Fortinet
FS-124F-FPOE
Datasheet

Product Overview

- Fortinet's FortiSwitch Secure Access Family sets a high standard in secure, high-performance managed Ethernet switching with the FS-124F-FPOE model.

- Targeted for distributed branches, office spaces, and data centers, this switch suits IT partners, SMB integrators, and enterprise end users.

- The FS-124F-FPOE features 24 GE RJ45 ports and 4 10GE SFP+ uplinks, delivering 128 Gbps switching and low network latency under 1 microsecond.

- Distinct advantages include seamless FortiLink integration for centralized control and up to 300 switches stackable per FortiGate.

- It offers integrated security and single-pane-of-glass management, accessible from the familiar FortiGate interface, reducing IT workload.

- With its scalability and tight security coupling, this model is optimal for organizations seeking complete, efficient network and security convergence.

Product Highlights

- **Flexible Installation:** Designed for versatile deployments, the FS-124F-FPOE fits desktops, wiring closets, and remote offices without complex setup.

- **SD-Branch Ready:** Ideal for SD-Branch architectures, this switch streamlines distributed branch network operations and connectivity.

- **Centralized Control:** FortiLink enables management from FortiGate, ensuring unified security and network access administration.

- **High Scalability:** Stack up to 300 switches per FortiGate and reach up to 48 ports in a compact 1RU chassis with full wire-speed forwarding.

Detailed Features

FS-124F-FPOE

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Component	Specification
Switching Capacity	128 Gbps
Forwarding Rate	190 Mpps
Ports	24x GE RJ45, 4x 10GE SFP+
PoE Budget	370 W (24 ports)
Form Factor	1 RU Rack Mount

Comprehensive Centralized Management

FortiSwitch FS-124F-FPOE provides smooth auto-discovery and unified control for up to 300 switches under a FortiGate. Centralized configuration of VLANs, software upgrades, and PoE management optimizes network provisioning and reduces operational load, simplifying lifecycle management for IT administrators.

Advanced Network Configuration

The switch supports robust features including link aggregation, Spanning Tree protocols, IGMP snooping, and Layer 3 routing with FortiGate. Policy-based traffic segmentation, advanced VLAN settings, and dynamic port profiles improve adaptability to complex enterprise and edge architectures, ensuring versatile integration.

High Availability and Redundancy

With features such as FortiLink stacking, active-active high-availability clustering, and split LAG support, the FS-124F-FPOE offers resilient network topologies. Automated switch firmware authorization, dynamic detection, and load balancing protect against disruptions and enhance business continuity.

Security and User Visibility

Comprehensive 802.1X authentication options (port, MAC-based, MAB), DHCP snooping, advanced MAC filtering, host quarantine, and integrated device detection ensure strict access control. The model supports FortiGates NAC and FortiGuard IoT identification for detailed insight into network endpoints.

Dynamic PoE and Power Management

24 PoE+ ports with a 370W budget allow granular PoE control via FortiGate, adapting to changing power needs. Features such as port-based POE on/off and real-time monitoring simplify deployment for VoIP, surveillance, and wireless access points, improving operational efficiency.

Scalable Stackable Architecture

The FS-124F-FPOE enables scalable stacking of up to 300 units per FortiGate, with automated link management for large campus or branched environments. This flexibility simplifies expansion, supports distributed architectures, and reduces bottlenecks in growing business networks.

Integrated UTM and Security Fabric

Tight integration with Fortinet Security Fabric leverages FortiGates firewall, IPS, antivirus, application control, and threat detection directly on switch-managed domains. Policy control can extend from the gateway to edge access, delivering end-to-end protection.

Comprehensive Monitoring and Reporting

Syslog collection, network traffic collectors, and actionable switch-level recommendations within FortiGates console support strong monitoring, faster troubleshooting, and compliance tracking. Visibility into user, device, and traffic enhances the security posture of critical infrastructures.

Technical Specifications

Product Specifications

Feature	Value
Total Network Interfaces	24x 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)	128 Gbps
Packets Per Second (Duplex)	190 Mpps
MAC Address Storage	32 K
Network Latency	< 1μs

Feature	Value
VLANs Supported	4 K
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 10.24 x 12.99
Height x Depth x Width (mm)	44 x 260 x 330
Weight	8.42 lbs (3.82 kg)
Power Required	100–240V AC, 50–60 Hz
Power Supply	AC Built in
Redundant Power	—
Power Consumption (Average / Maximum)	449.8 W / 451.3 W
Heat Dissipation	1538.933 BTU/h
Operating Temperature	32–104°F (0–40°C)
Storage Temperature	-4–158°F (-40–70°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-124F-FPOE	JL708A	OS6350-P10
Switching Capacity	128 Gbps	104 Gbps	44 Gbps
Forwarding Rate	190 Mpps	77.3 Mpps	32.7 Mpps
Ports	24x GE RJ45, 4x 10GE SFP+	24x GE RJ45, 4x 10GE SFP+	8x GE RJ45, 2x GE SFP
PoE Support	24x PoE+ (370W)	24x PoE+ (370W)	8x PoE+ (120W)
Stacking Capability	Up to 300 switches per FortiGate	Up to 10 units	Up to 4 units

Feature	FS-124F-FPOE	JL708A	OS6350-P10
Management Integration	FortiGate FortiLink unified management	Aruba Central, Web GUI, CLI	OmniVista, CLI, WebView
Layer 3 Routing	With FortiGate integration	Static and OSPF	Static
Security Features	Access control, NAC, policy-based management	MACsec, 802.1X	802.1X, ACL
Form Factor	1 RU	1 RU	Desktop

Accessories

Category	Accessories
Included Accessories	- AC Power Cord - Rack Mount Kit - Quick Installation Guide
Optional Accessories	- SFP+ Transceiver Module - Spare Power Cord - Cable Management Bracket

Support & Warranty

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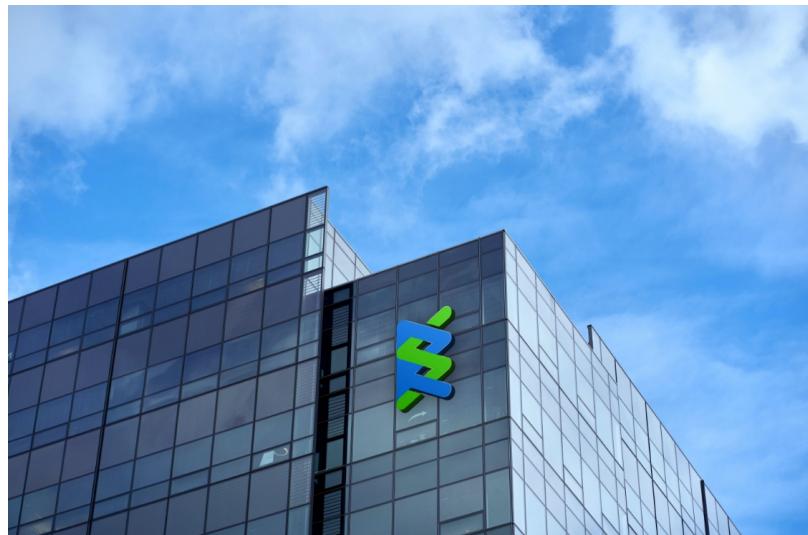
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References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396237/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf