

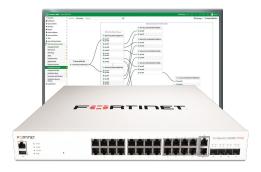
DATA SHEET

FortiSwitch™ Secure Access

Available in:



Appliance



Security, Performance, and Manageability

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 and campus 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.

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 compact1 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
- 4× 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 and Multi-Gig port options, PoE+ and UPOE options
- Larger wiring closet or high throughput requirements
- 4× 10 GE SFP+ uplink ports

Aggregation

500 Series

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

DEPLOYMENT OVERVIEW

FortiSwitch is commonly managed and deployed through our FortiGate with FortiLink but can also be deployed and managed in non-FortiGate environments

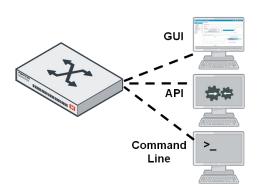
FortiGate

- Deployment and management via FortiLink
- Security extended from NGFW
- Most common Fortinet deployment model

SD-Branch SD-Branch SD-Branch SD-Branch FortiLink Hybrid Cloud SD-WAN

Non-FortiGate

- Standalone GUI or CLI
- Manage at scale with FortiSwitch Manager
- Industry standard, no Fortinet Security Fabric integration



Cloud Management for both deployment options available through FortiCloud





PRODUCT OFFERINGS

Model Numbers

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

FEATURES

Refer to the FortiSwitch Feature Matrix for details about the features supported by each FortiSwitch model.

FORTISWITCH FORTILINK MODE (WITH FORTIGATE)
Management and Configuration
Auto Discovery of Multiple Switches
8 to 300 Managed Switches depending on FortiGate model
FortiLink Stacking (Auto Inter-Switch Links)
Software Upgrade of Switches
Centralized VLAN Configuration
Switch POE Control
Link Aggregation Configuration
Spanning Tree
LLDP/MED
IGMP Snooping
L3 Routing and Services (FortiGate)
Policy-Based Routing (FortiGate)
Virtual Domain (FortiGate)
Automated detection and recommendations
Dynamic Port Profiles for FortiSwitch ports
Provision firmware upon authorization
Health Monitoring
High Availability
Support FortiLink FortiGate in HA Cluster
LAG support for FortiLink Connection
Active-Active Split LAG from FortiGate to FortiSwitches for Advanced Redundancy

FORTISWITCH FORTILINK MODE (WITH FORTIGATE)
Security and Visibility
802.1X Authentication (Port-based, MAC-based, MAB)
Syslog Collection
DHCP Snooping
Device Detection
MAC Black/While Listing (FortiGate)
Policy Control of Users and Devices (FortiGate)
Block Intra-VLAN Traffic
Network Device Detection
Host Quarantine on Switch Port
Integrated FortiGate Network Access Control (NAC) function
FortiGuard IoT identification
FortiSwitch recommendations in Security Rating
Switch Controller traffic collector
Port Statistics
Clients Monitoring
UTM Features
Firewall (FortiGate)
IPC, AV, Application Control, Botnet (FortiGate)



Refer to the FortiSwitch Feature Matrix for details about the features supported by each FortiSwitch model.

	FORTISWITCH
Layer 2	
Jumbo	Frames
Auto-n	egotiation for Port Speed and Duplex
MDI/M	DIX Auto-crossover
IEEE 80	D2.1D MAC Bridging/STP
IEEE 80	D2.1w Rapid Spanning Tree Protocol (RSTP)
IEEE 80	D2.1s Multiple Spanning Tree Protocol (MSTP)
	oot Guard
STP BF	PDU Guard
	ort / Port Fast
	22.1Q VLAN Tagging
Private	
	02.3ad Link Aggregation with LACP
	t/Multicast traffic balance over trunking port
	, dst-mac, src-dst-ip, src-dst-mac, src-ip, src-mac)
IEEE 80	D2.1AX Link Aggregation
Spanni	ng Tree Instances (MSTP/CST)
IEEE 80	02.3x Flow Control and Back-pressure
IEEE 80	02.3 10Base-T
IEEE 80	02.3u 100Base-TX
	02.3z 1000Base-SX/LX
)2.3ab 1000Base-T
	02.3ae 10 Gigabit Ethernet
	02.3az Energy Efficient Ethernet
	2.3bz Multi Gigabit Ethernet
	02.3 CSMA/CD Access Method and Physical Layer Specifications
	Control
	P, Ethertype-based VLANs
Virtual	
	ort (QSFP+ breakout to 4×10G SFP+ or 4×1G SFP)
	Oomain Reflectcometry (TDR) Support
	in/max bundle
	PVST interoperation
	s Pause Metering
Loop G	uard
	rt storm control
Priority	r-based Flow Control (802.1Qbb)
IEEE 80	02.1ad QinQ
VLAN I	Mapping
IEEE 80	02.3ba, 802.3bj, and 802.3bm 40 and 100 Gigabit Ethernet
Auto to	ppology
Dynam	ically shared packet buffers
Service	es
IGMP p	roxy / querier
MLD Si	nooping
MLD pı	oxy / querier
ICMD 9	nooping

FORTISWITCH
Layer 3
Static Routing (Hardware-based)
Dynamic Routing Protocols: OSPFv2, RIPv2, VRRP, BGP, ISIS *
Multicast Protocols: PIM-SSM *
ECMP
Bidirectional Forwarding Detection (BFD)
DHCP Relay
IP conflict detection and notification
DHCP server
Unicast Reverse Path Forwarding - uRPF
IPv6 route filtering
Filtering routemaps based on routing protocol
Security and Visibility
Port Mirroring
Admin Authentication Via RFC 2865 RADIUS
IEEE 802.1X Authentication Port-based
IEEE 802.1X Authentication MAC-based
IEEE 802.1X Guest and Fallback VLAN
IEEE 802.1X MAC Access Bypass (MAB)
IEEE 802.1X Dynamic VLAN Assignment
Radius CoA (Change of Authority)
Radius Accounting
MAC-IP Binding
sFlow
ACL
IEEE 802.1ab Link Layer Discovery Protocol (LLDP)
IEEE 802.1ab LLDP-MED
IEEE 802.1ae MAC Security (MAC Sec)
DHCP-Snooping
Dynamic ARP Inspection
Sticky MAC and MAC Limit
IEEE 802.1X open auth
IEEE 802.1X EAP pass-through
Flow Export (NetFlow and IPFIX)
ACL Multistage
ACL Multiple Ingress
ACL Schedule
IP source guard
IPv6 RA Guard
LLDP-MED ELIN support
Per-port and per-VLAN MAC learning limit
Assign VLANs via Radius attributes (RFC 4675)
Wake on LAN

^{*}Requires 'Advanced Features' License.



Refer to the FortiSwitch Feature Matrix for details about the features supported by each FortiSwitch model.

FORTISWITCH
High Availability
Multi-Chassis Link Aggregation (MCLAG)
Quality of Service
IEEE 802.1p Based Priority Queuing
IP TOS/DSCP Based Priority Queuing
IEEE 1588 PTP (Transparent Clock)
Explicit Congestion Notification
Egress priority tagging
Percentage Rate Control
Management
IPv4 and IPv6 Management
Telnet / SSH
HTTP/HTTPS
SNMP v1/v2c/v3
SNTP
Standard CLI and Web GUI Interface
Software download/upload: TFTP/FTP/GUI
Managed from FortiGate
Support for HTTP REST APIs for Configuration and Monitoring
Dual Firmware Support
RMON Group 1
Packet Capture
SPAN, RSPAN, and ERSPAN
Link Monitor
POE Control Modes
System Temperature and Alert
Syslog UDP/TCP
Provide warning if L2 table is getting full
Display Average Bandwidth and Allow Sorting on Physical Port / Interface Traffic
System alias command
SNMP v3 traps
Automation Stitches



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 2882: Capabilities Advertisement with BGP-4 RFC 2858: Multiprotocol Extensions for BGP-4 RFC 2658: Autonomous-System-Wide Unique BGP Identifier for BGP-4 RFC 6286: Autonomous-System-Wide Unique BGP Identifier for BGP-4 RFC 6808: Subcodes for BGP Finite State Machine Error
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RFC 6608: Subcodes for BGP Finite State Machine Error
RFC 6793: BGP Support for Four-Octet Autonomous System (AS) Number Space
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 DEC 2169: The Addition of Explicit Congestion Natification (ECN) to ID.
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
IP Multicast
RFC 2362: Protocol Independent Multicast-Sparse Mode (PIM-SM): Protocol Specification
RFC 2710: Multicast Listener Discovery (MLD) for IPv6 (MLDv1)
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 DEC 1573: SNMD MIR II
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.



ALL FORTISWITCH MODELS	
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 2665: Definitions of Managed Objects for the Ethernet-like Interface Types	
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	
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 * RFC and MIR supported by FortiSwitch Operating System. Check FortiSwitch Feature Matrix for model specific support	

^{*} RFC and MIB supported by FortiSwitch Operating System. Check FortiSwitch Feature Matrix for model specific support.



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	FORTISWITCH 108E-POE	FORTISWITCH 108E-FPOE
Hardware Specifications		
otal Network Interfaces	8x GE RJ45 and 2x GE SFP	8x GE RJ45 and 2x GE SFP
Dedicated Management 10/100 Port	0	0
J-45 Serial Console Port	1	1
orm Factor	1 RU Rack Mount	1 RU Rack Mount
ower over Ethernet (PoE) Ports	4 (802.3af/at)	8 (802.3af/at)
oE Power Budget	65 W	130 W
Mean Time Between Failures	> 10 years	> 10 years
ystem Specifications		
witching Capacity (Duplex)	20 Gbps	20 Gbps
ackets Per Second (Duplex)	30 Mpps	30 Mpps
IAC Address Storage	8 K	8 K
letwork Latency	4µs	4μs
LANs Supported	4 K	4 K
ink Aggregation Group Size	8	8
otal Link Aggregation Groups	8	8
acket Buffers	512 KB	512 KB
RAM	256 MB DDR3	256 MB DDR3
LASH	32 MB	32 MB
CL	640	640
panning Tree Instances	16	16
imensions		
eight x Depth x Width (inches)	1.7 × 8.2 × 13	1.7 × 8.2 × 13
eight x Depth x Width (mm)	44 × 209 × 330	44 × 209 × 330
/eight	4.3 lbs (1.95 kg)	4.5 lbs (2.04 kg)
nvironment		
ower Required	100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz
ower Supply	AC Built in	AC Built in
edundant Power	_	_
ower Consumption* (Average / Maximum)	70.19 W / 71.10 W	135.19 W / 136.10 W
eat Dissipation	17.7 BTU/h	17.7 BTU/h
perating Temperature	32°-113°F (0°-45°C)	32°-113°F (0°-45°C)
torage Temperature	-40°-158°F (-40°-70°C)	-40°-158°F (-40°-70°C)
umidity	10%–90% non-condensing	10%–90% non-condensing
ir-Flow Direction	side-to-back	side-to-back
oise Level	Fanless	Fanless
Certification and Compliance		
	FCC, CE, RCM, VCCI,	BSMI, UL, CB, RoHS2
Varranty Varranty		

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



Limited lifetime** warranty on all models

- 1000 - 1000 - 1000





FortiSwitch 108E-FPOE



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

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FORTIDET.

Limited lifetime* warranty on all models

SPECIFICATIONS

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	FORTISWITCH 108F	FORTISWITCH 108F-POE	FORTISWITCH 108F-FPOE
ardware Specifications			
otal 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
edicated Management 10/100 Port	0	0	0
J-45 Serial Console Port	1	1	1
orm Factor	Desktop	Deskop / 19" rack bracket	Deskop / 19" rack bracket
ower over Ethernet (PoE) Ports	0	8 (802.3af/at)	8 (802.3af/at)
oE Power Budget	0	65 W	130 W
ean Time Between Failures	> 10 years	> 10 years	> 10 years
ystem Specifications			
witching Capacity (Duplex)	20 Gbps	20 Gbps	20 Gbps
ackets Per Second (Duplex)	30 Mpps	30 Mpps	30 Mpps
IAC Address Storage	8 K	8 K	8 K
etwork Latency	4 μs	4 μs	4 μs
LANs Supported	4 K	4 K	4 K
nk Aggregation Group Size	8	8	8
otal Link Aggregation Groups	8	8	8
acket Buffers	512 KB	512 KB	512 KB
RAM	256 MB DDR3	256 MB DDR3	256 MB DDR3
LASH	32 MB	32 MB	32 MB
CL	768	768	768
panning Tree Instances	16	16	16
imensions			
eight x Depth x Width (inches)	1.18 × 4.72 × 7.09	1.73 × 8.23 × 9.85	1.73 × 8.23 × 9.85
eight x Depth x Width (mm)	30 × 120 × 180	44 × 209 × 250	44 × 209 × 250
/eight	1.36 lbs (0.62 kg)	3.75 lbs (1.70 kg)	4.05 lbs (1.84 kg)
nvironment			
ower Required	100-240V AC, 50/60 Hz / PoE-PSE(af)	100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz
ower Supply	12V/1A DC power adapter included, PoE-PD Built in	AC built in	AC built in
edundant Power	No	No	No
ower Consumption	6.2 W	74.4 W	139.2 W
eat Dissipation	21.142 BTU/h	34.12 BTU/h	34.56 BTU/h
perating Temperature	32°-113°F (0°-45°C)	32°-113°F (0°-45°C)	32°-113°F (0°-45°C)
torage Temperature	-49°-158°F (-40°-70°C)	-40°-158°F (-40°-70°C)	-40°-158°F (-40°-70°C)
umidity	5%-95% non-condensing	5%-95% non-condensing	5%-95% non-condensing
ir-Flow Direction	side-to-back	side-to-back	side-to-back
oise Level	Fanless	Fanless	Fanless
ertification and Compliance			
	FC	C, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	2
/arranty			

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







FortiSwitch 108F-FPOE



FortiSwitch 108F-POE



			FEBRURE	
	::. (Power Control		
	FORTISWITCH 124E	FORTISWITCH 124E-POE	FORTISWITCH 124E-FPOE	
lardware Specifications				
otal Network Interfaces	24x GE RJ45 and 4x GE SFP	24x GE RJ45 and 4x GE SFP	24x GE RJ45 and 4x GE SFP	
edicated Management 10/100 Port	0	0	0	
J-45 Serial Console Port	1	1	1	
orm Factor	1 RU Rack Mount	1 RU Rack Mount	1 RU Rack Mount	
ower over Ethernet (PoE) Ports	0	12 (802.3af/at)	24 (802.3af/at)	
oE Power Budget	0	185 W	370 W	
lean 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	
AC Address Storage	8 K	8 K	8 K	
letwork 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	
acket Buffers	512 KB	512 KB	512 KB	
RAM	256 MB DDR3	256 MB DDR3	256 MB DDR3	
LASH	32 MB	32 MB	32 MB	
CL	640	640	640	
panning Tree Instances	16	16	16	
imensions				
leight x Depth x Width (inches)	1.7 × 8.2 × 13	1.7 × 12.2 × 17.3	1.7 × 12.2 × 17.3	
leight x Depth x Width (mm)	44 × 209 × 330	44 × 309 × 440	44 × 309 × 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	100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz	
Power Supply	AC Built in	AC Built in	AC Built in	
edundant Power	<u> </u>	<u> </u>		
ower Consumption* (Average / Maximum)	15.83 W /17.79 W	202.78 W / 205.45 W	387.78 W / 390.45 W	
eat Dissipation	54 BTU/h	60.67 BTU/h	60.67 BTU/h	
perating Temperature	32°-113°F (0°-45°C)	32°-113°F (0°-45°C)	32°-113°F (0°-45°C)	
torage 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	
loise Level	Fanless	39.3 dBA	42.5 dBA	
ertification and Compliance				
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2		
Varranty				
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

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	FORTISWITCH 148E	FORTISWITCH 148E-POE	
lardware Specifications			
otal Network Interfaces	48x GE RJ45 and 4x GE SFP	48x GE RJ45 and 4x GE SFP	
Dedicated Management 10/100 Port	0	0	
J-45 Serial Console Port	1	1	
orm Factor	1 RU Rack Mount	1 RU Rack Mount	
ower over Ethernet (PoE) Ports	0	24 (802.3af/at)	
oE Power Budget	0	370 W	
Mean Time Between Failures	> 10 years	> 10 years	
ystem Specifications			
witching Capacity (Duplex)	104 Gbps	104 Gbps	
ackets Per Second (Duplex)	155 Mpps	155 Mpps	
AC 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	
acket Buffers	1.5 MB	1.5 MB	
DRAM	256 MB DDR3	256 MB DDR3	
LASH	64 MB	64 MB	
CL	640	640	
panning Tree Instances	16	16	
imensions			
leight x Depth x Width (inches)	1.73 × 12.2 × 17.3	1.73 × 13.7 × 17.3	
leight x Depth x Width (mm)	44 × 309 × 440	44 × 348 × 440	
Veight	8.6 lbs (3.9 kg)	11.5 lbs (5.2 kg)	
invironment			
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 / 22.137 W	389.742 W /393.109 W	
leat Dissipation	67.574 BTU/h	78.82 BTU/h	
perating Temperature	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)	
lumidity	10%–90% non-condensing	10%–90% non-condensing	
Air-Flow Direction	side-to-back	side-to-back	
loise Level	36.9 dBA	38.7 dBA	
Certification and Compliance			
	FCC, CE, RCM, VCCI	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	
Varranty			

^{*} 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







Limited lifetime** warranty on all models

FortiSwitch 148E-POE



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	FORTISWITCH 124F	FORTISWITCH 124F-POE	FORTISWITCH 124F-FPOE
Hardware Specifications			
Total Network Interfaces	24x GE RJ45 and 4× 10GE SFP+	24x GE RJ45 and 4×10GE SFP+	24x GE RJ45 and 4× 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
/LANs Supported	4 K	4 K	4 K
ink Aggregation Group Size	8	8	8
Total Link Aggregation Groups	16	16	16
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
ACL	768	768	768
Spanning Tree Instances	16	16	16
Dimensions			
Height x Depth x Width (inches)	1.73 × 9.06 × 12.99	1.73 × 10.24 × 17.32	1.73 × 10.24 × 17.32
Height x Depth x Width (mm)	44 × 230 × 330	44 × 260 × 440	44 × 260 × 440
Veight	4.48 lbs (2.03 kg)	7.85 lbs (3.56 kg)	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	102.982 BTU/h	118.327 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
Noise Level	Fanless	46.3 dBA	45.8 dBA
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









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	FORTISWITCH 148F	FORTISWITCH 148F-POE	FORTISWITCH 148F-FPOE
Hardware Specifications			
Total Network Interfaces	48x GE RJ45 and 4× 10GE SFP+	48x GE RJ45 and 4× 10GE SFP+	48x GE RJ45 and 4× 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	16	16	16
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
ACL	768	768	768
Spanning Tree Instances	16	16	16
Dimensions			
Height x Depth x Width (inches)	1.73 × 10.24 × 17.32	1.73 × 12.20 × 17.32	1.73 × 12.20 × 17.32
Height x Depth x Width (mm)	44 × 260 × 440	44 × 310 × 440	44 × 310 × 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
Noise Level	42.8 dBA	46.9 dBA	46.5 dBA
Certification and Compliance			
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	2
Warranty			

Fortinet Warranty

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FortiSwitch 148F FortiSwitch 148F-POE FortiSwitch 148F-FPOE

Limited lifetime** warranty on all models

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	FORTISWITCH 224D-FPOE	FORTISWITCH 224E	FORTISWITCH 224E-POE
lardware 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
Pedicated Management 10/100 Port	1	1	1
J-45 Serial Console Port	1	1	1
orm Factor	1 RU Rack Mount	1 RU Rack Mount	1 RU Rack Mount
ower over Ethernet (PoE) Ports	24 (802.3af/802.3at)	NA	12 (802.3af/802.3at)
PoE Power Budget	370 W	NA	180 W
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
ystem Specifications			
witching Capacity (Duplex)	56 Gbps	56 Gbps	56 Gbps
Packets Per Second (Duplex)	83 Mpps	83 Mpps	83 Mpps
лас Address Storage	16 K	16 K	16 K
letwork 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
LASH	128 MB	128 MB	128 MB
CL	512	512	512
Spanning Tree Instances	16	16	16
Route Entries (IPv4/IPv6)	64/32	64/32	64/32
lost Entries	1k	1k	1k
Dimensions	II.	IX.	TIX.
leight x Depth x Width (inches)	1.73 × 12.2 × 17.5	1.73 × 9 × 12.99	1.73 × 9 × 12.99
leight x Depth x Width (mm)	44 × 310 × 440	44 × 230 × 330	44 × 230 × 330
Veight	10.64 lbs (4.83 kg)	4.78 lbs (2.17 kg)	5.37 lbs (2.44 kg)
-	10.04 lb3 (4.05 kg)	4.70 lb3 (2.17 kg)	5.57 lb3 (2.44 kg)
invironment		400 0 401/ 40 50/00 1/	400 0401/40 50/001/
ower Required	100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz
ower 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
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)
łumidity 	10%–90% non-condensing	10%–90% non-condensing	10%–90% non-condensing
ir-Flow Direction	side-to-back	side-to-back	side-to-back
Noise Level	42.7 dBA	Fanless	30.6 dBA
Certification and Compliance			
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	2
Varranty			

^{*} 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



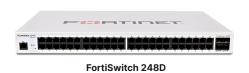
Limited lifetime** warranty on all models

FortiSwitch 224D-FPOE FortiSwitch 224E-POE FortiSwitch 224E



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	<u>*</u>		
	FORTISWITCH 248D	FORTISWITCH 248E-POE	FORTISWITCH 248E-FPOE
lardware Specifications			
otal 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
edicated Management 10/100 Port	1	1	1
J-45 Serial Console Port	1	1	1
orm Factor	1 RU Rack Mount	1 RU Rack Mount	1 RU Rack Mount
ower over Ethernet (PoE) Ports	_	24 (802.3af/802.3at)	48 (802.3af/802.3at)
oE Power Budget	N/A	370 W	740 W
lean Time Between Failures	> 10 years	> 10 years	> 10 years
ystem Specifications			
Switching Capacity (Duplex)	104 Gbps	104 Gbps	104 Gbps
ackets Per Second (Duplex)	155 Mpps	155 Mpps	155 Mpps
1AC Address Storage	16 K	16 K	16 K
etwork 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
RAM	512 MB DDR3	512 MB DDR3	512 MB DDR3
LASH	128 MB	128 MB	128 MB
CL	512	512	512
panning Tree Instances	16	16	16
oute Entries (IPv4/IPv6)	64/32	64/32	64/32
ost Entries	1k	1k	1k
imensions			
eight x Depth x Width (inches)	1.73 × 9.68 × 17.3	1.73 × 16.1 × 17.3	1.73 × 16.1 × 17.3
eight x Depth x Width (mm)	44 × 246 × 440	44 × 410 × 440	44 × 410 × 440
/eight	7.81 lbs (3.54 kg)	12.12 lbs (5.5 kg)	13.44 lbs (6.1 kg)
nvironment			
ower Required	100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz
ower Supply	AC built in	AC built in	AC built in
edundant Power	_	Optional FRPS-740	Optional FRPS-740
ower 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
perating Temperature	32°-122°F (0°-50°C)	32°-122°F (0°-50°C)	32°-122°F (0°-50°C)
torage Temperature	-4°-158°F (-20°-70°C)	-4°-158°F (-20°-70°C)	-4°-158°F (-20°-70°C)
umidity	10%–90% non-condensing	10%–90% non-condensing	10%–90% non-condensing
ir-Flow Direction	side-to-back	side-to-back	side-to-back
oise Level	32.3 dBA	34.2 dBA	44.7 dBA
Certification and Compliance			
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	

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

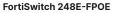






FortiSwitch 248E-POE

Limited lifetime** warranty on all models



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

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	FORTISWITCH-424E-FIBER	FORTISWITCH-M426E-FPOE
Hardware Specifications		
Total Network Interfaces	24x GE SFP and 4× 10GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	16x GE RJ45, 8× 2.5 GE RJ45 ports, 2× 5 GE RJ45, and 4× 10 G 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 (16× 802.3af/at, 8× 802.3af/at/bt Type 3 Class 6)
PoE Power Budget	N/A	420 W
Nean 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
/LANs Supported	4 K	4 K
ink Aggregation Group Size	8	8
otal 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
LASH	256 MB	256 MB
ACL	1.5k	1k
panning Tree Instances	16	16
oute Entries (IPv4/IPv6)	16k/8k	1000/500
lost Entries	16k	2k
Dimensions		
leight x Depth x Width (inches)	1.75 × 7.87 × 17.3	1.73 × 16.14 × 17.3
leight x Depth x Width (mm)	44 × 200 × 440	44 × 410 × 440
Veight	5.62 lbs (2.55 kg)	13.00 lbs (5.9 kg)
nvironment		
ower Required	100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz
ower Supply	AC built in	AC built in
ledundant Power	Redundant AC	Redundant AC
ower Consumption* (Average / Maximum)	36 W / 38 W	441 W / 442 W
leat Dissipation	132.5 BTU/h	132.734 BTU/h
Operating Temperature	32°-113°F (0°-45°C)	32°-122°F (0°-50°C)
itorage Temperature	-4°-158°F (-20°-70°C)	-4°-158°F (-20°-70°C)
lumidity	5%-95% non-condensing	5%–95% non-condensing
Air-Flow Direction	side-to-back	side-to-back
Noise Level	32.8 dBA	35 dBA
Certification and Compliance		

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







FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2

Limited lifetime** warranty on all models

FortiSwitch M426E-FPOE



Warranty Fortinet Warranty

 $[\]boldsymbol{*}$ POE models power consumption is similar to non-POE model if POE is not in use

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	FORTISWITCH 424E	FORTISWITCH 424E-POE	FORTISWITCH 424E-FPOE
Hardware Specifications			
Total Network Interfaces	24x GE RJ45 and 4×10 GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	24x GE RJ45 and 4×10 GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	24x GE RJ45 and 4×10 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
ACL	1k	1k	1k
Spanning Tree Instances	16	16	16
Route Entries (IPv4/IPv6)	1000/500	1000/500	1000/500
Host Entries	2k	2k	2k
Dimensions			
Height x Depth x Width (inches)	1.75 × 10.23 × 17.3	1.75 × 16.14 × 17.3	1.75 × 16.14 × 17.3
Height x Depth x Width (mm)	44 × 260 × 440	44 × 410 × 440	44 × 410 × 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, 50/60 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
Noise Level	32.3 dBA	31.8 dBA	30.9 dBA
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-POE FortiSwitch 424E FortiSwitch 424E-FPOE



	- CONTRACT		
	- 1000000000000000000000000000000000000	E ************************************	* *************************************
	FORTISWITCH 448E	FORTISWITCH 448E-POE	FORTISWITCH 448E-FPOE
Hardware Specifications			
Total Network Interfaces	48x GE RJ45 and 4× 10GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	48x GE RJ45 and 4× 10GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SFP	48x GE RJ45 and 4× 10GE SFP+ ports Note: SFP+ ports are compatible with 1 GE SF
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	4 MB	4 MB	4 MB
DRAM	1GB DDR4	1GB DDR4	1GB DDR4
FLASH	256 MB	256 MB	256 MB
ACL	1.5k	1.5k	1.5k
Spanning Tree Instances	16	16	16
Route Entries (IPv4/IPv6)	16k/8k	16k/8k	16k/8k
Host Entries	16k	16k	16k
Dimensions			
Height x Depth x Width (inches)	1.75 × 12.2 × 17.3	1.73 × 16.1 × 17.3	1.73 × 16.1 × 17.3
Height x Depth x Width (mm)	44 × 310 × 440	44 × 410 × 440	44 × 410 × 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, 50/60 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)	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
Noise Level	35.5 dBA	38.3 dBA	50.7 dBA
Certification and Compliance			
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	
Warranty			
Fortinet Warranty		Limited lifetime** warranty on all models	

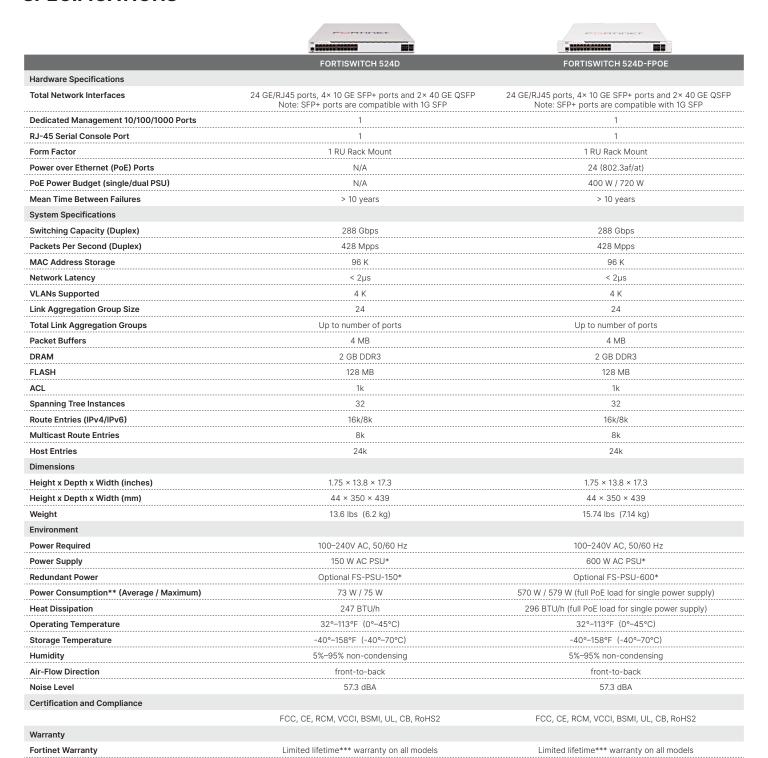
 $[\]boldsymbol{*}$ POE models power consumption is similar to non-POE model if POE is not in use







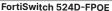
^{**} Fortinet Warranty Policy: http://www.fortinet.com/doc/legal/EULA.pdf



^{*}FS-524D, FS-524D-FPOE, FS-548D, 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





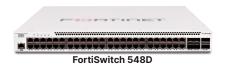




^{***} Fortinet Warranty Policy: http://www.fortinet.com/doc/legal/EULA.pdf

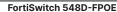
	PORT TO THE TOTAL	
	FORTISWITCH 548D	FORTISWITCH 548D-FPOE
ardware Specifications		
otal Network Interfaces	48x GE/RJ45 ports, 4× 10 GE SFP+ ports and 2× 40 GE QSFP Note: SFP+ ports are compatible with 1G SFP	48x GE/RJ45 ports, 4× 10 GE SFP+ ports and 2× 40 GE QS Note: SFP+ ports are compatible with 1G SFP
edicated Management 10/100/1000 Ports	1	1
J-45 Serial Console Port	1	1
orm Factor	1 RU Rack Mount	1 RU Rack Mount
ower over Ethernet (PoE) Ports	N/A	48 (802.3af/at)
E Power Budget (single/dual PSU)	N/A	750 W / 1440 W
ean Time Between Failures	> 10 years	> 10 years
stem Specifications		
vitching Capacity (Duplex)	336 Gbps	336 Gbps
ickets Per Second (Duplex)	512 Mpps	512 Mpps
AC Address Storage	96 K	96 K
etwork Latency	< 2µs	< 2µs
ANs Supported	4 K	4 K
nk Aggregation Group Size	48	48
otal Link Aggregation Groups	Up to number of ports	Up to number of ports
icket Buffers	4 MB	4 MB
RAM	2 GB DDR3	2 GB DDR3
ASH	128 MB	128 MB
CL	1k	1k
panning Tree Instances	32	32
oute Entries (IPv4/IPv6)	16k/8k	16k/8k
ulticast Route Entries	8k	8k
ost Entries	24k	24k
mensions		
eight x Depth x Width (inches)	1.75 × 13.8 × 17.3	1.75 × 13.8 × 17.3
eight x Depth x Width (mm)	44 × 350 × 439	44 × 350 × 439
eight	14.1 lbs (6.4 kg)	15.74 lbs (7.14 kg)
nvironment	, , , , , , , , , , , , , , , , , , ,	3,
ower Required	100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz
ower Supply	150 W AC PSU*	920 W AC PSU*
dundant Power	Optional FS-PSU-150*	Optional FS-PSU-920*
ower Consumption** (Average / Maximum)	74 W / 77 W	925 W / 961 W (full PoE load for single power supply)
eat Dissipation	252 BTU/h	318 BTU/h (full PoE load for single power supply)
perating Temperature	32°-113°F (0°-45°C)	32°-113°F (0°-45°C)
prage Temperature	-40°-158°F (-40°-70°C)	-40°-158°F (-40°-70°C)
ımidity	5%–95% non-condensing	5%–95% non-condensing
r-Flow Direction	front-to-back	front-to-back
Dise Level	57.3 dBA	57.3 dBA
ertification and Compliance	Sho dan	57.5 dB/Y
A anoual of and Compliance	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2

Limited lifetime*** warranty on all models *FS-524D, FS-524D-FPOE, 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





Limited lifetime*** warranty on all models





ORDER INFORMATION

PRODUCT	SKU	DESCRIPTION
FortiSwitch Models		
FortiSwitch 108E-POE	FS-108E-POE	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-FPOE	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 108F	FS-108F	Layer 2 FortiGate switch controller compatible switch with 8 x GE RJ45 ports, 2 x GE SFP, Fanless, 12V/3A power adapter of input voltage 100 – 240VAC, and PSE dual powered.
FortiSwitch 108F-POE	FS-108F-POE	Layer 2 FortiGate switch controller compatible PoE+ switch with 8 x GE RJ45 ports, 2 x GE SFP, Fanless with automatic Max 65W POE output limit.
FortiSwitch 108F-FPOE	FS-108F-FPOE	Layer 2 FortiGate switch controller compatible PoE+ switch with 8 x GE RJ45 ports, 2 x GE SFP, Fanless with automatic Max 130W POE output limit.
FortiSwitch 124E	FS-124E	Layer 2 FortiGate switch controller compatible switch with 24 GE RJ45 + 4 SFP ports. Fanless.
FortiSwitch 124E-POE	FS-124E-POE	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-POE	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-POE	FS-148E-POE	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. Fanless.
FortiSwitch 124F-POE	FS-124F-POE	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-FPOE	FS-124F-FPOE	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-POE	FS-148F-POE	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-FPOE	FS-148F-FPOE	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-FPOE	FS-224D-FPOE	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-POE	FS-224E-POE	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-POE	FS-248E-POE	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-FPOE	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 424E-Fiber	FS-424E-Fiber	Layer 2/3 FortiGate switch controller compatible switch with 24x GE SFP and 4× 10 GE SFP+ Uplinks
FortiSwitch M426E-FPOE	FS-M426E-FPOE	Layer 2/3 FortiGate switch controller compatible PoE+/802.3bt Type 3 switch with 16x GE RJ45, 8× 2.5 RJ45, 2× 5 GE RJ45 and 4× 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, 4× 10 GE SFP + ports.
FortiSwitch 424E-POE	FS-424E-POE	Layer 2/3 FortiGate switch controller compatible switch with 24 GE RJ45, 4×10 GE SFP + ports, 24 port PoE+ with maximum 283.5 W limit.
FortiSwitch 424E-FPOE	FS-424E-FPOE	Layer 2/3 FortiGate switch controller compatible switch with 24 GE RJ45, 4× 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, 4× 10 GE SFP + ports.
FortiSwitch 448E-POE	FS-448E-POE	Layer 2/3 FortiGate switch controller compatible switch with 48 GE RJ45, 4×10 GE SFP + ports, 48 port PoE+ with maximum 421 W limit.
FortiSwitch 448E-FPOE	FS-448E-FPOE	Layer 2/3 FortiGate switch controller compatible switch with 48 GE RJ45, 4×10 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, 4× 10 GE SFP+ and 2× 40 GE QSFP+
FortiSwitch 524D-FPOE	FS-524D-FPOE	Layer 2/3 FortiGate switch controller compatible PoE+ switch with 24 GE RJ45, 4× 10 GE SFP+, 2× 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, 4× 10 GE SFP+ and 2× 40 GE QSFP+ ports.
FortiSwitch 548D-FPOE	FS-548D-FPOE	Layer 2/3 FortiGate switch controller compatible PoE+ switch with 48 GE RJ45, 4× 10 GE SFP+ and 2× 40 GE QSFP+ ports, 48 port PoE with maximum 750 W limit.



ORDER INFORMATION

PRODUCT	SKU	DESCRIPTION
Licenses		
FortiLAN Cloud Management License*	FC-10-FSW00-628-02-DD	FortiSwitch 100 Series (none-Rugged) FortiLAN Cloud Management SKU Including Forticare 24×7. (Note, FortiCare only applicable when used with FortiLAN Cloud)
	FC-10-FSW10-628-02-DD	FortiSwitch 200-400 Series (incl all FSW Rugged Models) FortiLAN Cloud Management SKU Including Forticare 24×7. (Note, FortiCare only applicable when used with FortiLAN Cloud)
	FC-10-FSW20-628-02-DD	FortiSwitch 500-900 Series FortiLAN Cloud Management SKU Including Forticare 24×7. (Note, FortiCare only applicable when used with FortiLAN Cloud)
FortiSwitch Manager Subscription License	FC1-10-SWMVM-258-01-DD	Subscription license for 10 FortiSwitch Units managed by FortiSwitchManager VM. 24×7 FortiCare support (for FSWM VM) included.
	FC2-10-SWMVM-258-01-DD	Subscription license for 100 FortiSwitch Units managed by FortiSwitchManager VM. 24×7 FortiCare support (for FSWM VM) included.
	FC3-10-SWMVM-258-01-DD	Subscription license for 1000 FortiSwitch Units managed by FortiSwitchManager VM. 24×7 FortiCare support (for FSWM VM) included.
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.
Accessories		
External Redundant AC Power Supply	FRPS-740	Redundant AC power supply for up to 2 units: FS-224D-FPOE, FS-224E-POE, FS-248E-POE, FS-248E-FPOE.
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-920	AC power supply for FS-548D-FPOE.**

^{*} 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. Note that all PoE FortiSwitches are Alternative-A.



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^{**} Provides additional PoE capacity.