

# Fortinet FS-424E-FIBER Datasheet



## Product Overview

- The Fortinet FortiSwitch Secure Access Family is engineered to deliver high security, effective performance, and simplified management.
- It is ideal for businesses of all sizes requiring strong protection and visibility, including SD-Branch, campus, enterprises, and aggregation environments.
- Featuring 24x GE SFP and 4x 10GE SFP+ ports, 128 Gbps switching capacity, and support for up to 300 stacked switches per FortiGate.
- The FS-424E-FIBER offers deep integration with Fortinet Security Fabric via FortiLink and is easily managed directly from the FortiGate interface.
- Centralized management, automation, and a familiar single-pane-of-glass control deliver significant operational efficiency, reducing complexity.
- This switch is perfect for converged voice, data, and wireless networks, helping businesses create secure, scalable, and unified infrastructure.

## Product Highlights

- **Flexible Deployment:** Designed for seamless installation from desktops to wiring closets, offering versatile placement for different scenarios.
- **SD-Branch Optimization:** Ideal for SD-Branch environments, supporting a unified network framework for distributed enterprise branches.
- **Centralized Management:** Easily manage security and network access from the FortiGate console using FortiLink, reducing operational burden.
- **High Port Density & Scalability:** Up to 48 ports in a compact 1RU design with stacking for up to 300 switches per FortiGate model.

## Detailed Features



### FS-424E-FIBER

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Component	Specification
Switching Capacity	128 Gbps
Total Network Interfaces	24x GE SFP, 4x 10GE SFP+
Management Ports	1x 10/100/1000; 1x RJ-45 Serial Console
Form Factor	1 RU Rack Mount
Stacking Support	Up to 300 switches per FortiGate



## Scalable Stackable Architecture

The FS-424E-FIBER supports stacking of up to 300 switches per FortiGate through FortiLink integration. This scalable solution fits businesses that grow and need to expand network capacity easily while retaining centralized configuration and simplified network topology.

## Comprehensive Centralized Management

Manage all FortiSwitch devices from the familiar FortiGate interface via FortiLink, ensuring a single-pane-of-glass for control. Features include centralized VLAN setup, auto device discovery, firmware provisioning, and advanced link aggregation, which streamline network operations.

## Advanced Security and Access Control

The switch enables strong access security through 802.1X authentication (port-based and MAC-based), host quarantine, policy-based device control, and MAC blacklist/whitelist on FortiGate. Integrated NAC and dynamic port profiles help enforce granular user and device security policies.

## High Availability and Redundancy

Support for link aggregation, FortiLink stacking, split LAG, high availability clustering, and automated detection ensure continuous service. Redundant AC power design further boosts platform resilience for mission-critical environments.

## Layer 3 Routing and Network Services

With FortiGate, the FS-424E-FIBER extends Layer 3 routing, policy-based routing, and virtual domains. These capabilities optimize traffic flows, segment networks flexibly, and support scalable architectures from campus core to branch.

## Automated Provisioning & Insights

Auto discovery, real-time switch detection, automated recommendations, and policy control enhance deployment efficiency and operations. Syslog collection aids comprehensive monitoring for rapid troubleshooting.

## Integrated Security Fabric Workflow

Native support for FortiGuard IoT identification, security rating, and UTM features like firewall, AV, IPC, and botnet defense elevate network visibility and protection from edge to core.

## Flexible Configuration and Operation

Besides FortiLink, the device supports standalone configuration via onboard GUI, API, or CLI. This grants freedom for hybrid deployments and fits varying skill levels, ensuring broad compatibility within mixed-vendor or legacy networks.

# Technical Specifications

## Product Specifications

Feature	Value
Product Model	FortiSwitch 424E-FIBER
Total Network Interfaces	24x GE SFP and 4x 10GE SFP+ ports
SFP+ Port Compatibility	SFP+ ports are compatible with 1 GE SFP
Dedicated Management Ports	1x 10/100/1000
RJ-45 Serial Console Port	1
Form Factor	1 RU Rack Mount
Power over Ethernet (PoE) Ports	N/A
PoE Power Budget	N/A
Mean Time Between Failures	> 10 years
Switching Capacity	128 Gbps
Packets Per Second	204 Mpps
MAC Address Storage	32K
Network Latency	< 1µs



Feature	Value
VLANs Supported	4K
Link Aggregation Group Size	8
Total Link Aggregation Groups	Up to number of ports
Packet Buffers	4 MB
DRAM	1 GB DDR4
FLASH	256 MB
Dimensions (inches)	1.73 x 10.12 x 17.3
Dimensions (mm)	44 x 250 x 440
Weight	5.62 lbs (2.55 kg)
Power Required	100–240V AC, 50/60 Hz
Power Supply	AC built in
Redundant Power	Redundant AC
Power Consumption (Average / Maximum)	36 W / 38 W
Heat Dissipation	132.5 BTU/h
Operating Temperature	32–113°F (0–45°C)
Storage Temperature	-4–158°F (-20–70°C)
Humidity	5–95% non-condensing
Certification and Compliance	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2

## Product Comparison

Feature	FS-424E-FIBER	C9300-24S-A	C1000-48FP-4X-L
Total Network Interfaces	24x GE SFP, 4x 10GE SFP+	24x GE SFP, 4x 10GE SFP+	48x GE PoE+, 4x 10GE SFP+
Switching Capacity	128 Gbps	128 Gbps	176 Gbps
Stacking Support	Up to 300 per FortiGate	Up to 8 units	Not supported
PoE Support	N/A	N/A	Full PoE+ (740W)
Management	FortiGate single-pane-of-glass	Web/CLI, Cisco Digital Network Architecture	Web/CLI, Cisco DNA Center
Layer 3 Features	With FortiGate: Advanced Routing	Advanced IP Routing, Multicast	Layer 2 only



Feature	FS-424E-FIBER	C9300-24S-A	C1000-48FP-4X-L
Dimensions (WxDxH)	44 x 250 x 440 mm	44.5 x 420 x 343 mm	44 x 375 x 320 mm
Mean Time Between Failures	> 10 years	> 480,000 hours	Not disclosed
Redundant Power	Yes	Yes	No

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Mounting Brackets</li> <li>- Power Cable</li> <li>- Quick Start Guide</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP Transceiver</li> <li>- 10G SFP+ Module</li> <li>- Console Cable</li> </ul>



## Support & Warranty



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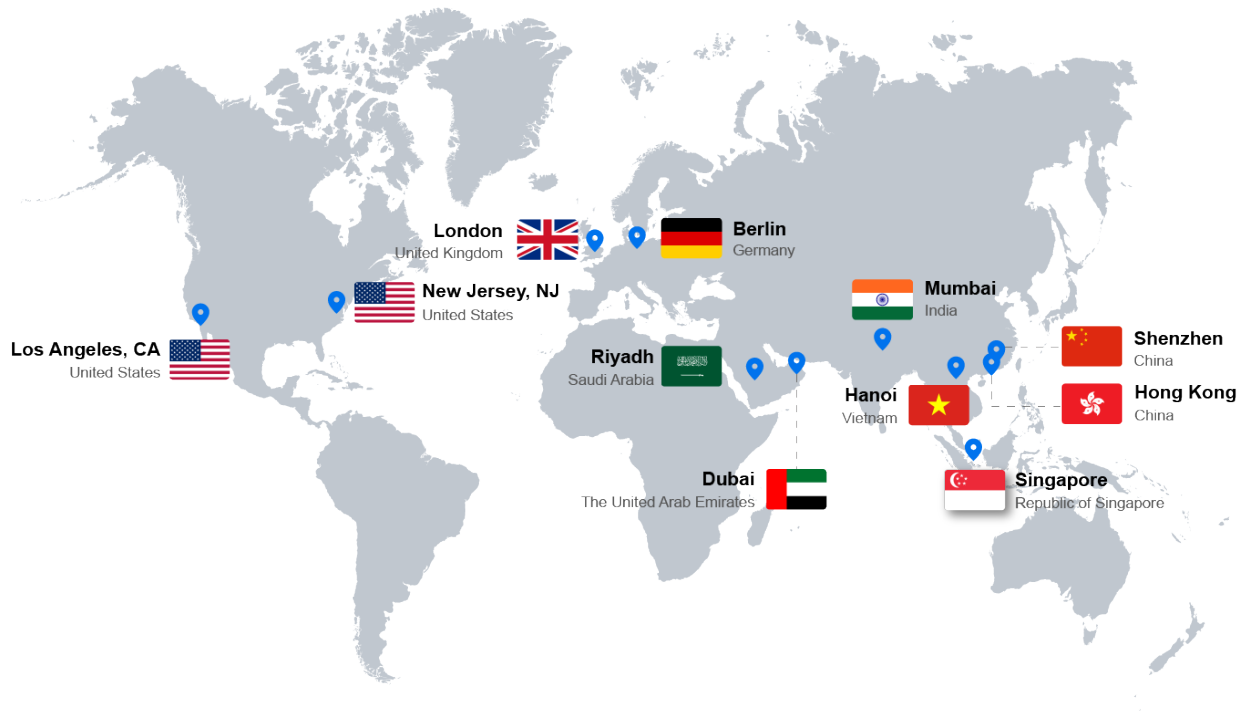
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## Global Footprint

Global Warehouses & Service Centers Across Continents.



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### Shenzhen Branch

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### UK Branch

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## References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from [https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396246/Security/Fortinet/Datasheet\\_FortiSwitch\\_Secure\\_Access\\_Series.pdf](https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396246/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf)