

RFC and MIB Support*

MIB

- RFC 1724: RIPv2-MIB
- RFC 1850: OSPF Version 2 Management Information Base
- RFC 2233: The Interfaces Group MIB using SMIV2
- RFC 2618: Radius-Auth-Client-MIB
- RFC 2620: Radius-Acc-Client-MIB
- RFC 2674: Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN extensions
- RFC 2787: Definitions of Managed Objects for the Virtual Router Redundancy Protocol
- RFC 2819: Remote Network Monitoring Management Information Base
- RFC 2863: The Interfaces Group MIB
- RFC 2932: IPv4 Multicast Routing MIB
- RFC 2934: Protocol Independent Multicast MIB for IPv4
- RFC 3289: Management Information Base for the Differentiated Services Architecture
- RFC 3433: Entity Sensor Management Information Base
- RFC 3621: Power Ethernet MIB
- RFC 6933: Entity MIB (Version 4)

OSPF

- RFC 1583: OSPF version 2
- RFC 1765: OSPF Database Overflow
- RFC 2328: OSPF version 2
- RFC 2370: The OSPF Opaque LSA Option
- RFC 2740: OSPF for IPv6
- RFC 3101: The OSPF Not-So-Stubby Area (NSSA) Option
- RFC 3137: OSPF Stub Router Advertisement
- RFC 3623: OSPF Graceful Restart
- RFC 5340: OSPF for IPv6 (OSPFv3)
- RFC 5709: OSPFv2 HMAC-SHA Cryptographic Authentication
- RFC 6549: OSPFv2 Multi-Instance Extensions
- RFC 6845: OSPF Hybrid Broadcast and Point-to-Multipoint Interface Type
- RFC 6860: Hiding Transit-Only Networks in OSPF
- RFC 7474: Security Extension for OSPFv2 When Using Manual Key Management
- RFC 7503: OSPF for IPv6
- RFC 8042: CCITT Draft Recommendation T.4
- RFC 8362: OSPFv3 Link State Advertisement (LSA) Extensibility

RFC and MIB Support*

OTHER

- RFC 2030: SNTP
- RFC 3176: InMon Corporation's sFlow: A Method for Monitoring Traffic in Switched and Routed Networks
- RFC 3768: VRRP
- RFC 3954: Cisco Systems NetFlow Services Export Version 9
- RFC 5101: Specification of the IP Flow Information Export (IPFIX) Protocol for the Exchange of Flow Information
- RFC 5798: VRRPv3 (IPv4 and IPv6)

RADIUS

- RFC 2865: Admin Authentication Using RADIUS
- RFC 2866: RADIUS Accounting
- RFC 4675: RADIUS Attributes for Virtual LAN and Priority Support
- RFC 5176: Dynamic Authorization Extensions to Remote Authentication Dial In User Service (RADIUS)

RIP

- RFC 1058: Routing Information Protocol
- RFC 2080: RIPng for IPv6
- RFC 2082: RIP-2 MD5 Authentication
- RFC 2453: RIPv2
- RFC 4822: RIPv2 Cryptographic Authentication

SNMP

- RFC 1157: SNMPv1/v2c
- RFC 2571: Architecture for Describing SNMP
- RFC 2572: SNMP Message Processing and Dispatching
- RFC 2573: SNMP Applications
- RFC 2576: Coexistence between SNMP versions

VXLAN

- RFC 7348: Virtual eXtensible Local Area Network (VXLAN)

* RFC and MIB supported by FortiSwitch Operating System. Check FortiSwitch [Feature Matrix](#) for model specific support.

Specifications

	FORTISWITCH 1024E	FORTISWITCH T1024E	FORTISWITCH T1024F-FPOE
Hardware Specifications			
Total Network Interfaces	24× 10G/1G SFP+/SFP ports and 2× 100G/40G QSFP28/QSFP+ ports	24× 10G/5G/2.5G/1G/100M BASE-T ports and 2× 100G/40G QSFP28/QSFP+ ports	24× 10G/5G/2.5G/1G/100M BASE-T ports and 2× 100G/40G QSFP28/QSFP+ ports
10/100/1000 Service Ports	1	1	1
RJ-45 Serial Console Port	1	1	1
Form Factor	1 RU Rack Mount	1 RU Rack Mount	1 RU Rack Mount
Power over Ethernet (PoE) Ports	—	—	24 (802.3 af/at/bt type 4)
PoE Power Budget	—	—	1440 W
System Specifications			
Switching Capacity (Duplex)	880 Gbps	880 Gbps	880 Gbps
Packets Per Second (Duplex) 64 bytes	1309 Mpps	1309 Mpps	1309 Mpps
Mac Address Storage	64 K	64 K	64 K
Network Latency	~1µs	~1µs	~1µs
VLANs Supported	4 K	4 K	4 K
IPv4/IPv6 Routing	✓	✓	✓
Link Aggregation Group Size	Up to 24	Up to 24	Up to 24
Total Link Aggregation Groups	Up to number of ports	Up to number of ports	Up to number of ports
Queues/Port	8	8	8
Packet Buffers	8 MB	8 MB	8 MB
Memory	8GB DDR4	8GB DDR4	8GB DDR4
Flash	32MB NOR	32MB NOR	32MB NOR
Drive	8GB SSD	8GB SSD	8GB SSD
Dimensions			
Height x Depth x Width (inches)	1.73 × 16.14 × 17.32	1.73 × 16.14 × 17.32	1.73 × 16.14 × 17.32
Height x Depth x Width (mm)	44 × 410 × 440	44 × 410 × 440	44 × 410 × 440
Weight	14.5 lbs (6.58 kg)	14.4 lbs (6.54 kg)	16.53 lbs (7.5 kg)
Environment			
Power Required	100–240V AC, 50–60 Hz	100–240V AC, 50–60 Hz	100–240V AC, 50–60 Hz
Power Consumption (Maximum)	176 W	128 W	1660W
Power Supply	Dual hot swappable AC	Dual hot swappable AC	Dual hot swappable AC
Heat Dissipation	599.13 BTU/h	436.48 BTU/h	5664 BTU/h
Operating Temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Storage Temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Humidity	10% to 90% RH non-condensing	10% to 90% RH non-condensing	10% to 95% RH non-condensing
Air Flow	Front to back	Front to back	Front to back
Noise Level	56 dBA	57.3 dBA	64.5 dBA
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
Certification and Compliance			
FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2			
Warranty			
Fortinet Warranty	Limited lifetime* warranty on all models		

* Fortinet Warranty Policy: <http://www.fortinet.com/doc/legal/EULA.pdf>



Specifications

	FORTISWITCH 1048E	FORTISWITCH 1048G
Hardware Specifications		
Total Network Interfaces	48× 10G/1G SFP+/SFP ports and 6× 40G QSFP+ ports or 4× 100G/40G QSFP28/QSFP+ ports	48× 10G/1G SFP+/SFP ports and 6× 100G/40G QSFP28/QSFP+ ports
10/100/1000 Service Ports	1	1
RJ-45 Serial Console Port	1	1
Form Factor	1 RU Rack Mount	1 RU Rack Mount
System Specifications		
Switching Capacity (Duplex) *	1760 Gbps	2160 Gbps
Packets Per Second (Duplex) 64 bytes	1518 Mpps	2000 Mpps
Mac Address Storage	144 K	32 K
Network Latency	< 800 ns	< 1µs
VLANs Supported	4 K	4 K
IPv4/IPv6 Routing	✓	✓
Link Aggregation Group Size	Up to 48	Up to 48
Total Link Aggregation Groups	Up to number of ports	Up to number of ports
Queues/Port	8	8
Packet Buffers	12 MB	32 MB
Memory	8GB DDR3	8GB DDR4
Flash	128MB NOR	32MB NOR
Drive	128GB SSD	128GB SSD
Dimensions		
Height x Depth x Width (inches)	1.69 × 18.11 × 17.26	1.69 × 18.11 × 17.27
Height x Depth x Width (mm)	43 × 460 × 438.5	43 × 460 × 438.5
Weight	18.96 lbs (8.6 kg)	20.06 lbs (9.1 kg)
Environment		
Power Required	100–240V AC, 50–60 Hz	100–240V AC, 50–60 Hz
Power Consumption (Maximum)	up to 181.7 W	585.78 W
Power Supply	Dual hot swappable AC	Dual hot swappable AC
Heat Dissipation	620.4 BTU/h	2004.3 BTU/h
Operating Temperature	32°F to 113°F (0°C to 45°C)	32°F to 104°F (0°C to 40°C)
Storage Temperature	-4°F to 158°F (-20°C to 70°C)	-13°F to 158°F (-25°C to 70°C)
Humidity	10% to 90% RH non-condensing	10% to 90% RH non-condensing
Air Flow	Front to back	Front to back
Noise Level	59 dBA	71 dBA
Mean Time Between Failures	> 10 years	> 10 years
Certification and Compliance		
FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2		
Warranty		
Fortinet Warranty	Limited lifetime** warranty on all models	

* Full line rate with minimum packet size of 427 bytes on FS-1048E and 128 bytes on FS-1048G.

** Fortinet Warranty Policy: <http://www.fortinet.com/doc/legal/EULA.pdf>

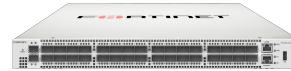


Specifications

	FORTISWITCH 2048F / 2048F-B2F	FORTISWITCH 3032G
Hardware Specifications		
Total Network Interfaces	48x 25G/10G SFP28/SFP+/SFP ports and 2x 10G/1G SFP+/SFP ports and 8x 100G/40G QSFP28/QSFP+ ports	32x 100GE / 40GE QSFP28 / QSFP+ ports 2x 10GE / 1GE SFP+ / SFP
10/100/1000 Service Ports	1	1
RJ-45 Serial Console Port	1	1
Form Factor	1 RU Rack Mount	1 RU Rack Mount
System Specifications		
Switching Capacity (Duplex) *	4000 Gbps	6440 Gbps
Packets Per Second (Duplex) 64 bytes	4000 Mpps	4000 Mpps
Mac Address Storage	96 K	65 K
Network Latency	< 1 µs	< 1µs
VLANs Supported	4 K	4 K
IPv4/IPv6 Routing	✓	✓
Link Aggregation Group Size	Up to 48	Up to number of ports
Total Link Aggregation Groups	Up to number of ports	Up to number of ports
Queues/Port	8	8
Packet Buffers	32 MB	32 MB
Memory	8GB DDR4	8GB DDR4
Flash	8GB NAND	32MB NOR
Drive	32GB SSD	128GB SSD
Dimensions		
Height x Depth x Width (inches)	1.71 x 18.11 x 17.26	1.69 x 18.11 x 17.26
Height x Depth x Width (mm)	43.5 x 460 x 438.5	43 x 460 x 438.5
Weight	21.78 lbs (9.88 kg)	18.45 lbs (8.37 kg)
Environment		
Power Required	100–240V AC, 50–60 Hz	100–240V AC, 50–60 Hz
Power Consumption (Maximum)	175.7 W	548.94W
Power Supply	Dual hot swappable AC	Dual hot swappable AC
Heat Dissipation	406 BTU/h	1871.88
Operating Temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Storage Temperature	-13°F to 158°F (-25°C to 70°C)	-13°F to 158°F (-25°C to 70°C)
Humidity	10% to 90% RH non-condensing	10% to 90% RH non-condensing
Air Flow	Front to back / back to front	Front to back
Noise Level	69.36 dBA	73.13 dBA
Mean Time Between Failures	> 10 years	> 10 years
Certification and Compliance		
FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2		
Warranty		
Fortinet Warranty	Limited lifetime** warranty on all models	

* Full line rate with minimum packet size of 110 bytes on FS-2048F when 2x10G ports are not in use, and 251 bytes on FS-3032G.

** Fortinet Warranty Policy: <http://www.fortinet.com/doc/legal/EULA.pdf>



Ordering Information

Product	SKU	Description
FortiSwitch-1024E	FS-1024E	Layer 2/3 FortiGate switch controller compatible switch with 24x GE/10GE SFP/SFP+ slots and 2x 100GE QSFP28. Dual AC power supplies.
FortiSwitch-T1024E	FS-T1024E	Layer 2/3 FortiGate switch controller compatible switch with 24x 1G/2.5G/5G/10GBase-T slots and 2x 100GE QSFP28. Dual AC power supplies.
FortiSwitch-T1024F-FPOE	FS-T1024F-FPOE	Layer 2/3 FortiGate switch controller compatible PoE 802.3bt switch with 24x 10G/5G/2.5G/1G RJ45 and 2x 100GE QSFP28 ports. Max 1440W PoE output limit. Dual AC power supplies.
FortiSwitch-1048E	FS-1048E	Layer 2/3 FortiGate switch controller compatible switch with 48x GE/10 GE SFP/SFP+ slots and 6x 40 GE QSFP+ or 4x 100 GE QSFP28. Dual AC power supplies.
FortiSwitch-1048G	FS-1048G	Layer 2/3 FortiGate switch controller compatible switch with 48x GE/10GE SFP/SFP+ ports and 6x 100GE QSFP28 ports. MACSec. Dual AC power supplies.
FortiSwitch-3032G	FS-3032G	Layer 2/3 FortiGate switch controller compatible switch with 32x 100 GE/40 GE QSFP28/QSFP+ and 2x 10GE SFP+ ports. Dual AC power supplies.
FortiSwitch-2048F	FS-2048F	Layer 2/3 FortiGate switch controller compatible switch with 48x 25G SFP28 + 8x 100G QSFP28 + 2x 10G SFP+. Dual AC power supplies.
FortiSwitch-2048F-B2F	FS-2048F-B2F	Layer 2/3 FortiGate switch controller compatible switch with 48x 25G SFP28 + 8x 100G QSFP28 + 2x 10G SFP+. Dual AC power supplies. Back to front air flow.
FortiEdge Cloud Management License	FC-10-FSW30-628-02-DD	FortiSwitch 1000 Series and above FortiEdge Cloud Management SKU Including FortiCare Premium. (Note, FortiCare only applicable when used with FortiEdge Cloud.)
FortiGate Cloud Management*	FC-10-0030E-131-02-DD	FortiGate Cloud Management, Analysis and 1 Year Log Retention.
FortiSwitchManager Subscription License	FC1-10-SWMVM-258-01-DD	Subscription license for 10 FortiSwitch Units managed by FortiSwitchManager VM. 24x7 FortiCare support (for FSWM VM) included.
	FC2-10-SWMVM-258-01-DD	Subscription license for 100 FortiSwitch Units managed by FortiSwitchManager VM. 24x7 FortiCare support (for FSWM VM) included.
	FC3-10-SWMVM-258-01-DD	Subscription license for 1000 FortiSwitch Units managed by FortiSwitchManager VM. 24x7 FortiCare support (for FSWM VM) included.
Accessories		
FortiSwitch Advanced Features License	FS-SW-LIC-1000	SW License for FS-1000 Series Switches to activate Advanced Features.
	FS-SW-LIC-2000	SW License for FS-2000 Series Switches to activate Advanced Features.
	FS-SW-LIC-3000	SW License for FS-3000 Series Switches to activate Advanced Features.
AC Power Supply	FS-PSU-460	Spare AC power supply for FS-1048E/1024D (power cord not included).
	FS-PSU-300	Spare AC power supply for FS-1024E and FS-T1024E (power cord not included).
	FS-2048-PSU-650	Spare AC power supply for FS-2048F (power cord not included).

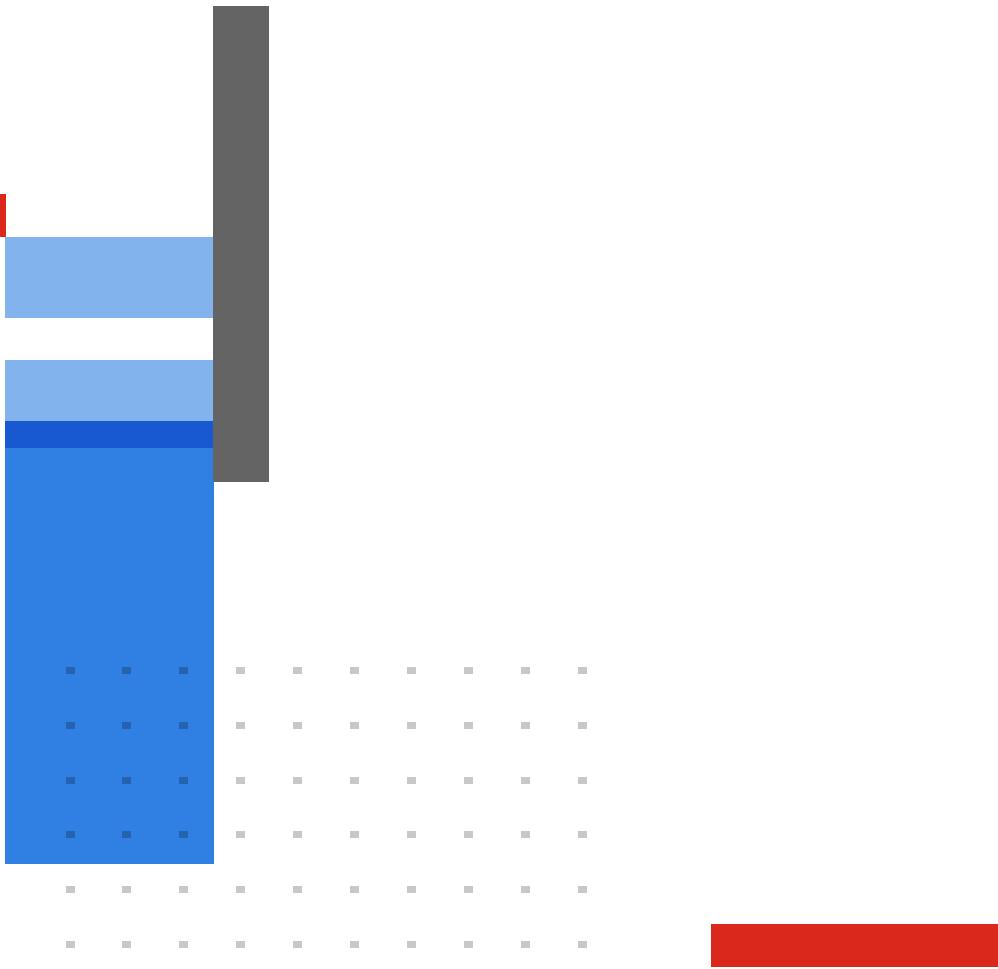
* When managing a FortiSwitch with a FortiGate via FortiGate Cloud, no additional license is necessary.

For details of Transceiver modules, see the [Fortinet Transceivers datasheet](#).

Visit <https://www.fortinet.com/resources/ordering-guides> for related ordering guides.

Fortinet Corporate Social Responsibility Policy

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