

DATA SHEET

FortiSwitch™ Secure Access Family

The FortiSwitch™ Secure Access Family delivers outstanding security, performance, and manageability. Secure, simple, and scalable, FortiSwitch is the right choice for threat-conscious businesses of all sizes.

Tightly integrated into the Fortinet Security Fabric via FortiLink, FortiSwitch can be managed directly from the familiar FortiGate interface. This single pane of glass management provides complete visibility and control of users and devices on the network regardless of how they connect. This makes the FortiSwitch ideal for SD-Branch deployments with applications that range from desktop to data center aggregation, enabling businesses to converge their security and network access.



Security Fabric Integration through FortiLink

FortiLink is an innovative proprietary management protocol that allows our FortiGate Next Generation Firewall to seamlessly manage any FortiSwitch. FortiLink enables the FortiSwitch to become a logical extension of the FortiGate, integrating it directly into the Fortinet Security Fabric. This management option reduces complexity and decreases management costs as network security and access layer functions are enabled and managed through a single console. FortiLink integration enables centralized policy management, including role-based access and control, making it easy to implement and manage. This control and manageability make FortiSwitch ideal for SD-Branch deployments.



Product Offerings

FS-108E, 108E-POE, 108E-FPOE, 124E, 124E-POE, 124E-FPOE, 148E, 148E-POE, 124F, 124F-POE, 124F-FPOE, 148F, 148F-POE, 148F-POE, 224D-FPOE, 224E, 224E-POE, 248D, 248E-POE, 248E-FPOE, 424D, 424D-POE, 424D-FPOE, 448D, 448D-POE, 448D-FPOE, 424E-FIBER, M426E-FPOE, 424E, 424E-POE, 424E-FPOE, 448E, 448E-POE, 448E-FPOE, 524-D, 524D-FPOE, 548D, 548D-FPOE

Highlights

- Designed for installations from desktops to wiring closets
- Ideal for SD-Branch deployments
- Centralized security and access management from FortiGate interfaces with FortiLink
- Optimal for converged network environments; enabling voice, data, and wireless traffic to be delivered across a single network
- Supports non-FortiLink deployments through onboard GUI, API, or command line configuration
- Up to 48 ports in a compact 1 RU form factor
- Stackable up to 300 switches per FortiGate, depending on model
- Supports Wire-speed switching and Store and Forward forwarding mode

Highlights

Entry

100 Series

- Entry level switch
- 8-48 GE ports, PoE+ capable
- Desktop to wiring closet
- 2-4 GE SFP uplink ports
- 4x 10GE SFP+ uplink ports

Mid-Range

200 Series

- Mid-level switch
- 24-48 GE ports, PoE+ capable
- Typical wiring closet switch
- 4 GE SFP uplink ports

Premium

400 Series

- Enterprise switch
- 24-48 GE ports, PoE+ capable
- Larger wiring closet or high throughput requirements
- 4x 10 GE SFP+ uplink ports

Aggregation

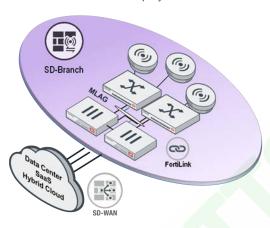
500 Series

- Aggregation switch
- 24-48 GE ports, PoE+ capable
- Larger wiring closet or high throughput requirements
- 4x 10 GE SFP+ and
 2x 40 GE QSFP uplink ports

Deployment

FortiLink

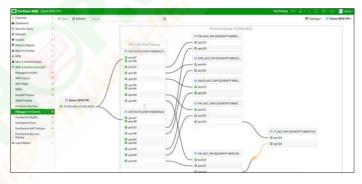
FortiGate Managed. Security Fabric Enabled. Most common deployment model.



Cloud Management Option



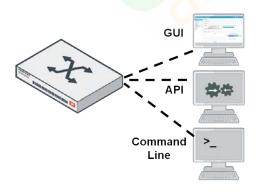
FortiGate Cloud



Standalone

Industry Standard Deployment Model.

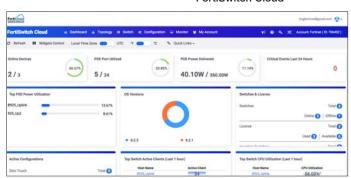
Common in non-FortiGate environments.



Cloud Management Option



FortiSwitch Cloud



Features

	FORTISWITCH FORTILINK N	MODE (WITH FORTIGATE)	
Management and Configuration			
Auto Discovery of Multiple Switches	Yes		
Number of Managed Switches per FortiGate		ate Model (Please refer to admin q	uide\
FortiLink Stacking (Auto Inter-Switch Links)	Yes	ato Wodor (Floado Folor to darriir g	
Software Upgrade of Switches	Yes		
Centralized VLAN Configuration	Yes		
Switch POE Control	Yes		
Link Aggregation Configuration	Yes		
Spanning Tree	Yes		
LLDP/MED	Yes		
IGMP Snooping	Yes		
L3 Routing and Services	Yes (FortiGate)		
Policy-Based Routing	Yes (FortiGate)		
Virtual Domain	Yes (FortiGate)		
Security and Visibility			
802.1x Authentication (Port-based, MAC-based, MAB)	Yes		
Syslog Collection	Yes		
DHCP Snooping	Yes		
Device Detection	Yes		
MAC Black/While Listing	Yes (FortiGate)		
Policy Control of Users and Devices	Yes (FortiGate)		
Block Intra-VLAN Traffic	Yes		
UTM Features			
Firewall	Yes (FortiGate)		
IPC, AV, Application Control, Botnet	Yes (FortiGate)		
High Availability			
Support FortiLink FortiGate in HA Cluster	Yes		
LAG support for FortiLink Connection	Yes		
Active-Active Split LAG from FortiGate to FortiSwitches for Advanced Redundancy	Yes (with FS-2xx, 4xx, 5xx)		
FORTISWITCH MODEL SERIES	2XXD, 4XXD, 5XXD	1XXE / 1XXF	2XXE, 4XXE
Layer 2	2770, 4770, 5770	TAKE / TAKE	ZAAL, HALL
Jumbo Frames	V	Yes	Voc
	Yes		Yes Ves
Auto-negotiation for Port Speed and Duplex	Yes	Yes	Yes
Auto-negotiation for Port Speed and Duplex MDI/MDIX Auto-crossover	Yes Yes	Yes Yes	Yes Yes
Auto-negotiation for Port Speed and Duplex MDI/MDIX Auto-crossover IEEE 802.1D MAC Bridging/STP	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes
Auto-negotiation for Port Speed and Duplex MDI/MDIX Auto-crossover IEEE 802.1D MAC Bridging/STP IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)	Yes Yes Yes Yes	Yes Yes Yes Yes	Yes Yes Yes Yes
Auto-negotiation for Port Speed and Duplex MDI/MDIX Auto-crossover IEEE 802.1D MAC Bridging/STP IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)	Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes
Auto-negotiation for Port Speed and Duplex MDI/MDIX Auto-crossover IEEE 802.1D MAC Bridging/STP IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) STP Root Guard	Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes
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Auto-negotiation for Port Speed and Duplex MDI/MDIX Auto-crossover IEEE 802.1D MAC Bridging/STP IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) STP Root Guard STP BPDU Guard Edge Port / Port Fast	Yes	Yes	Yes
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Auto-negotiation for Port Speed and Duplex MDI/MDIX Auto-crossover IEEE 802.1D MAC Bridging/STP IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) STP Root Guard STP BPDU Guard Edge Port / Port Fast IEEE 802.10 VLAN Tagging Private VLAN	Yes	Yes	Yes
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Auto-negotiation for Port Speed and Duplex MDI/MDIX Auto-crossover IEEE 802.1D MAC Bridging/STP IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) STP Root Guard STP BPDU Guard Edge Port / Port Fast IEEE 802.10 VLAN Tagging Private VLAN	Yes	Yes	Yes
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Auto-negotiation for Port Speed and Duplex MDI/MDIX Auto-crossover IEEE 802.1D MAC Bridging/STP IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) STP Root Guard STP BPDU Guard STP BPDU Guard Edge Port / Port Fast IEEE 802.10 VLAN Tagging Private VLAN IEEE 802.3ad Link Aggregation with LACP Unicast/Multicast traffic balance over trunking port (dst-ip, dst-mac, src-dst-ip, src-dst-mac, src-ip, src-mac) IEEE 802.1AX Link Aggregation Spanning Tree Instances (MSTP/CST) IEEE 802.3x Flow Control and Back-pressure IEEE 802.3u 100Base-TX IEEE 802.3z 1000Base-SX/LX	Yes	Yes	Yes
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Auto-negotiation for Port Speed and Duplex MDI/MDIX Auto-crossover IEEE 802.1D MAC Bridging/STP IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) STP Root Guard STP BPDU Guard STP BPDU Guard Edge Port / Port Fast IEEE 802.10 VLAN Tagging Private VLAN IEEE 802.3ad Link Aggregation with LACP Unicast/Multicast traffic balance over trunking port (dst-ip, dst-mac, src-dst-ip, src-dst-mac, src-ip, src-mac) IEEE 802.1AX Link Aggregation Spanning Tree Instances (MSTP/CST) IEEE 802.3x Flow Control and Back-pressure IEEE 802.31 10Base-T IEEE 802.32 1000Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3ab 1000Base-T	Yes	Yes	Yes
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Auto-negotiation for Port Speed and Duplex MDI/MDIX Auto-crossover IEEE 802.1D MAC Bridging/STP IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) STP Root Guard STP BPDU Guard Edge Port / Port Fast IEEE 802.10 VLAN Tagging Private VLAN IEEE 802.3ad Link Aggregation with LACP Unicast/Multicast traffic balance over trunking port (dst-ip, dst-mac, src-dst-ip, src-dst-mac, src-ip, src-mac) IEEE 802.1AX Link Aggregation Spanning Tree Instances (MSTP/CST) IEEE 802.3x Flow Control and Back-pressure IEEE 802.3 10Base-TX IEEE 802.3z 1000Base-TX IEEE 802.3ab 1000Base-TX IEEE 802.3ac In Gigabit Ethernet IEEE 802.3z Energy Efficient Ethernet IEEE 802.3z Energy Efficient Ethernet IEEE 802.3z Multi Gigabit Ethernet	Yes	Yes	Yes
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Features

Yes 64 on 2xxE 1K on 424E, 424E-POE, 424E-FPOE, M426E-FPOE 16K on 448E, 448E-POE, 448E-FPOE, 424E-Fiber 1K on 2xxE 2K on 424E, 424E-POE, 424E-FPOE, M426E-FPOE 16K on 448E, 448E-POE, 448E-FPOE, M426E-FPOE 16K on 448E, 448E-POE, 448E-FPOE, 424E-Fiber OSPFv2, RIPv2, VRRP N/A No NVA Yes Yes Yes Yes Yes Yes Yes Ye
64 on 2xxE 1K on 424E, 424E-POE, 424E-FPOE, M426E-FPOE 16K on 448E, 448E-POE, 448E-FPOE, 424E-Fiber 1K on 2xxE 2K on 424E, 424E-POE, 424E-FPOE, M426E-FPOE 16K on 448E, 448E-POE, 424E-FPOE, M426E-FPOE 16K on 448E, 448E-POE, 448E-FPOE, 424E-Fiber OSPFv2, RIPv2, VRRP N/A No N/A Yes
1K on 424E, 424E-POE, 424E-FPOE, M426E-FPOE 16K on 448E, 448E-POE, 448E-FPOE, 424E-Fiber 1K on 2xx 2K on 424E, 424E-POE, 424E-FPOE, M426E-FPOE 16K on 448E, 448E-POE, 424E-FPOE, M426E-FPOE 16K on 448E, 448E-POE, 448E-FPOE, 424E-Fiber OSPFv2, RIPv2, VRRP N/A No No N/A Yes
1K on 2xxE 2K on 424E, 424E-POE, 424E-FPOE, M426E-FPOE 16K on 448E, 448E-POE, 448E-FPOE, 424E-Fiber OSPFv2, RIPv2, VRRP N/A No NVA Yes
N/A No N/A No N/A Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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512 entries on 2xxE 1K on 424E, 424E-POE, 424E-FPOE, M426E-FPOE 1.5K on 448E, 448E-POE, 448E-FPOE, 424E-Fiber
Yes
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Yes

 $^{^{\}star} \, \text{Supported on 2xx, 4xx and 5xx.} \,\, ^{\star\star} \text{Supported in software only.} \,\, ^{\star\star\star} \text{Requires 'Advanced Features' License.}$



Features

RFC and MIB Support*	
BFD	MIB
RFC 5880: Bidirectional Forwarding Detection (BFD)	RFC 1724: RIPv2-MIB
RFC 5881: Bidirectional Forwarding Detection (BFD) for IPv4 and IPv6 (Single Hop)	RFC 1850: OSPF Version 2 Management Information Base
RFC 5882: Generic Application of Bidirectional Forwarding Detection (BFD)	RFC 2233: The Interfaces Group MIB using SMIv2
GGP	RFC 2618: Radius-Auth-Client-MIB
RFC 1771: A Border Gateway Protocol 4 (BGP-4)	RFC 2620: Radius-Acc-Client-MIB
RFC 1965: Autonomous System Confederations for BGP	RFC 2674: Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering
RFC 1997: BGP Communities Attribute	and Virtual LAN extensions
RFC 2545: Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing	RFC 2787: Definitions of Managed Objects for the Virtual Router Redundancy Protocol
RFC 2796: BGP Route Reflection - An Alternative to Full Mesh IBGP	RFC 2819: Remote Network Monitoring Management Information Base
RFC 2842: Capabilities Advertisement with BGP-4	RFC 2932: IPv4 Multicast Routing MIB
RFC 2858: Multiprotocol Extensions for BGP-4	RFC 2934: Protocol Independent Multicast MIB for IPv4
RFC 4271: BGP-4	RFC 3289: Management Information Base for the Differentiated Services Architecture
RFC 6286: Autonomous-System-Wide Unique BGP Identifier for BGP-4	RFC 3433: Entity Sensor Management Information Base
RFC 6608: Subcodes for BGP Finite State Machine Error	RFC 3621: Power Ethernet MIB
RFC 6793: BGP Support for Four-Octet Autonomous System (AS) Number Space	RFC 6933: Entity MIB (Version 4)
RFC 7606: Revised Error Handling for BGP UPDATE Messages	OSPF
RFC 7607: Codification of AS 0 Processing	RFC 1583: OSPF version 2
RFC 7705: Autonomous System Migration Mechanisms and Their Effects on the BGP AS_PATH Attribute	RFC 1765: OSPF Database Overflow
RFC 8212: Default External BGP (EBGP) Route Propagation Behavior without Policies	RFC 2328: OSPF version 2
RFC 8654: Extended Message Support for BGP	RFC 2370: The OSPF Opaque LSA Option
OHCP	RFC 2740: OSPF for IPv6
RFC 2131: Dynamic Host Configuration Protocol	RFC 3101: The OSPF Not-So-Stubby Area (NSSA) Option
RFC 3046: DHCP Relay Agent Information Option	RFC 3137: OSPF Stub Router Advertisement
RFC 7513: Source Address Validation Improvement (SAVI) Solution for DHCP	RFC 3623: OSPF Graceful Restart
P/IPv4	RFC 5340: OSPF for IPv6 (OSPFv3)
RFC 3168: The Addition of Explicit Congestion Notification (ECN) to IP	RFC 5709: OSPFv2 HMAC-SHA Cryptographic Authentication
RFC 5227: IPv4 Address Conflict Detection	RFC 6549: OSPFv2 Multi-Instance Extensions
RFC 5517: Cisco Systems' Private VLANs: Scalable Security in a Multi-Client Environment	RFC 6845: OSPF Hybrid Broadcast and Point-to-Multipoint Interface Type
RFC 7039: Source Address Validation Improvement (SAVI) Framework	RFC 6860: Hiding Transit-Only Networks in OSPF
P Multicast	RFC 7474: Security Extension for OSPFv2 When Using Manual Key Management
RFC 2362: Protocol Independent Multicast-Sparse Mode (PIM-SM): Protocol Specification	RFC 7503: OSPF for IPv6
RFC 2710: Multicast Listener Discovery (MLD) for IPv6 (MLDv1)	RFC 8042: CCITT Draft Recommendation T.4
RFC 4541: Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener	RFC 8362: OSPFv3 Link State Advertisement (LSA) Extensibility
Discovery (MLD) Snooping Switches	OTHER
RFC 4605: Internet Group Management Protocol (IGMP)/Multicast Listener Discovery (MLD)-Based	RFC 2030: SNTP
Multicast Forwarding ("IGMP/MLD Proxying")	RFC 3176: InMon Corporation's sFlow: A Method for Monitoring Traffic in Switched and Route
RFC 4607: Source-Specific Multicast for IP	Networks
Pv6	RFC 3768: VRRP
RFC 2464: Transmission of IPv6 Packets over Ethernet Networks: Transmission of IPv6 Packets over	RFC 3954: Cisco Systems NetFlow Services Export Version 9
Ethernet Networks	RFC 5101: Specification of the IP Flow Information Export (IPFIX) Protocol for the Exchange o
RFC 2474: Definition of the Differentiated Services Field (DS Field) in the and IPv6 Headers (DSCP)	Flow Information
RFC 2893: Transition Mechanisms for IPv6 Hosts and Routers	RFC 5798: VRRPv3 (IPv4 and IPv6)
RFC 4213: Basic Transition Mechanisms for IPv6 Hosts and Router	RADIUS
RFC 4291: IP Version 6 Addressing Architecture	RFC 2865: Admin Authentication Using RADIUS
RFC 4443: Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification	RFC 2866: RADIUS Accounting
RFC 4861: Neighbor Discovery for IP version 6 (IPv6)	RFC 5176: Dynamic Authorization Extensions to Remote Authentication Dial In User Service
RFC 4862: IPv6 Stateless Address Auto configuration	(RADIUS)
RFC 5095: Deprecation of Type 0 Routing Headers in IPv6	RIP
RFC 6724: Default Address Selection for Internet Protocol version 6 (IPv6)	RFC 1058: Routing Information Protocol
RFC 7113: IPv6 RA Guard	RFC 2080: RIPng for IPv6
RFC 8200: Internet Protocol, Version 6 (IPv6) Specification	RFC 2082: RIP-2 MD5 Authentication
RFC 8201: Path MTU Discovery for IP version 6	RFC 2453: RIPv2
S-IS	RFC 4822: RIPv2 Cryptographic Authentication
RFC 1195: Use of OSI IS-IS for Routing in TCP/IP and Dual Environments	SNMP
RFC 5308: Routing IPv6 with IS-IS	RFC 1157: SNMPv1/v2c
ИВ	RFC 2571: Architecture for Describing SNMP
RFC 1213: MIB II parts that apply to FortiSwitch 100 units	RFC 2572: SNMP Message Processing and Dispatching
RFC 1354: IP Forwarding Table MIB	RFC 2573: SNMP Applications
RFC 1493: Bridge MIB	RFC 2576: Coexistence between SNMP versions
RFC 1573: SNMP MIB II	

 $^{{}^{\}star}\text{ RFC and MIB supported by FortiSwitch Operating System. Check feature matrix in administration guide for model specific support.}\\$



Specifications			
	FUNDINGS. **** Market Marke	5 A HARA HARA	E
	FORTISWITCH 108E	FORTISWITCH 108E-POE	FORTISWITCH 108E-FP0E
Hardware Specifications			
Total Network Interfaces	7x GE RJ45, 1x GE/POE-PD RJ45, and 2x GE SFP	8x GE RJ45 and 2x GE SFP	8x GE RJ45 and 2x GE SFP
Dedicated Management 10/100 Port	0	0	0
RJ-45 Serial Console Port	1	1	1
Form Factor	Desktop	1 RU Rack Mount	1 RU Rack Mount
Power over Ethernet (PoE) Ports	0	4 (802.3af/at)	8 (802.3af/at)
PoE Power Budget	0	65 W	130 W
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
System Specifications			
Switching Capacity (Duplex)	20 Gbps	20 Gbps	20 Gbps
Packets Per Second (Duplex)	30 Mpps	30 Mpps	30 Mpps
MAC Address Storage	8 K	8 K	8 K
Network Latency	4µs	4μs	4µs
/LANs Supported	4 K	4 K	4 K
ink Aggregation Group Size	8	8	8
Total Link Aggregation Groups	8	8	8
Packet Buffers	512 KB	512 KB	512 KB
DRAM	256 MB DDR3	256 MB DDR3	256 MB DDR3
FLASH	32 MB	32 MB	32 MB
Dimensions			
Height x Depth x Width (inches)	1.5 x 6.3 x 8.7	1.7 x 8.2 x 13	1.7 x 8.2 x 13
Height x Depth x Width (mm)	38 x 160 x 220	44 x 209 x 33 <mark>0</mark>	44 x 209 x 330
Weight	2.2 lbs (1 kg)	4.3 lbs (1. <mark>95 kg</mark>)	4.5 lbs (2.04 kg)
Environment			
Power Required	100-240V AC, 50/60 Hz / PoE-PSE(af)	100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz
Power Supply	AC & PoE-PD Built in	AC Built in	AC Built in
Redundant Power	-/	<u> </u>	_
Power Consumption* (Average / Maximum)	5.54 W / 6.26 W	70.19 W / 71.10 W	135.19 W / 136.10 W
Heat Dissipation	18.9 BTU/h	17.7 BTU/h	17.7 BTU/h
Operating Temperature	32-113°F (0-45°C)	32-113°F (0-45°C)	32-113°F (0-45°C)
Storage Temperature	-40–158°F (-40–7 <mark>0°C)</mark>	-40–158°F (-40–70°C)	-40–158°F (-40–70°C)
Humidity	10-90% non-condensing	10-90% non-condensing	10–90% non-condensing
Air-Flow Direction	side-to-back	side-to-back	side-to-back
Certification and Compliance			
	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2		
Warranty			
Fortinet Warranty	Limited lifetime** warranty on all models		

^{*} POE models power consumption is similar to non-POE model if POE is not in use







FortiSwitch 108E-FPOE



 $^{^{\}star\star} \ \mathsf{Fortinet} \ \mathsf{Warranty} \ \mathsf{Policy:} \ \mathbf{http://www.fortinet.com/doc/legal/EULA.pdf}$

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			Ta . tour mount II
	FORTISWITCH 124E	FORTISWITCH 124E-P0E	FORTISWITCH 124E-FP0E
Hardware Specifications			
Total Network Interfaces	24x GE RJ45 and 4x GE SFP	24x GE RJ45 and 4x GE SFP	24x GE RJ45 and 4x GE SFP
Dedicated Management 10/100 Port	0	0	0
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	0	12 (802.3af/at)	24 (802.3af/at)
PoE Power Budget	0	185 W	370 W
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
System Specifications			
Switching Capacity (Duplex)	56 Gbps	56 Gbps	56 Gbps
Packets Per Second (Duplex)	83 Mpps	83 Mpps	83 Mpps
AC Address Storage	8 K	8 K	8 K
Network Latency	4µs	4µs	4µs
/LANs Supported	4 K	4 K	4 K
ink Aggregation Group Size	8	8	8
otal Link Aggregation Groups	8	8	8
Packet Buffers	512 KB	512 KB	512 KB
)RAM	256 MB DDR3	256 MB DDR3	256 MB DDR3
LASH	32 MB	32 MB	32 MB
Dimensions			
leight x Depth x Width (inches)	1.7 x 8.2 x 13	1.7 x 12.2 x 17.3	1.7 x 12.2 x 17.3
leight x Depth x Width (mm)	44 x 209 x 330	44 x 309 x 440	44 x 309 x 440
Veight	4.7 lbs (2.13 kg)	11.1 lbs (5.03 kg)	11.2 lbs (5.03 kg)
nvironment			
Power Required	100-240V AC, 50/60 Hz	100– <mark>240V</mark> AC, 50/60 Hz	100-240V AC, 50/60 Hz
Power Supply	AC Built in	AC Built in	AC Built in
Redundant Power	_	<u> </u>	_
Power Consumption* (Average / Maximum)	15.83 W /17.79 W	202.78 W / 205.45 W	387.78 W / 390.45 W
leat Dissipation	54 BTU/h	60.67 BTU/h	60.67 BTU/h
Operating Temperature	32-113°F (0–45°C)	32-113°F (0-45°C)	32-113°F (0-45°C)
Storage Temperature	-40-158°F (-40-70°C)	-40–158°F (-40–70°C)	-40–158°F (-40–70°C)
lumidity	10–90% non-condensing	10–90% non-condensing	10–90% non-condensing
ir-Flow Direction	side-to-back	side-to-back	side-to-back
Pertification and Compliance			
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS	S2
<i>N</i> arranty			
Fortinet Warranty		Limited lifetime** warranty on all models	3

^{*} POE models power consumption is similar to non-POE model if POE is not in use



FortiSwitch 124E



FortiSwitch 124E-POE



FortiSwitch 124E-FPOE



^{**} Fortinet Warranty Policy: http://www.fortinet.com/doc/legal/EULA.pdf

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leaders One "Carling	FORTISWITCH 148E	FORTISWITCH 148E-POE
Hardware Specifications	40.05.045	40. 05.04514.05.050
Total Network Interfaces	48x GE RJ45 and 4x GE SFP	48x GE RJ45 and 4x GE SFP
Dedicated Management 10/100 Port	0	0
RJ-45 Serial Console Port	1	1
Form Factor	1 RU Rack Mount	1 RU Rack Mount
Power over Ethernet (PoE) Ports	0	24 (802.3af/at)
PoE Power Budget	0	370 W
Mean Time Between Failures	> 10 years	> 10 years
System Specifications		
Switching Capacity (Duplex)	104 Gbps	104 Gbps
Packets Per Second (Duplex)	155 Mpps	155 Mpps
NAC Address Storage	16 K	16 K
letwork Latency	3860 ns	3860 ns
/LANs Supported	4 K	4 K
ink Aggregation Group Size	8	8
otal Link Aggregation Groups	16	16
Packet Buffers	1.5 MB	1.5 MB
DRAM	256 MB DDR3	256 MB DDR3
FLASH	64 MB	64 MB
Dimensions		
Height x Depth x Width (inches)	1.73 x 12.2 x 17.3	1.73 x 13.7 x 17.3
leight x Depth x Width (mm)	44 x 309 x 440	44 x 348 x 440
Veight	8.6 lbs (3.9 kg)	11.5 lbs (5.2 kg)
Environment		
Power Required	100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz
Power Supply	AC Built in	AC Built in
Redundant Power	No	No
ower Consumption* (Average / Maximum)	19.804 W / <mark>22.137 W</mark>	389.742 W /393.109 W
leat Dissipation	67.574 B <mark>TU/h</mark>	78.82 BTU/h
Operating Temperature	32-11 <mark>3°F (0-</mark> 45°C)	32-113°F (0-45°C)
Storage Temperature	-4-158°F (-20-70°C)	-4–158°F (-20–70°C)
lumidity	10–90% non-condensing	10–90% non-condensing
Air-Flow Direction	side-to-back	side-to-back
Certification and Compliance		
	FCC, CE	E, RCM, VCCI, BSMI, UL, CB, RoHS2
Warranty		
Fortinet Warranty	Limite	ed lifetime** warranty on all models

^{*} POE models power consumption is similar to non-POE model if POE is not in use



FortiSwitch 148E



FortiSwitch 148E-POE



^{**} Fortinet Warranty Policy: http://www.fortinet.com/doc/legal/EULA.pdf

			F
	FORTISWITCH 124F	FORTISWITCH 124F-P0E	FORTISWITCH 124F-FP0E
Hardware Specifications			
Total Network Interfaces	24x GE RJ45 and	24x GE RJ45 and	24x GE RJ45 and
	4x 10GE SFP+	4x 10GE SFP+	4x 10GE SFP+
Dedicated Management 10/100 Port	0	0	0
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	0	12 (802.3af/at)	24 (802.3af/at)
PoE Power Budget	0	185 W	370 W
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
System Specifications			
Switching Capacity (Duplex)	128 Gbps	128 Gbps	128 Gbps
Packets Per Second (Duplex)	190 Mpps	190 Mpps	190 Mpps
MAC Address Storage	32 K	32 K	32 K
Network Latency	< 1µs	< 1µs	< 1µs
VLANs Supported	4 K	4 K	4 K
Link Aggregation Group Size	8	8	8
Total Link Aggregation Groups	128	128	128
Packet Buffers	2 MB	2 MB	2 MB
DRAM	512 MB DDR3	512 MB DDR3	512 MB DDR3
FLASH	64 MB	64 MB	64 MB
Dimensions			
Height x Depth x Width (inches)	1.73 x 9.06 x 12.99	1.73 x 10.24 x 12.99	1.73 x 10.24 x 12.99
Height x Depth x Width (mm)	44 x 230 x 330	44 x 260 x 330	44 x 260 x 330
Weight	4.48 lbs (2.03 kg)	7.85 l <mark>bs (3.56 k</mark> g)	8.42 lbs (3.82 kg)
Environment			
Power Required	100-240V AC, 50-60 Hz	100-240V AC, 50-60 Hz	100-240V AC, 50-60 Hz
Power Supply	AC built in	AC built in	AC built in
Redundant Power	No	No	No
Power Consumption* (Average / Maximum)	24.8 W / 26.3 W	235.9 W / 237.4 W	449.8 W / 451.3 W
Heat Dissipation	89.683 BTU/h	809.534 BTU/h	1538.933 BTU/h
Operating Temperature	32-113°F (0-45°C)	32-113°F (0-45°C)	32-113°F (0-45°C)
Storage Temperature	-4–158°F (-20–70 <mark>°C)</mark>	-4–158°F (-20–70°C)	-4–158°F (-20–70°C)
Humidity	10-90% non-condensing	10-90% non-condensing	10-90% non-condensing
Air-Flow Direction	side-to-back	side-to-back	side-to-back
Certification and Compliance			
		FCC, CE, RCM, VCCI, BSMI, UL, CB, Rc	HS2
Warranty			
Fortinet Warranty		Limited lifetime** warranty on all mod	els

^{*} POE models power consumption is similar to non-POE model if POE is not in use

^{**} Fortinet Warranty Policy: http://www.fortinet.com/doc/legal/EULA.pdf



FortiSwitch 124F



FortiSwitch 124F-POE



FortiSwitch 124F-FPOE



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	FORTISWITCH 148F	FORTISWITCH 148F-P0E	FORTISWITCH 148F-FP0E
Hardware Specifications			
Total Network Interfaces	48x GE RJ45 and	48x GE RJ45 and	48x GE RJ45 and
	4x 10GE SFP+	4x 10GE SFP+	4x 10GE SFP+
Dedicated Management 10/100 Port	0	0	0
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	0	24 (802.3af/at)	48 (802.3af/at)
PoE Power Budget	0	370 W	740 W
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
System Specifications			
Switching Capacity (Duplex)	176 Gbps	176 Gbps	176 Gbps
Packets Per Second (Duplex)	260 Mpps	260 Mpps	260 Mpps
MAC Address Storage	32 K	32 K	32 K
Network Latency	< 1µs	< 1µs	< 1µs
VLANs Supported	4 K	4 K	4 K
Link Aggregation Group Size	8	8	8
Total Link Aggregation Groups	128	128	128
Packet Buffers	2 MB	2 MB	2 MB
DRAM	512 MB DDR3	512 MB DDR3	512 MB DDR3
FLASH	64 MB	64 MB	64 MB
Dimensions			
Height x Depth x Width (inches)	1.73 x 10.24 x 17.32	1.73 x 12.20 x 17.32	1.73 x 12.20 x 17.32
Height x Depth x Width (mm)	44 x 260 x 440	44 x 310 x 440	44 x 310 x 440
Weight	7.63 lbs (3.46 kg)	10.32 lbs (4.68 kg)	10.32 lbs (4.68 kg)
Environment			
Power Required	100-240V AC, 50-60 Hz	100-240V AC, 50-60 Hz	100-240V AC, 50-60 Hz
Power Supply	AC built in	AC built in	AC built in
Redundant Power	No	No	No
Power Consumption* (Average / Maximum)	55.8 W / 57 W	474.8 W / 476.3 W	893.5 W / 895.7 W
Heat Dissipation	194.37 BTU/h	195.73 BTU/h	198.46 BTU/h
Operating Temperature	32-113°F (0-45°C)	32-113°F (0-45°C)	32-113°F (0-45°C)
Storage Temperature	-4–158°F (-20–70°C)	-4–158°F (-20–70°C)	-4-158°F (-20-70°C)
Humidity	10-90% non-condensing	10–90% non-condensing	10-90% non-condensing
Air-Flow Direction	side-to-back	side-to-back	side-to-back
Certification and Compliance			
		FCC, CE, RCM, VCCI, BSMI, UL, CB, Ro	HS2
Warranty			
Fortinet Warranty		Limited lifetime** warranty on all mode	els

 $^{^{\}star}$ POE models power consumption is similar to non-POE model if POE is not in use

^{**} Fortinet Warranty Policy: http://www.fortinet.com/doc/legal/EULA.pdf



FortiSwitch 148F



FortiSwitch 148F-POE



FortiSwitch 148F-FPOE



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	FORTISWITCH 224D-FP0E	FORTISWITCH 224E	FORTISWITCH 224E-P0E
Hardware Specifications			
Total Network Interfaces	24x GE RJ45 ports and 4x GE SFP ports	24x GE RJ45 ports and 4x GE SFP ports	24x GE RJ45 ports and 4x GE SFP ports
Dedicated Management 10/100 Port	1	1	1
RJ-45 Serial Console Port	1	1	1
orm Factor	1 RU Rack Mount	1 RU Rack Mount	1 RU Rack Mount
Power over Ethernet (PoE) Ports	24 (802.3af/802.3at)	NA	12 (802.3af/802.3at)
oE Power Budget	370 W	NA	180 W
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
System Specifications			
witching Capacity (Duplex)	56 Gbps	56 Gbps	56 Gbps
ackets Per Second (Duplex)	83 Mpps	83 Mpps	83 Mpps
MAC Address Storage	16 K	16 K	16 K
Network Latency	< 1µs	< 1µs	< 1µs
/LANs Supported	4 K	4 K	4 K
ink Aggregation Group Size	8	8	8
otal Link Aggregation Groups	Up to number of ports	Up to number of ports	Up to number of ports
Packet Buffers	1.5 MB	1.5 MB	1.5 MB
DRAM	512 MB DDR3	512 MB DDR3	512 MB DDR3
FLASH	128 MB	128 MB	128 MB
Dimensions			
leight x Depth x Width (inches)	1.73 x 12.2 x 17.5	1.73 x 9 x 12.99	1.73 x 9 x 12.99
łeight x Depth x Width (mm)	44 x 310 x 440	44 x 230 x 330	44 x 230 x 330
Veight	10.64 lbs (4.83 kg)	4.78 lbs (2 <mark>.17 k</mark> g)	5.37 lbs (2.44 kg)
invironment			
Power Required	100-240V AC, 50/60 Hz	100–240V AC, 50/60 Hz	100–240V AC, 50/60 Hz
Power Supply	AC built in	AC built in	AC built in
Redundant Power	Optional FRPS-740	Redundant AC	Optional FRPS-740
Power Consumption* (Average / Maximum)	380 W / 397 W	17.2 W / 17.3 W	220.18 W / 223.57 W
leat Dissipation	85 BTU/h	59.095 BTU/h	74.29554 BTU/h
perating Temperature	32-122°F (0-50°C)	32-122°F (0-50°C)	32-122°F (0-50°C)
Storage Temperature	-4–158°F (-20–70° <mark>C)</mark>	-4–158°F (-20–70°C)	-4–158°F (-20–70°C)
lumidity	10-90% non-condensing	10–90% non-condensing	10–90% non-condensing
Air-Flow Direction	side-to-b <mark>ack</mark>	side-to-back	side-to-back
Certification and Compliance			
	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2		
Varranty			
Fortinet Warranty		Limited lifetime** warranty on all n	nodels

 $^{^{\}star}$ POE models power consumption is similar to non-POE model if POE is not in use

^{**} Fortinet Warranty Policy: http://www.fortinet.com/doc/legal/EULA.pdf



FortiSwitch 224D-FPOE



FortiSwitch 224E



FortiSwitch 224E-POE



	- CONTINUE C			
	F - Militarist Militarist 2	* ************************************		
	FORTISWITCH 248D	FORTISWITCH 248E-P0E	FORTISWITCH 248E-FP0E	
Hardware Specifications				
Total Network Interfaces	48x GE RJ45 ports and 4x GE SFP ports	48x GE RJ45 ports and 4x GE SFP ports	48x GE RJ45 ports and 4x GE SFP ports	
Dedicated Management 10/100 Port	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 (802.3af/802.3at)	48 (802.3af/802.3at)	
PoE Power Budget	N/A	370 W	740 W	
Mean Time Between Failures	> 10 years	> 10 years	> 10 years	
System Specifications				
Switching Capacity (Duplex)	104 Gbps	104 Gbps	104 Gbps	
Packets Per Second (Duplex)	155 Mpps	155 Mpps	155 Mpps	
MAC Address Storage	16 K	16 K	16 K	
Network Latency	< 1µs	< 1µs	< 1µs	
/LANs Supported	4 K	4 K	4 K	
ink Aggregation Group Size	8	8	8	
otal Link Aggregation Groups	Up to number of ports	Up to number of ports	Up to number of ports	
acket Buffers	1.5 MB	1.5 MB	1.5 MB	
DRAM	512 MB DDR3	512 MB DDR3	512 MB DDR3	
ELASH	128 MB	128 MB	128 MB	
Dimensions				
Height x Depth x Width (inches)	1.73 x 9.68 x 17.3	1.73 x 16.1 x 17.3	1.73 x 16.1 x 17.3	
Height x Depth x Width (mm)	44 x 246 x 440	44 x 410 x 440	44 x 410 x 440	
Veight	7.81 lbs (3.54 kg)	12.12 lbs (<mark>5.5 k</mark> g)	13.44 lbs (6.1 kg)	
Environment				
Power Required	100-240V AC, 50/60 Hz	100-2 <mark>4</mark> 0V AC, 50/60 Hz	100-240V AC, 50/60 Hz	
Power Supply	AC built in	AC built in	AC built in	
Redundant Power	_	Optional FRPS-740	Optional FRPS-740	
Power Consumption* (Average / Maximum)	38.66 W / 39.19 W	457.46 W / 466.47 W	842 W / 855.02 W	
leat Dissipation	134 BTU/h	177.14268 BTU/h	162.87865 BTU/h	
Operating Temperature	32-122°F (0-50°C)	32-122°F (0-50°C)	32-122°F (0-50°C)	
Storage Temperature	-4–158°F (-20–70° C)	-4-158°F (-20-70°C)	-4–158°F (-20–70°C)	
lumidity	10—90% non- <mark>condensing</mark>	10-90% non-condensing	10–90% non-condensing	
uir-Flow Direction	side-to-ba <mark>ck</mark>	side-to-back	side-to-back	
Certification and Compliance				
		FCC, CE, RCM, VCCI, BSMI, UL, CB, R	oHS2	
<i>N</i> arranty				
Fortinet Warranty		Limited lifetime** warranty on all mod	dels	

^{*} POE models power consumption is similar to non-POE model if POE is not in use

 $^{^{\}star\star} \ \, \text{Fortinet Warranty Policy: } \, \underline{\text{http://www.fortinet.com/doc/legal/EULA.pdf}}$



FortiSwitch 248D



FortiSwitch 248E-POE



FortiSwitch 248E-FPOE



	PT 000 PT V 17 NO. V		
			- I BERRET DECCES
	FORTISWITCH 424D	FORTISWITCH 424D-P0E	FORTISWITCH 424D-FP0E
Hardware Specifications			
Total Network Interfaces	24x GE RJ45 and 2x10 GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	24x GE RJ45 and 2x10 GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	24x GE RJ45 and 2x10 GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP
Dedicated Management 10/100 Port	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 (802.3af/at)	24 (802.3af/at)
PoE Power Budget	N/A	185 W	370 W
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
System Specifications			
Switching Capacity (Duplex)	88 Gbps	88 Gbps	88 Gbps
Packets Per Second (Duplex)	131 Mpps	131 Mpps	131 Mpps
MAC Address Storage	16 K	16 K	16 K
Network Latency	< 1µs	< 1µs	< 1µs
VLANs Supported	4 K	4 K	4 K
Link Aggregation Group Size	8	8	8
Total Link Aggregation Groups	Up to number of ports	Up to number of ports	Up to number of ports
Packet Buffers	1.5 MB	1.5 MB	1.5 MB
DRAM	1 GB DDR3	1 GB DDR3	1 GB DDR3
FLASH	128 MB	128 MB	128 MB
Dimensions			
Height x Depth x Width (inches)	1.75 x 10.12 x 17.3	1.75 x 10.12 x 17.3	1.73 x 12.2 x 17.5
Height x Depth x Width (mm)	44 x 250 x 440	44 x 250 x 440	44 x 310 x 440
Weight	7.14 lbs (3.24 kg)	8.42 lbs (3.82 kg)	10.64 lbs (4.83 kg)
Environment			
Power Required	100-240V AC, 50/60 Hz	100–2 <mark>40V</mark> AC, 50/60 Hz	100-240V AC, 50/60 Hz
Power Supply	AC built in	AC built in	AC built in
Redundant Power	Redundant AC	Optional FRPS-740	Optional FRPS-740
Power Consumption* (Average / Maximum)	17.3 W / 17.2 W	208 W / 210 W	397 W / 403 W
Heat Dissipation	69 BTU/h	89 BTU/h	100 BTU/h
Operating Temperature	32-122°F (0-50°C)	32-122°F (0-50°C)	32-122°F (0-50°C)
Storage Temperature	-4-158°F (-20-70°C)	-4–158°F (-20–70°C)	-4–158°F (-20–70°C)
Humidity	10–90% non-condensing	10–90% non-condensing	10–90% non-condensing
Air-Flow Direction	side-to-back	side-to-back	side-to-back
Certification and Compliance			
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	
Warranty			
Fortinet Warranty		Limited lifetime** warranty on all models	

 $[\]ensuremath{^{\star}}\xspace \ensuremath{^{\mathsf{POE}}}\xspace$ models power consumption is similar to non-POE model if POE is not in use

 $^{^{\}star\star} \ \mathsf{Fortinet} \ \mathsf{Warranty} \ \mathsf{Policy:} \ \mathbf{http://www.fortinet.com/doc/legal/EULA.pdf}$







FortiSwitch 424D-POE



FortiSwitch 424D-FPOE



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	FORTISWITCH 448D	FORTISWITCH 448D-POE	FORTISWITCH 448D-FP0E
Hardware Specifications	Tomomical Hob	10111011110111105102	10111011110111102
Total Network Interfaces	48x GE RJ45 and 4x10 GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	48x GE RJ45 and 4x10 GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	48x GE RJ45 and 4x10 GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP
Dedicated Management 10/100 Port	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	_	48 (802.3af/at)	48 (802.3af/at)
PoE Power Budget	N/A	370 W	740 W
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
System Specifications			
Switching Capacity (Duplex)	176 Gbps	176 Gbps	176 Gbps
Packets Per Second (Duplex)	262 Mpps	262 Mpps	262 Mpps
MAC Address Storage	16 K	16 K	16 K
Network Latency	< 1µs	< 1µs	< 1µs
VLANs Supported	4 K	4 K	4 K
Link Aggregation Group Size	8	8	8
Total Link Aggregation Groups	Up to number of ports	Up to number of ports	Up to number of ports
Packet Buffers	1.5 MB	1.5 MB	1.5 MB
DRAM	1 GB DDR3	1 GB DDR3	1 GB DDR3
FLASH	128 MB	128 MB	128 MB
Dimensions			
Height x Depth x Width (inches)	1.75 x 12.2 x 17.3	1.73 x 16.1 x 17.3	1.73 x 16.1 x 17.3
Height x Depth x Width (mm)	44 x 310 x 440	44 x 410 x 440	44 x 410 x 440
Weight	9.15 lbs (4.15 kg)	13.44 lbs (6.1 kg)	15.45 lbs (7.01 kg)
Environment			
Power Required	100-240V AC, 50/60 Hz	100–240V AC, 50/60 Hz	100-240V AC, 50/60 Hz
Power Supply	AC built in	AC buil <mark>t in</mark>	AC built in
Redundant Power	Redundant AC	Optional FRPS-740	Redundant AC
Power Consumption* (Average / Maximum)	38 W / 38 W	417 W / 419 W	790 W / 792 W
Heat Dissipation	147 BTU/h	177 BTU/h	193 BTU/h
Operating Temperature	32-122°F (0-50°C)	32-122°F (0-50°C)	32-122°F (0-50°C)
Storage Temperature	-4-158°F (-20-70°C)	-4–158°F (-20–70°C)	-4–158°F (-20–70°C)
Humidity	10–90% non-condensing	10–90% non-condensing	10–90% non-condensing
Air-Flow Direction	side-to-back	side-to-back	side-to-back
Certification and Compliance			
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	
Warranty			
Fortinet Warranty		Limited lifetime** warranty on all models	

^{*} POE models power consumption is similar to non-POE model if POE is not in use

 $[\]hbox{\begin{tabular}{l} **} For tinet Warranty Policy: {\bf http://www.for tinet.com/doc/legal/EULA.pdf} \\ \end{tabular}$





FortiSwitch 448D-POE



FortiSwitch 448D-FPOE

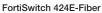


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	FORTISWITCH-424E-FIBER	FORTISWITCH-M426E-FP0E
Hardware Specifications		
Total Network Interfaces	24x GE SFP and 4x 10GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	16x GE RJ45, 8x 2.5 GE RJ45 ports, 2x 5 GE RJ45, and 4x 10 GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP
Dedicated Management 10/100 Port	1	1
RJ-45 Serial Console Port	1	1
Form Factor	1 RU Rack Mount	1 RU Rack Mount
Power over Ethernet (PoE) Ports	N/A	24 (16x 802.3af/at, 8x 802.3af/at/UPOE)
PoE Power Budget	N/A	420 W
Mean Time Between Failures	> 10 years	> 10 years
System Specifications		
Switching Capacity (Duplex)	128 Gbps	172 Gbps
Packets Per Second (Duplex)	204 Mpps	255 Mpps
MAC Address Storage	32 K	16 K
Network Latency	< 1µs	< 1µs
VLANs Supported	4 K	4 K
Link Aggregation Group Size	8	8
Total Link Aggregation Groups	Up to number of ports	Up to number of ports
Packet Buffers	4 MB	2 MB
DRAM	1 GB DDR4	1 GB DDR4
FLASH	256 MB	256 MB
Dimensions		
Height x Depth x Width (inches)	1.75 x 7.87 x 17.3	1.73 x 16.14 x 17.3
Height x Depth x Width (mm)	44 x 200 x 440	44 x 410 x 440
Weight	5.62 lbs (2.55 kg)	13.00 lbs (5.9 kg)
Environment		
Power Required	100–240V AC, 50/60 Hz	100-240V AC, 50/60 Hz
Power Supply	AC built in	AC built in
Redundant Power	Redundant AC	Redundant AC
Power Consumption* (Average / Maximum)	36 W / 38 W	441 W / 442 W
Heat Dissipation	132.5 BTU/h	132.734 BTU/h
Operating Temperature	32-113°F (0-45°C)	32-122°F (0-50°C)
Storage Temperature	-4-158°F (-20 <mark>-70°C)</mark>	-4–158°F (-20–70°C)
Humidity	5—95% n <mark>on-condens</mark> ing	5–95% non-condensing
Air-Flow Direction	side-t <mark>o-back</mark>	side-to-back
Certification and Compliance		
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2
Warranty		
Fortinet Warranty		Limited lifetime** warranty on all models

 $[\]ensuremath{^{\star}}\xspace\operatorname{POE}\xspace$ models power consumption is similar to non-POE model if POE is not in use

 $^{^{\}star\star} \ \mathsf{Fortinet} \ \mathsf{Warranty} \ \mathsf{Policy:} \ \mathbf{http://www.fortinet.com/doc/legal/EULA.pdf}$







FortiSwitch M426E-FPOE



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	E	E	E	
	FORTISWITCH 424E	FORTISWITCH 424E-P0E	FORTISWITCH 424E-FP0E	
Hardware Specifications				
Total Network Interfaces	24x GE RJ45 and 4x10 GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	24x GE RJ45 and 4x10 GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	24x GE RJ45 and 4x10 GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFF	
Dedicated Management 10/100 Port	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 (802.3af/at)	24 (802.3af/at)	
PoE Power Budget	N/A	250 W	421 W	
Mean Time Between Failures	> 10 years	> 10 years	> 10 years	
System Specifications				
Switching Capacity (Duplex)	128 Gbps	128 Gbps	128 Gbps	
Packets Per Second (Duplex)	204 Mpps	204 Mpps	204 Mpps	
MAC Address Storage	16 K	16 K	16 K	
Network Latency	< 1µs	< 1µs	< 1µs	
VLANs Supported	4 K	4 K	4 K	
Link Aggregation Group Size	8	8	8	
Total Link Aggregation Groups	Up to number of ports	Up to number of ports	Up to number of ports	
Packet Buffers	2 MB	2 MB	2 MB	
DRAM	1 GB DDR4	1 GB DDR4	1 GB DDR4	
FLASH	256 MB	256 MB	256 MB	
Dimensions				
Height x Depth x Width (inches)	1.75 x 10.23 x 17.3	1.75 x 16.14 x 17.3	1.75 x 16.14 x 17.3	
Height x Depth x Width (mm)	44 x 260 x 440	44 x 410 x 440	44 x 410 x 440	
Weight	6.83 lbs (3.1 kg)	11.57 lbs (5.25 kg)	12.72 lbs (5.77 kg)	
Environment				
Power Required	100-240V AC, 50/60 Hz	100-240V AC <mark>, 5</mark> 0/60 Hz	100-240V AC, 50/60 Hz	
Power Supply	AC built in	AC built in	AC built in	
Redundant Power	Redundant AC	Redundant AC	Redundant AC	
Power Consumption* (Average / Maximum)	22.3 W / 23.6 W	281.3 W / 283.5 W	431.2 W / 433.7 W	
Heat Dissipation	76.04 BTU/h	102.64 BTU/h	117.2 BTU/h	
Operating Temperature	32-113°F (0-45°C)	32-113°F (0-45°C)	32-122°F (0-45°C)	
Storage Temperature	-40–158°F (-40–70°C)	-4–158°F (-40–70°C)	-40–158°F (-40–70°C)	
Humidity	5–95% non-condensing	5–95% non-condensing	5–95% non-condensing	
Air-Flow Direction	side-to-back	side-to-back	side-to-back	
Certification and Compliance				
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2		
Warranty				
Fortinet Warranty		Limited lifetime** warranty on all models		

^{*} POE models power consumption is similar to non-POE model if POE is not in use

^{**} Fortinet Warranty Policy: http://www.fortinet.com/doc/legal/EULA.pdf





FortiSwitch 424E FortiSwitch 424E-POE



FortiSwitch 424E-FPOE



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	FORTISWITCH 448E	FORTISWITCH 448E-POE	FORTISWITCH 448E-FP0E	
Hardware Specifications				
Total Network Interfaces	48x GE RJ45 and 4x 10GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	48x GE RJ45 and 4x 10GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	48x GE RJ45 and 4x 10GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	
Dedicated Management 10/100 Port	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	_	48 (802.3af/at)	48 (802.3af/at)	
PoE Power Budget	_	421 W	772 W	
Mean Time Between Failures	> 10 years	> 10 years	> 10 years	
System Specifications				
Switching Capacity (Duplex)	176 Gbps	176 Gbps	176 Gbps	
Packets Per Second (Duplex)	262 Mpps	262 Mpps	262 Mpps	
MAC Address Storage	32 K	32 K	32 K	
Network Latency	<1µs	<1µs	<1µs	
VLANs Supported	4 K	4 K	4 K	
Link Aggregation Group Size	8	8	8	
Total Link Aggregation Groups	Up to number of ports	Up to number of ports	Up to number of ports	
Packet Buffers	2 MB	2 MB	2 MB	
DRAM	1GB DDR4	1GB DDR4	1GB DDR4	
FLASH	256 MB	256 MB	256 MB	
Dimensions				
Height x Depth x Width (inches)	1.75 x 12.2 x 17.3	1.73 x 16.1 x 17.3	1.73 x 16.1 x 17.3	
Height x Depth x Width (mm)	44 x 310 x 440	44 x 410 x 440	44 x 410 x 440	
Weight	9.17 lbs (4.16 kg)	13.8 lbs (6.26 kg)	14.04 lbs (6.37 kg)	
Environment				
Power Required	100–240V AC, 50/60 Hz	100–240V AC <mark>,</mark> 50/60 Hz	100-240V AC, 50/60 Hz	
Power Supply	AC built in	AC buil <mark>t in</mark>	AC built in	
Redundant Power	Redundant AC	Re <mark>dundant</mark> AC	Redundant AC	
Power Consumption* (Average / Maximum)	46.5 W / 47.81 W	440.12 W / 442.234 W	921.4 W / 923.6 W	
Heat Dissipation	163.032 BTU/h	163.066 BTU/h	163.1 BTU/h	
Operating Temperature	32-122°F (0-50°C)	32-122°F (0-50°C)	32-122°F (0-50°C)	
Storage Temperature	-4–158°F (-20–70°C)	-4–158°F (-20–70°C)	-4–158°F (-20–70°C)	
Humidity	10–90% non condensing	10–90% non condensing	10–90% non condensing	
Air-Flow Direction	side-to-back	side-to-back	side-to-back	
Certification and Compliance				
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2		
Warranty				
Fortinet Warranty		Limited lifetime** warranty on all models		

Fortinet Warranty * POE models power consumption is similar to non-POE model if POE is not in use

 $^{^{\}star\star} \ \mathsf{Fortinet} \ \mathsf{Warranty} \ \mathsf{Policy:} \ \mathbf{http://www.fortinet.com/doc/legal/EULA.pdf}$





FortiSwitch 448E FortiSwitch 448E-POE



FortiSwitch 448E-FPOE



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	, consessed HI	; II.		
	FORTISWITCH 524D	FORTISWITCH 524D-FP0E	FORTISWITCH 548D	FORTISWITCH 548D-FP0E
Hardware Specifications				
Total Network Interfaces	24 GE/RJ45 ports, 4x 10 GE SFP+ ports and 2x 40 GE QSFP Note: SFP+ ports are compatible with 1G SFP	24 GE/RJ45 ports, 4x 10 GE SFP+ ports and 2x 40 GE QSFP Note: SFP+ ports are compatible with 1G SFP	48x GE/RJ45 ports, 4x 10 GE SFP+ ports and 2x 40 GE QSFP Note: SFP+ ports are compatible with 1G SFP	48x GE/RJ45 ports, 4x 10 GE SFP+ ports and 2x 40 GE QSFP Note: SFP+ ports are compatit with 1G SFP
Dedicated Management 10/100/1000 Ports	1	1	1	1
RJ-45 Serial Console Port	1	1	1	1
Form Factor	1 RU Rack Mount	1 RU Rack Mount	1 RU Rack Mount	1 RU Rack Mount
Power over Ethernet (PoE) Ports	N/A	24 (802.3af/at)	N/A	48 (802.3af/at)
PoE Power Budget	N/A	400 W	N/A	750 W
Mean Time Between Failures	> 10 years	> 10 years	> 10 years	> 10 years
System Specifications				
Switching Capacity (Duplex)	288 Gbps	288 Gbps	336 Gbps	336 Gbps
Packets Per Second (Duplex)	428 Mpps	428 Mpps	512 Mpps	512 Mpps
MAC Address Storage	96 K	96 K	96 K	96 K
Network Latency	< 2µs	< 2µs	< 2µs	< 2µs
VLANs Supported	4 K	4 K	4 K	4 K
Link Aggregation Group Size	24	24	48	48
Total Link Aggregation Groups	Up to number of ports	Up to number of ports	Up to numbe <mark>r of ports</mark>	Up to number of ports
Packet Buffers	4 MB	4 MB	4 MB	4 MB
DRAM	2 GB DDR3	2 GB DDR3	2 GB DDR3	2 GB DDR3
FLASH	128 MB	128 MB	128 MB	128 MB
Dimensions				
Height x Depth x Width (inches)	1.75 x 13.8 x 17.3	1.75 x 13.8 x 17.3	1.75 x 13.8 x 17.3	1.75 x 13.8 x 17.3
Height x Depth x Width (mm)	44 x 350 x 439	44 x 350 x 439 44 x 350 x 439		44 x 350 x 439
Weight	13.6 lbs (6.2 kg)	15.74 lbs (7.14 kg)	14.1 lbs (6.4 kg)	15.74 lbs (7.14 kg)
Environment				
Power Required	100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz
Power Supply	150 W AC PSU*	600 W AC PSU*	150 W AC PSU*	920 W AC PSU*
Redundant Power	Optional FS-PSU-150* (for 150 W backup only)	Optional FS-PSU-600* (for 600 W for additional PoE)	Optional FS-PSU-150* (for 150 W backup only)	Optional FS-PSU-900* (for 900 W for additional PoE)
Power Consumption** (Average / Maximum)	73 W / 75 W	570 W / 579 W (full PoE load)	74 W / 77 W	925 W / 961 W (full PoE load)
Heat Dissipation	247 BTU/h	296 BTU/h (full PoE loading)	252 BTU/h	318 BTU/h (full PoE loading)
Operating Temperature	32-113°F (0-45°C)	32-113°F (0-45°C)	32-113°F (0-45°C)	32-113°F (0-45°C)
Storage Temperature	-40–158°F (- <mark>40–</mark> 70°C)	-40-158°F (-40-70°C)	-40-158°F (-40-70°C)	-40–158°F (-40–70°C)
Humidity	5–95% non- <mark>condens</mark> ing	5–95% non-condensing	5–95% non-condensing	5-95% non-condensing
Air-Flow Direction	front-to-back	front-to-back	front-to-back	front-to-back
Certification and Compliance				
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FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2

Limited lifetime*** warranty on all models

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*FS-524D, FS-524D-FP0E, FS-548D	D, FS-548D-FPOE Power Supply Units are Hot-Swappable

^{**} POE models power consumption is similar to non-POE model if POE is not in use

^{***} Fortinet Warranty Policy: http://www.fortinet.com/doc/legal/EULA.pdf





FortiSwitch 548D



FortiSwitch 524D-FPOE



FortiSwitch 548D-FPOE



Warranty

Order Information

Product	SKU	Description
FortiSwitch 108E	FS-108E	Layer 2 FortiGate switch controller compatible switch with 8 GE RJ45 + 2 SFP ports, line AC and PSE dual powered. Fanless.
FortiSwitch 108E-P0E	FS-108E-P0E	Layer 2 FortiGate switch controller compatible PoE+ switch with 8 GE RJ45 + 2 SFP ports, 4 port PoE with maximum 65 W PoE limit. Fanless.
FortiSwitch 108E-FP0E	FS-108E-FPOE	Layer 2 FortiGate switch controller compatible PoE+ switch with 8 GE RJ45 + 2 SFP ports, 8 port PoE with maximum 130 W PoE limit. Fanless.
FortiSwitch 124E	FS-124E	Layer 2 FortiGate switch controller compatible switch with 24 GE RJ45 + 4 SFP ports. Fanless.
FortiSwitch 124E-P0E	FS-124E-P0E	Layer 2 FortiGate switch controller compatible PoE+ switch with 24 GE RJ45 + 4 SFP ports, 12 port PoE with maximum 185 W limit.
FortiSwitch 124E-F-P0E	FS-124E-FPOE	Layer 2 FortiGate switch controller compatible PoE+ switch with 24 GE RJ45 + 4 SFP ports, 24 port PoE with maximum 370 W limit.
FortiSwitch 148E	FS-148E	Layer 2 FortiGate switch controller compatible switch with 48 GE RJ45 + 4 SFP ports.
FortiSwitch 148E-P0E	FS-148E-P0E	Layer 2 FortiGate switch controller compatible PoE+ switch with 48 GE RJ45 + 4 SFP ports, 24 port PoE with maximum 370 W limit.
FortiSwitch 124F	FS-124F	Layer 2 FortiGate switch controller compatible switch with 24 GE RJ45 + 4 10G SFP+ ports.
FortiSwitch 124F-P0E	FS-124F-P0E	Layer 2 FortiGate switch controller compatible PoE+ switch with 24 GE RJ45 + 4 10G SFP+ ports, 12 port PoE with maximum 185 W limit.
FortiSwitch 124F-FP0E	FS-124F-FP0E	Layer 2 FortiGate switch controller compatible PoE+ switch with 24 GE RJ45 + 4 10G SFP+ ports, 24 port PoE with maximum 370 W limit.
FortiSwitch 148F	FS-148F	Layer 2 FortiGate switch controller compatible switch with 48 GE RJ45 + 4 10G SFP+ ports.
FortiSwitch 148F-P0E	FS-148F-P0E	Layer 2 FortiGate switch controller compatible PoE+ switch with 48 GE RJ45 + 4 10G SFP+ ports, 24 port PoE with maximum 370 W limit.
FortiSwitch 148F-FP0E	FS-148F-FP0E	Layer 2 FortiGate switch controller compatible PoE+ switch with 48 GE RJ45 + 4 10G SFP+ ports, 48 port PoE with maximum 740 W limit.
FortiSwitch 224D-FP0E	FS-224D-FP0E	Layer 2/3 FortiGate switch controller compatible PoE+ switch with 24 GE RJ45 + 4 SFP ports, 24 port PoE with maximum 370 W limit.
FortiSwitch 224E	FS-224E	Layer 2/3 FortiGate switch controller compatible switch with 24 GE RJ45 + 4 SFP ports. Fanless.
FortiSwitch 224E-P0E	FS-224E-P0E	Layer 2/3 FortiGate switch controller compatible PoE+ switch with 24 GE RJ45 + 4 SFP ports, 12 port PoE with maximum 180 W limit.
FortiSwitch 248D	FS-248D	Layer 2/3 FortiGate switch controller compatible switch with 48 GE RJ45 + 4 SFP ports.
FortiSwitch 248E-P0E	FS-248E-P0E	Layer 2/3 FortiGate switch controller compatible PoE+ switch with 48 GE RJ45 + 4 SFP ports, 24 port PoE with maximum 370 W limit.
FortiSwitch 248E-FP0E	FS-248E-FPOE	Layer 2/3 FortiGate switch controller compatible PoE+ switch with 48 GE RJ45 + 4 SFP ports, 48 port PoE with maximum 740 W limit.
FortiSwitch 424D	FS-424D	Layer 2/3 FortiGate switch controller compatible switch with 24 GE RJ45 + 2x 10 GE SFP+ ports.
FortiSwitch 424D-P0E	FS-424D-POE	Layer 2/3 FortiGate switch controller compatible PoE+ switch with 24 GE RJ45 + 2x 10 GE SFP+ ports, 24 port PoE with maximum 185 W limit.
FortiSwitch 424D-FP0E	FS-424D-FP0E	Layer 2/3 FortiGate switch controller compatible PoE+ switch with 24 GE RJ45 + 2x 10 GE SFP+ ports, 24 port PoE with maximum 370 W limit.
FortiSwitch 448D	FS-448D	Layer 2/3 FortiGate switch controller compatible switch with 48 GE RJ45 + 4x 10 GE SFP+ ports.
FortiSwitch 448D-P0E	FS-448D-POE	Layer 2/3 FortiGate switch controller compatible PoE+ switch with 48 GE RJ45 + 4x 10 GE SFP+ ports, 48 port PoE with maximum 370 W limit.
FortiSwitch 448D-FP0E	FS-448D-FP0E	Layer 2/3 FortiGate switch controller compatible PoE+ switch with 48 GE RJ45 + 4x 10 GE SFP+ ports, 48 port PoE with maximum 740 W limit.
FortiSwitch 424E-Fiber	FS-424E-Fiber	Layer 2/3 FortiGate switch controller compatible switch with 24x GE SFP and 4x 10 GE SFP+ Uplinks
FortiSwitch M426E-FP0E	FS-M426E-FP0E	Layer 2/3 FortiGate switch controller compatible PoE+/UPoE switch with 16x GE RJ45, 8x 2.5 RJ45, 2x 5 GE RJ45 and 4x 10 GE SFP+, 24 port PoE+ with maximum 420 W limit.
FortiSwitch 424E	FS-424E	Layer 2/3 FortiGate switch controller compatible switch with 24 GE RJ45, 4x 10 GE SFP + ports.
FortiSwitch 424E-POE	FS-424E-P0E	Layer 2/3 FortiGate switch controller compatible switch with 24 GE RJ45, 4x 10 GE SFP + ports, 24 port PoE+ with maximum 283.5 W limit.
FortiSwitch 424E-FP0E	FS-424E-FPOE	Layer 2/3 FortiGate switch controller compatible switch with 24 GE RJ45, 4x 10 GE SFP + ports, 24 port PoE+ with maximum 433.7 W limit.
FortiSwitch 448E	FS-448E	Layer 2/3 FortiGate switch controller compatible switch with 48 GE RJ45, 4x 10 GE SFP + ports.
FortiSwitch 448E-P0E	FS-448E-P0E	Layer 2/3 FortiGate switch controller compatible switch with 48 GE RJ45, 4x 10 GE SFP + ports, 48 port PoE+ with maximum 421 W limit.
FortiSwitch 448E-FP0E	FS-448E-FPOE	Layer 2/3 FortiGate switch controller compatible switch with 48 GE RJ45, 4x 10 GE SFP + ports, 48 port PoE+ with maximum 772 W limit.
FortiSwitch 524D	FS-524D	Layer 2/3 FortiGate switch controller compatible switch with 24 GE RJ45, 4x 10 GE SFP+ and 2x 40 GE QSFP+ ports.
FortiSwitch 524D-FP0E	FS-524D-FPOE	Layer 2/3 FortiGate switch controller compatible PoE+ switch with 24 GE RJ45, 4x 10 GE SFP+, 2x 40 GE QSFP+ ports, 24 port PoE with maximum 400 W limit.
FortiSwitch 548D	FS-548D	Layer 2/3 FortiGate switch controller compatible switch with 48 GE RJ45, 4x 10 GE SFP+ and 2x 40 GE QSFP+ ports.
FortiSwitch 548D-FP0E	FS-548D-FP0E	Layer 2/3 FortiGate switch controller compatible PoE+ switch with 48 GE RJ45, 4x 10 GE SFP+ and 2x 40 GE QSFP+ ports, 48 port PoE with maximum 750 W limit.
FortiSwitch Cloud Management License*	FC-10-WMSC1-190-02-DD	FortiSwitch Cloud Management License subscription 1 Year Contract.



Order Information

Accessories		
FortiSwitch Advanced Features License	FS-SW-LIC-200	SW License for FS-200 Series Switches to activate Advanced Features.
	FS-SW-LIC-400	SW License for FS-400 Series Switches to activate Advanced Features.
	FS-SW-LIC-500	SW License for FS-500 Series Switches to activate Advanced Features.
External Redundant AC Power Supply	FRPS-740	Redundant AC power supply for up to 2 units: FS-224D-FPOE, FS-248D-FPOE, FS-424D-FPOE, FS-448D-POE and FS-424D-POE.
Redundant AC Power Supply	FS-PSU-150	AC power supply for FS-548D and FS-524D.
	FS-PSU-600	AC power supply for FS-524D-FPOE.**
	FS-PSU-900	AC power supply for FS-548D-FPOE.**

^{*} When managing a FortiSwitch with a FortiGate via FortiGate Cloud, no additional license is necessary. ** Provides additional PoE capacity.

For details of Transceiver modules, see the Fortinet Transceivers datasheet. Note that all PoE FortiSwitches are Alternative-A.



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