Fortinet

FS-124E-FPOE

Datasheet

Product Overview

- Fortinet's FortiSwitch Secure Access Family is designed for businesses focused on secure and reliable network access.

- It caters to SD-Branch, campus, and enterprise users who require strong protection, seamless management, and versatile deployments.

- The FS-124E-FPOE features 24 GE RJ45 ports and 4 GE SFP uplinks, delivering wire-speed throughput, robust PoE capability, and low network latency.

- It stands out with its FortiLink integration, allowing single-pane centralized management and effortless scalability up to 300 switches per FortiGate.

- The FortiSwitch simplifies deployment with flexible management options via GUI, API, or CLI, offering comprehensive security, visibility, and control.

- The FS-124E-FPOE brings secure, simple, and efficient networking to businesses that need converged data, voice, and wireless access on one reliable platform.

Product Highlights

- **Flexible Deployment Options:** Designed for seamless integration from desktops to wiring closets, enabling easy network expansion and scalability.

- **Centralized Management with FortiLink:** Simplifies operations by allowing full control from the FortiGate interface, enhancing network-wide security.

- **Converged Network Traffic:** Handles voice, data, and wireless traffic across a single network, perfect for unified communications environments.

- **High Port Density and Stackability:** Up to 48 ports in 1 RU; stackable up to 300 switches per FortiGate, depending on model for large-scale growth.

Detailed Features

FS-124E-FPOE

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Component	Specification
Network Interfaces	24× GE RJ45, 4× GE SFP
PoE Ports	24 (802.3af/at)
PoE Power Budget	370 W
Form Factor	1 RU Rack Mount
Console Port	1 × RJ-45 Serial

Scalable FortiLink Integration

FS-124E-FPOE supports tight integration with Fortinet Security Fabric over FortiLink. It allows single-pane-of-glass management from FortiGate, auto discovery and centralized management for 8 to 300 switches, making multi-site scaling easy while maintaining visibility and unified policies.

Robust PoE and Stacking Capabilities

With 24 PoE ports (370 W budget), FS-124E-FPOE provides flexible powering for endpoints such as IP phones and wireless APs. FortiLink stacking allows automated inter-switch connections, active-active split LAG, and supports up to 300 switches per FortiGate model, enabling high availability and redundancy.

Advanced Security and Network Policy

802.1X authentication (port-based, MAC-based, and MAB), DHCP snooping, device detection, MAC black/white listing, policy control of users and devices, and intra-VLAN traffic blocking offer robust protection. Integrated FortiGate NAC extends control down to the access port.

Intelligent Network and VLAN Management

Centralized VLAN configuration, switch PoE control, dynamic port profiles, automated firmware provisioning, LAG support, and high availability options enable fast provisioning, secure policy enforcement, and simplified maintenance in diverse environments.

Comprehensive Traffic and QoS Handling

Wire-speed forwarding, store-and-forward mode, LLDP/MED, IGMP snooping, and advanced link aggregation ensure optimized, low-latency traffic at every node. Granular PoE and dynamic port provisioning support tailored user and device needs.

Layer 3 and UTM Feature Support

Policy-based routing, L3 services, virtual domains, firewall, IPS, antivirus, application control, and botnet protection (with FortiGate) ensure enterprise-grade security and routing functions directly integrated into Layer 2/3 switching.

High Availability and Robust Resilience

Supports FortiGate HA clusters, active-active LAG, automated detection, recommendations, and host quarantine improve uptime, facilitate redundancy, and increase overall operational reliability.

Automated Security Insights

Features include device and IoT detection, security rating integration, syslog collection, and switch controller traffic collector. These provide actionable insights and continuous compliance across the access switch layer.

Technical Specifications

Product Specifications

Feature	Value
Total Network Interfaces	24× GE RJ45 and 4× GE 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)	56 Gbps
Packets Per Second (Duplex)	83 Mpps
MAC Address Storage	8 K
Network Latency	4 µs
VLANs Supported	4 K

Feature	Value
Link Aggregation Group Size	8
Total Link Aggregation Groups	8
Packet Buffers	512 KB
DRAM	256 MB DDR3
FLASH	32 MB
Height × Depth × Width (inches)	1.7 × 12.2 × 17.3
Height × Depth × Width (mm)	44 × 309 × 440
Weight	11.2 lbs (5.03 kg)
Power Required	100–240V AC, 50–60 Hz
Power Supply	AC Built-in
Redundant Power	—
Power Consumption (Avg/Max)	387.78 W / 390.45 W
Heat Dissipation	60.67 BTU/h
Operating Temperature	32–104°F (0–40°C)
Storage Temperature	-40–158°F (-40–70°C)
Humidity	10–90% non-condensing

Product Comparison

Feature	FS-124E-FPOE	C1-C2960X-48FPD-L	OS6860-P48
Fixed Ports	24× GE RJ45, 4× GE SFP	48× GE RJ45, 2× 10G SFP+	48× RJ45 PoE, 4× 1G SFP
PoE Ports (Standard)	24 (802.3af/at)	24 (802.3af/at), 24 (802.3at)	48 (802.3af/at)
PoE Power Budget	370 W	740 W	740 W
Switching Capacity	56 Gbps	216 Gbps	176 Gbps
Forwarding Rate	83 Mpps	107.1 Mpps	130.9 Mpps
Stacking Support	Up to 300 switches per FortiGate	Yes, up to 8	Yes, up to 8
Management	Centralized via FortiGate (FortiLink), Web GUI, CLI	Web GUI, CLI, SNMP	Web GUI, CLI, SNMP

Feature	FS-124E-FPOE	C1-C2960X-48FPD-L	OS6860-P48
Advanced Security	802.1X, DHCP Snooping, FortiGuard integration	802.1X, Private VLAN, IP Source Guard	802.1X, MACsec, advanced policies
Redundant Power	No	Yes	Yes

Accessories

Category	Accessories
Included Accessories	- Power Cord - Rack Mount Kit - Quick Start Guide
Optional Accessories	- SFP Transceiver - Fiber Patch Cable - PoE Injector

Support & Warranty

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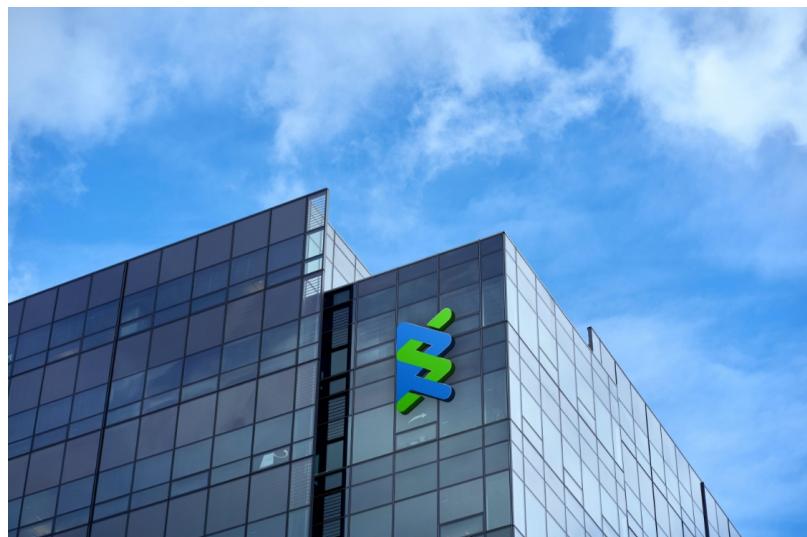
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References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396229/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf