



Fortinet FS-148F-POE Datasheet

Product Overview

- Fortinet FS-148F-POE is part of the FortiSwitch Secure Access family, delivering advanced security and network manageability.
- Ideal for branch offices, enterprise campuses, and distributed businesses focused on secure, unified access.
- Offers 48 GE RJ45 and 4 10GE SFP+ ports, 176 Gbps switching capacity, and up to 24 PoE ports to power devices directly.
- Integrated with FortiGate via FortiLink, the switch supports centralized management from a single interface and rich automation.
- Features high-density stacking, rapid deployment, and support for wire-speed switching and voice, data, and wireless traffic over a single network.
- Designed for evolving business needs, FS-148F-POE supports SD-Branch scenarios, enabling secure, scalable connectivity from desktop to data center.

Product Highlights

- Flexible Installation Options:** Designed for installation from desktops to wiring closets, adapting to different network environments easily.
- SD-Branch Deployment Ready:** Ideal for Software-Defined Branch (SD-Branch) scenarios, supporting modern enterprise networking requirements.
- Centralized Management:** Manage all network access and security from FortiGate's interface via FortiLink for unified control.
- Compact and Scalable:** Up to 48 ports in 1RU, supports stacking up to 300 switches, and delivers wire-speed switching performance.

Detailed Features



FS-148F-POE

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Component	Specification
Network Interfaces	48 × GE RJ45, 4 × 10GE SFP+
PoE Ports	24 (802.3af/at)
Switching Capacity	176 Gbps
Form Factor	1RU Rack Mount
Console Port	1 × RJ-45 Serial

Integrated Security Fabric

The FS-148F-POE connects seamlessly into the Fortinet Security Fabric, leveraging FortiLink technology for deep integration with FortiGate firewalls. This provides complete visibility and control across distributed networks, supporting automated security responses and unified management.

High-Density Gigabit Switching

The switch supports 48 GE RJ45 ports and 4 10GE SFP+ uplinks. With a 176 Gbps switching capacity and 260 Mpps packet forwarding, it handles high data volume effortlessly, supporting demanding enterprise workloads and core aggregation.

Efficient Power Management

With 24 PoE+ capable ports and a 370 W power budget, the FS-148F-POE powers access points, phones, and cameras directly. Intelligent PoE control, available through FortiGate, optimizes power delivery and simplifies deployment in branch or campus environments.

Advanced Stackability

FS-148F-POE supports stacking up to 300 units per FortiGate, enabling flexible scaling for extensive branch or campus deployments. Automated switch discovery, software upgrades, and stack-wide configuration streamline large-scale operations significantly.

Automated VLAN and Policy Control

Centralized VLAN setup and automated device detection simplify network segmentation. With policy-based controls and dynamic port profiles, businesses can enforce compliance and custom security measures across all connected users and devices.

Comprehensive Security Protocols

Robust access control includes 802.1X (port/MAC/MAB), DHCP snooping, device quarantine, and integration with FortiGate NAC for strong endpoint validation. FortiGuard IoT identification further protects against rogue or unmanaged devices in real time.

High Availability Redundancy

Supports link aggregation, split LAG, and HA cluster integration, enabling network resilience and uninterrupted access. Active-active redundancy between FortiGate and FortiSwitches minimizes downtime during failures or maintenance.

Rich Layer 3 Services

FS-148F-POE delivers advanced Layer 3 routing, including policy-based and virtual domains, through FortiGate integration. It brings firewall, AV, application control, and more to the switch level, empowering secure segmentation and optimized traffic.

Technical Specifications

Product Specifications

Feature	Value
Total Network Interfaces	48x GE RJ45 and 4x 10GE SFP+
Dedicated Management 10/100 Port	0
RJ-45 Serial Console Port	1
Form Factor	1 RU Rack Mount
Power over Ethernet (PoE) Ports	24 (802.3af/at)
PoE Power Budget	370 W
Mean Time Between Failures	> 10 years
Switching Capacity (Duplex)	176 Gbps
Packets Per Second (Duplex)	260 Mpps
MAC Address Storage	32 K
Network Latency	< 1μs
VLANs Supported	4 K



Feature	Value
Link Aggregation Group Size	8
Total Link Aggregation Groups	128
Packet Buffers	2 MB
DRAM	512 MB DDR3
FLASH	64 MB
Height x Depth x Width (inches)	1.73 x 12.20 x 17.32
Height x Depth x Width (mm)	44 x 310 x 440
Weight	10.32 lbs (4.68 kg)
Power Required	100–240V AC, 50-60 Hz
Power Supply	AC built in
Redundant Power	No
Power Consumption (Average / Maximum)	474.8 W / 476.3 W
Heat Dissipation	195.73 BTU/h
Operating Temperature	32–113°F (0–45°C)
Storage Temperature	-4–158°F (-20–70°C)
Humidity	10–90% non-condensing
Air-Flow Direction	side-to-back
Certification and Compliance	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2

Product Comparison

Feature	FS-148F-POE	C1-C4510R+E	C1-C4503E-S7L+48V+
Fixed Ports	48x GE RJ45 + 4x 10GE SFP+	Up to 384x GE (modular)	Up to 96x GE (modular)
PoE Support	24 ports (802.3af/at), 370 W budget	Varies by module	Varies by module
Switching Capacity	176 Gbps	Up to 960 Gbps	Up to 384 Gbps
Stacking	Up to 300 switches (with FortiGate model)	Supports Virtual Switch (VSS)	Supports Virtual Switch (VSS)
Layer 3 Routing	With FortiGate integration	Supported with SUP engine	Supported with SUP engine
Management	FortiGate single pane, GUI, CLI, API	CLI, Web, SNMP	CLI, Web, SNMP



Feature	FS-148F-POE	C1-C4510R+E	C1-C4503E-S7L+48V+
Redundant Power	No	Yes	Yes
Deployment Scenario	SD-Branch, campus access	Large enterprise/core	Medium-to-large enterprise/core

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- Power Cord- Mounting Kit- Quick Start Guide
Optional Accessories	<ul style="list-style-type: none">- SFP/SFP+ Transceiver Modules- PoE Injector- Cable Management Tray



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References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396241/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf