

### **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

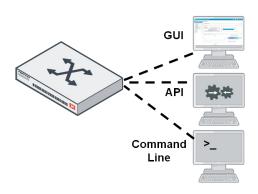
### **FortiGate**

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

# SD-Branch SD-Branch SD-Branch FortiLink FortiLink 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, FS-108E-POE, FS-108E-FPOE, FS-108F, FS-108F-POE, FS-108F-FPOE, FS-124E-POE, FS-124E-POE, FS-124E-POE, FS-124F-POE, FS-148E, FS-148E-POE, FS-124F-POE, FS-124F-POE, FS-148F-POE, FS-148F-POE, FS-148F-POE, FS-224D-FPOE, FS-224E-POE, FS-248E-POE, FS-248E-POE, FS-424E-FIBER, FS-M426E-FPOE, FS-424E-POE, FS-424E-POE, FS-424E-POE, FS-524D-FPOE, FS-524D-FPOE, FS-524D-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
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
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-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 802.1Q 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-T	
IEEE 802.3u 100Base-TX	
IEEE 802.3z 1000Base-SX/LX	
IEEE 802.3ab 1000Base-T	
IEEE 802.3ae 10 Gigabit Ethernet	
IEEE 802.3az Energy Efficient Ethernet	
IEEE 802.3bz Multi Gigabit Ethernet	
IEEE 802.3 CSMA/CD Access Method and Physical Layer Spec	ifications
Storm Control	
MAC, IP, Ethertype-based VLANs	
Virtual-Wire	
Split Port (QSFP+ breakout to 4×10G SFP+ or 4×1G SFP)	
Time-Domain Reflectcometry (TDR) Support	
LAG min/max bundle	
Rapid PVST interoperation	
Ingress Pause Metering	
Loop Guard	
Per-port storm control	
Priority-based Flow Control (802.1Qbb)	
IEEE 802.1ad QinQ	
VLAN Mapping	
IEEE 802.3ba, 802.3bj, and 802.3bm 40 and 100 Gigabit Ether	net
Auto topology	
Services	
IGMP proxy / querier	
MLD Snooping	
MLD proxy / querier	
IGMP Snooping	

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)
*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



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
RFC 5880: Bidirectional Forwarding Detection (BFD)  RFC 5881: Bidirectional Forwarding Detection (BFD) for IPv4 and IPv6 (Single Hop)  RFC 5882: Generic Application of Bidirectional Forwarding Detection (BFD)  BGP  RFC 1771: A Border Gateway Protocol 4 (BGP-4)  RFC 1965: Autonomous System Confederations for BGP  RFC 1997: BGP Communities Attribute  RFC 2545: Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing  RFC 2796: BGP Route Reflection - An Alternative to Full Mesh IBGP  RFC 2842: Capabilities Advertisement with BGP-4  RFC 2858: Multiprotocol Extensions for BGP-4  RFC 4271: BGP-4  RFC 6286: Autonomous-System-Wide Unique BGP Identifier for BGP-4
RFC 5881: Bidirectional Forwarding Detection (BFD) for IPv4 and IPv6 (Single Hop)  RFC 5882: Generic Application of Bidirectional Forwarding Detection (BFD)  BGP  RFC 1771: A Border Gateway Protocol 4 (BGP-4)  RFC 1965: Autonomous System Confederations for BGP  RFC 1997: BGP Communities Attribute  RFC 2545: Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing  RFC 2796: BGP Route Reflection - An Alternative to Full Mesh IBGP  RFC 2842: Capabilities Advertisement with BGP-4  RFC 2858: Multiprotocol Extensions for BGP-4  RFC 4271: BGP-4  RFC 6286: Autonomous-System-Wide Unique BGP Identifier for BGP-4
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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	

<sup>\*</sup> RFC and MIB supported by FortiSwitch Operating System. Check FortiSwitch Feature Matrix for model specific support.



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	FORTISWITCH 108E	FORTISWITCH 108E-POE	FORTISWITCH 108E-FPOE	
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 SFF	
Dedicated Management 10/100 Port	0	0	0	
RJ-45 Serial Console Port	1	1	1	
orm 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	
otal 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	
ACL	640	640	640	
Spanning Tree Instances	16	16	16	
Dimensions				
Height x Depth x Width (inches)	1.5 × 6.3 × 8.7	1.7 × 8.2 × 13	1.7 × 8.2 × 13	
leight x Depth x Width (mm)	38 × 160 × 220	44 × 209 × 330	44 × 209 × 330	
Veight	2.2 lbs (1 kg)	4.3 lbs (1.95 kg)	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>	<u> </u>	_	
Power Consumption* (Average / Maximum)	5.54 W / 6.26 W	70.19 W / 71.10 W	135.19 W / 136.10 W	
leat 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 (-40-70°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	
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			

 $<sup>\</sup>ensuremath{^{*}}\xspace\operatorname{POE}$  models power consumption is similar to non-POE model if POE is not in use



FortiSwitch 108E





FortiSwitch 108E-POE

FortiSwitch 108E-FPOE



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

EMBTIDET

# **SPECIFICATIONS**

	CHANGE AND	PORTOR: Indiana with	PERFORM AND ADDRESS OF THE PERFORMANCE OF THE PERFO
	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)
DE 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
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	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
ertification and Compliance			
	FC	CC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	2
/arranty			

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



**Fortinet Warranty** 





FortiSwitch 108F-FPOE



Limited lifetime\* warranty on all models

FortiSwitch 108F-POE



	POWERE.		
	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
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
ystem Specifications			
witching Capacity (Duplex)	56 Gbps	56 Gbps	56 Gbps
ackets Per Second (Duplex)	83 Mpps	83 Mpps	83 Mpps
IAC 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
PRAM	256 MB DDR3	256 MB DDR3	256 MB DDR3
LASH	32 MB	32 MB	32 MB
ICL	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)
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	_	_	_
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
Derating 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
	side to back	side to back	side to buok
Pertification and Compliance		ECC CE BOM VOOI BOMI III OB DALICO	
Varranty		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	
Fortinet Warranty		Limited lifetime** warranty on all models	

<sup>\*</sup> POE models power consumption is similar to non-POE model if POE is not in use \*\* Fortinet Warranty Policy: <a href="http://www.fortinet.com/doc/legal/EULA.pdf">http://www.fortinet.com/doc/legal/EULA.pdf</a>







FortiSwitch 124E FortiSwitch 124E-FPOE FortiSwitch 124E-POE



	* - ***********************************	
FORTISWITCH 148E	FORTISWITCH 148E-POE	
48x GE RJ45 and 4x GE SFP	48x GE RJ45 and 4x GE SFP	
0	0	
1	1	
1 RU Rack Mount	1 RU Rack Mount	
0	24 (802.3af/at)	
0	370 W	
> 10 years	> 10 years	
104 Gbps	104 Gbps	
155 Mpps	155 Mpps	
16 K	16 K	
3860 ns	3860 ns	
4 K	4 K	
8	8	
16	16	
1.5 MB	1.5 MB	
256 MB DDR3	256 MB DDR3	
64 MB	64 MB	
640	640	
16	16	
1.73 × 12.2 × 17.3	1.73 × 13.7 × 17.3	
44 × 309 × 440	44 × 348 × 440	
8.6 lbs (3.9 kg)	11.5 lbs (5.2 kg)	
100-240V AC, 50/60 Hz	100-240V AC, 50/60 Hz	
AC Built in	AC Built in	
No	No	
19.804 W / 22.137 W	389.742 W /393.109 W	
67.574 BTU/h	78.82 BTU/h	
32-113°F (0-45°C)	32-113°F (0-45°C)	
-4-158°F (-20-70°C)	-4-158°F (-20-70°C)	
10–90% non-condensing	10–90% non-condensing	
side-to-back	side-to-back	
FCC, CE, RCM, VCCI.	, BSMI, UL, CB, RoHS2	
. 33, 32, 1011, 1001,	, . , , ,	
	FORTISWITCH 148E  48x GE RJ45 and 4x GE SFP  0  1  1 RU Rack Mount  0  0  > 10 years  104 Gbps  155 Mpps  16 K  3860 ns  4 K  8  16  1.5 MB  256 MB DDR3  64 MB  640  16  1.73 × 12.2 × 17.3  44 × 309 × 440  8.6 lbs (3.9 kg)  100-240V AC, 50/60 Hz  AC Built in  No  19.804 W / 22.137 W  67.574 BTU/h  32-113°F (0-45°C)  -4-158°F (-20-70°C)  10-90% non-condensing	

<sup>\*</sup> POE models power consumption is similar to non-POE model if POE is not in use

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



FortiSwitch 148E



Limited lifetime\*\* warranty on all models

FortiSwitch 148E-POE



Fortinet Warranty

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			ECONOMICAL FORE
	FORTISWITCH 124F	FORTISWITCH 124F-POE	FORTISWITCH 124F-FPOE
Hardware Specifications	04.05045		0.4.05.045
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
ystem Specifications			
witching Capacity (Duplex)	128 Gbps	128 Gbps	128 Gbps
ackets Per Second (Duplex)	190 Mpps	190 Mpps	190 Mpps
MAC Address Storage	32 K	32 K	32 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	16	16	16
acket Buffers	2 MB	2 MB	2 MB
RAM	512 MB DDR3	512 MB DDR3	512 MB DDR3
LASH	64 MB	64 MB	64 MB
CL	768	768	768
panning Tree Instances	16	16	16
imensions			
leight x Depth x Width (inches)	1.73 × 9.06 × 12.99	1.73 × 10.24 × 17.32	1.73 × 10.24 × 17.32
leight 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)
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	No	No	No
ower Consumption* (Average / Maximum)	24.8 W / 26.3 W	235.9 W / 237.4 W	449.8 W / 451.3 W
leat Dissipation	89.683 BTU/h	102.982 BTU/h	118.327 BTU/h
perating Temperature	32-113°F (0-45°C)	32-113°F (0-45°C)	32-113°F (0-45°C)
torage Temperature	-4–158°F (-20–70°C)	-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
ir-Flow Direction	side-to-back	side-to-back	side-to-back
Pertification and Compliance			
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS	2
Varranty			
Fortinet Warranty	Limited lifetime** warranty on all models		

<sup>\*</sup> POE models power consumption is similar to non-POE model if POE is not in use \*\* Fortinet Warranty Policy: <a href="http://www.fortinet.com/doc/legal/EULA.pdf">http://www.fortinet.com/doc/legal/EULA.pdf</a>







FortiSwitch 124F FortiSwitch 124F-FPOE FortiSwitch 124F-POE



	FORTISWITCH 148F	FORTISWITCH 148F-POE	FORTISWITCH 148F-FPOE
Hardware Specifications	1001100111401	TOKTIOWITOTI 1401 TOE	10/(113//1101114011140111401
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
Fotal 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
<i>W</i> eight	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		F00 0F D0M V00I D0M III 0D 5 110	2
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	
Warranty		The second secon	
Fortinet Warranty		Limited lifetime** warranty on all models	

 $<sup>\</sup>ensuremath{^{*}}$  POE models power consumption is similar to non-POE model if POE is not in use

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



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

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	FORTISWITCH 224D-FPOE	FORTISWITCH 224E	FORTISWITCH 224E-POE
Hardware Specifications	04v 05 D 145 mosts and	0.411.05 D.145 a sate and	04: 05 D M5 =
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
Form 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)
PoE Power Budget	370 W	NA	180 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
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
Fotal 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
ACL	512	512	512
Spanning Tree Instances	16	16	16
Route Entries	64	64	64
Host Entries	1k	1k	1k
Dimensions			
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)
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	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)
lumidity	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			
	F	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	2
Varranty			

<sup>\*</sup> POE models power consumption is similar to non-POE model if POE is not in use

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



FortiSwitch 224D-FPOE FortiSwitch 224E

Limited lifetime\*\* warranty on all models



Fortinet Warranty

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	FEERTINET		
	FORTISWITCH 248D	FORTISWITCH 248E-POE	FORTISWITCH 248E-FPOE
ardware 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
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)	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			
witching Capacity (Duplex)	104 Gbps	104 Gbps	104 Gbps
ackets Per Second (Duplex)	155 Mpps	155 Mpps	155 Mpps
IAC 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
acket Buffers	1.5 MB	1.5 MB	1.5 MB
PRAM	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	64	64	64
ost Entries	1k	1k	1k
imensions			
leight x Depth x Width (inches)	1.73 × 9.68 × 17.3	1.73 × 16.1 × 17.3	1.73 × 16.1 × 17.3
leight x Depth x Width (mm)	44 × 246 × 440	44 × 410 × 440	44 × 410 × 440
Veight	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	<u> </u>	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
eat 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)
lumidity	10–90% non-condensing	10–90% non-condensing	10-90% non-condensing
	side-to-back	side-to-back	side-to-back
Air-Flow Direction	SIUE-IU-DACK		

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

Warranty

Fortinet Warranty

Limited lifetime\*\* warranty on all models

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







FortiSwitch 248E-FPOE



FortiSwitch 248E-POE



 $<sup>\</sup>ensuremath{^{*}}\xspace$  POE models power consumption is similar to non-POE model if POE is not in use

		To the second se
	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)
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
/LANs Supported	4 K	4 K
ink 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
ACL	1.5k	1k
Spanning Tree Instances	16	16
Route Entries	16k	1k
lost Entries	16k	2k
Dimensions		
Height 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		
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
leat 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 (-20-70°C)	-4-158°F (-20-70°C)
Humidity	5–95% non-condensing	5–95% non-condensing
Air-Flow Direction	side-to-back	side-to-back

<sup>\*</sup> POE models power consumption is similar to non-POE model if POE is not in use \*\* Fortinet Warranty Policy: <a href="http://www.fortinet.com/doc/legal/EULA.pdf">http://www.fortinet.com/doc/legal/EULA.pdf</a>



FortiSwitch 424E-Fiber



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

Limited lifetime\*\* warranty on all models

FortiSwitch M426E-FPOE



Warranty **Fortinet Warranty** 

	FERTIDET			
	E :	2	E	
	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	
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	
/LANs Supported	4 K	4 K	4 K	
ink Aggregation Group Size	8	8	8	
Fotal 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	
LASH	256 MB	256 MB	256 MB	
ACL	1k	1k	1k	
Spanning Tree Instances	16	16	16	
Route Entries	1k	1k	1k	
lost 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	
Veight	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	
leat Dissipation	76.04 BTU/h	102.64 BTU/h	117.2 BTU/h	
perating 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		
<i>N</i> arranty				
Fortinet Warranty		Limited lifetime** warranty on all models		

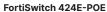
 $<sup>\</sup>boldsymbol{*}$  POE models power consumption is similar to non-POE model if POE is not in use







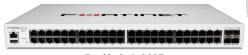




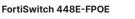


<sup>\*\*</sup> Fortinet Warranty Policy: http://www.fortinet.com/doc/legal/EULA.pdf

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	FORTISWITCH 448E	FORTISWITCH 448E-POE	FORTISWITCH 448E-FPOE
lardware 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 S
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	_	48 (802.3af/at)	48 (802.3af/at)
oE Power Budget	<del>-</del>	421 W	772 W
lean Time Between Failures	> 10 years	> 10 years	> 10 years
ystem Specifications			
witching Capacity (Duplex)	176 Gbps	176 Gbps	176 Gbps
ackets Per Second (Duplex)	262 Mpps	262 Mpps	262 Mpps
AC Address Storage	32 K	32 K	32 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
acket Buffers	2 MB	2 MB	2 MB
RAM	1GB DDR4	1GB DDR4	1GB DDR4
LASH	256 MB	256 MB	256 MB
CL	1.5k	1.5k	1.5k
panning Tree Instances	16	16	16
oute Entries	16k	16k	16k
ost Entries	16k	16k	16k
imensions			
eight x Depth x Width (inches)	1.75 × 12.2 × 17.3	1.73 × 16.1 × 17.3	1.73 × 16.1 × 17.3
leight x Depth x Width (mm)	44 × 310 × 440	44 × 410 × 440	44 × 410 × 440
/eight	9.17 lbs (4.16 kg)	13.8 lbs (6.26 kg)	14.04 lbs (6.37 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	Redundant AC	Redundant AC	Redundant AC
ower Consumption* Average / Maximum)	46.5 W / 47.81 W	440.12 W / 442.234 W	921.4 W / 923.6 W
leat Dissipation	163.032 BTU/h	163.066 BTU/h	163.1 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
ertification and Compliance			
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	
Varranty			
ortinet Warranty		Limited lifetime** warranty on all models	











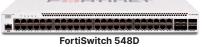
 $<sup>\</sup>boldsymbol{\ast}$  POE models power consumption is similar to non-POE model if POE is not in use

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

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	FORTISWITCH 524D	FORTISWITCH 524D-FPOE	FORTISWITCH 548D	FORTISWITCH 548D-FPOE
Hardware Specifications  Total Network Interfaces	24 GE/RJ45 ports, 4× 10 GE SFP+ ports and 2× 40 GE QSFP Note: SFP+ ports are compatible with 1G SFP	24 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 QSFP Note: SFP+ ports are compatible with 1G SFP	48x GE/RJ45 ports, 4×10 GE SFP+ ports and 2×40 GE QSFP Note: SFP+ ports are compatible 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 number of ports	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
ACL	1k	1k	1k	1k
Spanning Tree Instances	32	32	32	32
Route Entries	16k	16k	16k	16k
Host Entries	24k	24k	24k	24k
Dimensions				
Height x Depth x Width (inches)	1.75 × 13.8 × 17.3	1.75 × 13.8 × 17.3	1.75 × 13.8 × 17.3	1.75 × 13.8 × 17.3
Height x Depth x Width (mm)	44 × 350 × 439	44 × 350 × 439	44 × 350 × 439	44 × 350 × 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-920* (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 (-40-70°C)	-40-158°F (-40-70°C)	-40-158°F (-40-70°C)	-40-158°F (-40-70°C)
Humidity	5–95% non-condensing	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				
		FCC, CE, RCM, VCCI, E	SSMI, UL, CB, RoHS2	
Warranty				
Fortinet Warranty	Limited lifetime*** warranty on all models			

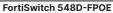
<sup>\*</sup>FS-524D, FS-524D-FPOE, FS-548D-FPOE Power Supply Units are Hot-Swappable. \*\* POE models power consumption is similar to non-POE model if POE is not in use \*\*\* Fortinet Warranty Policy: <a href="http://www.fortinet.com/doc/legal/EULA.pdf">http://www.fortinet.com/doc/legal/EULA.pdf</a>













# **ORDER INFORMATION**

PRODUCT	SKU	DESCRIPTION
FortiSwitch Models		
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-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.
FortiSwitch 124F-POE	FS-124F-POE	Layer 2 FortiGate switch controller compatible PoE+ switch with 24 GE RJ45 + 410G 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 + 410G 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 + 410G 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, $4\times$ 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, $4 \times 10$ 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+ ports.
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, $4 \times 10$ GE SFP+ and $2 \times 40$ 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 $24\times7$ . (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.**

<sup>\*</sup> 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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<sup>\*\*</sup> Provides additional PoE capacity.