

Fortinet FS-424E-POE Datasheet



Product Overview

- The Fortinet FortiSwitch Secure Access series delivers high security, strong performance, and simplified manageability for business networks.
- Ideal for businesses of all sizes needing reliable network protection, it serves well in SD-Branch, campus, and aggregation scenarios.
- Hardware highlights include 24 GE RJ45 ports, 4 × 10GE SFP+ uplinks, and up to 128 Gbps switching capacity for seamless connectivity.
- Advanced integration via FortiLink allows centralized control from the familiar FortiGate interface for better visibility.
- Managing users and devices across all connections becomes straightforward, reducing IT complexity and deployment time.
- The FS-424E-POE converges security and access on a single platform, making it a solid fit for desktop to data center deployments.

Product Highlights

- **Flexible Deployment Options:** Designed for both desktop environments and wiring closets, adapting to varied installation needs for different businesses.
- **SD-Branch Ready:** Optimized for SD-Branch deployments, supporting distributed sites that require secure, high-performance networking.
- **Centralized Security Management:** Simplifies management by integrating with FortiGate via FortiLink, ensuring visibility and control across the network.
- **Scalable Stacking Capability:** Stack up to 300 switches per FortiGate model, supporting rapid growth and high-density environments.

Detailed Features



FS-424E-POE

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Component	Specification
Network Interfaces	24 × GE RJ45, 4 × 10GE SFP+
Form Factor	1 RU Rack Mount
PoE Power Budget	250 W
Switching Capacity	128 Gbps
Ports	24 × 802.3af/at PoE



Integrated Fortinet Security Fabric

Tightly integrated with Fortinet Security Fabric via FortiLink, the FS-424E-POE allows centralized management from the FortiGate console, providing real-time visibility and control over all switches, users, and connected devices in the network. This unified approach simplifies administration and strengthens network security defenses.

Flexible Management and Configuration

Supports auto-discovery and centralized management of 8 to 300 switches, depending on FortiGate model. Features like FortiLink stacking, firmware upgrades, VLAN control, PoE management, and link aggregation streamline large-scale deployments while reducing manual configuration effort across distributed networks.

Comprehensive Layer 2/3 Services

Enables advanced network functions including Spanning Tree, LLDP/MED, IGMP snooping, and Layer 3 routing and services through FortiGate. Policy-based and virtual domain routing support sophisticated traffic management, maximizes resource utilization, and provides robust segmentation.

High Availability and Advanced Stacking

Supports active-active link aggregation, automated port profiling, and high-availability clustering. The switch can split and aggregate links for redundancy, helping minimize downtime and ensuring continuous service in demanding business environments.

802.1X Authentication & NAC Integration

Provides advanced 802.1X authentication (port-based, MAC-based, and MAB) as well as built-in FortiGate NAC for precise access control. Features like host quarantine and MAC black/whitelisting prevent unauthorized access and help meet compliance requirements.

Threat Detection and User Policy Enforcement

Automated device detection, syslog collection, DHCP snooping, and policy enforcement ensure granular control and monitoring, while MAC and user/device policy management enable effective isolation of threats and block intra-VLAN traffic if needed.

Dynamic IoT & Device Security

Integrated with FortiGuard IoT identification, the switch enables automated IoT device categorization and recommendations via Security Rating. Centralized updates and security intelligence help businesses stay ahead of emerging threats.

Unified Threat Management & Traffic Monitoring

Features firewall, application control, AV, and botnet filtering when managed with FortiGate. Real-time traffic collection by the switch controller and UTM services provide an added layer of security and network intelligence for advanced protection.

Technical Specifications

Product Specifications

Feature	Value
Product Model	FS-424E-POE
Total Network Interfaces	24 × GE RJ45 and 4 × 10GE SFP+ ports
SFP+ Port Compatibility	SFP+ ports compatible with 1GE SFP
Dedicated Management 10/100 Port	1
RJ-45 Serial Console Port	1
Form Factor	1 RU Rack Mount
PoE Ports	24 × 802.3af/at
PoE Power Budget	250 W
Mean Time Between Failures (MTBF)	> 10 years
Switching Capacity (Duplex)	128 Gbps
Packets Per Second (Duplex)	204 Mpps



Feature	Value
MAC Address Storage	16K
Network Latency	< 1 μ s
VLANs Supported	4K
Link Aggregation Group Size	8
Total Link Aggregation Groups	Up to number of ports
Packet Buffers	2 MB
DRAM	1 GB DDR4
FLASH	256 MB
Dimensions (inches)	1.75 × 16.14 × 17.3
Dimensions (millimeters)	44 × 410 × 440
Weight	11.57 lbs (5.25 kg)
Power Required	100–240V AC, 50/60 Hz
Power Supply	AC built-in
Redundant Power	Redundant AC
Power Consumption (Avg / Max)	281.3 W / 283.5 W
Heat Dissipation	102.64 BTU/h
Operating Temperature, Min	32°F (0°C)
Operating Temperature, Max	113°F (45°C)
Storage Temperature, Min	-4°F (-20°C)
Storage Temperature, Max	158°F (70°C)
Humidity	5–95% non-condensing
Certification & Compliance	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2

Product Comparison

Feature	FS-424E-POE	NVIDIA Mellanox MSN3700-VS2F	C9300-24T-E
Port Configuration	24 × GE RJ45, 4 × 10GE SFP+	32 × 100GbE QSFP28	24 × 1G RJ45, 4 × 1G SFP+
PoE Support	24 × 802.3af/at, 250 W	Not supported	Not supported
Switching Capacity	128 Gbps	6.4 Tbps	128 Gbps



Feature	FS-424E-POE	NVIDIA Mellanox MSN3700-VS2F	C9300-24T-E
Stacking Capability	Up to 300 switches per FortiGate	Up to 8 units	Up to 8 units
Management	FortiGate/FortiLink centralized	MLNX-OS, CLI, SNMP	CLI, GUI, Cisco DNA
Layer 3 Services	With FortiGate	Yes (advanced)	Yes
Redundant Power	Supported (Redundant AC)	Supported	Supported
Target Application	SD-Branch, campus, SME aggregation	Datacenter/spine/leaf	Enterprise campus/branch access

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Cable - Mounting Bracket - Quick Installation Guide
Optional Accessories	<ul style="list-style-type: none"> - SFP/SFP+ Transceiver - Redundant Power Supply - Console Cable



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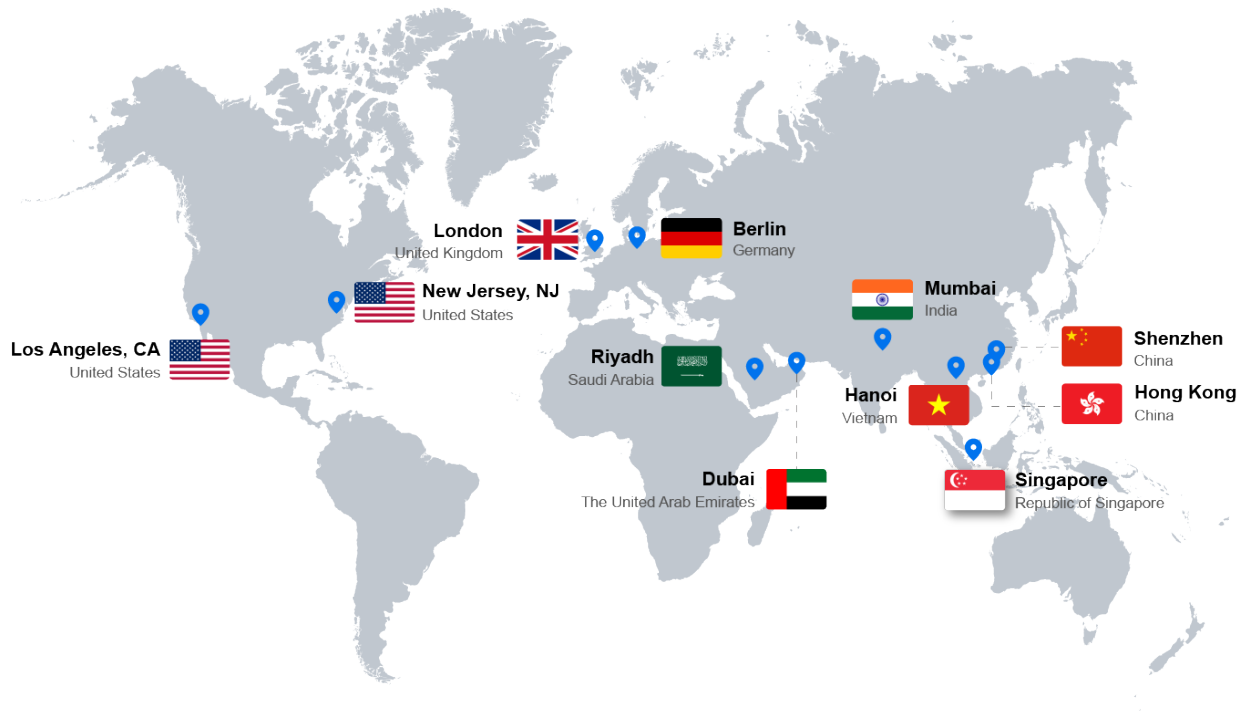
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References

[1] Fortinet. (2024). FortiSwitch Secure Access Series Datasheet. Retrieved from https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396247/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf