

Fortinet FS-124E

Datasheet

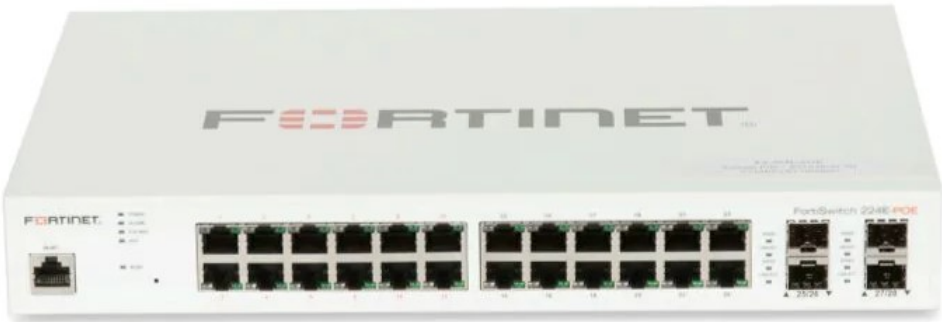
Product Overview

- Fortinet’s FortiSwitch Secure Access series positions the FS-124E as a high-assurance, business-grade network switch for secure connectivity.
- This model is suited for dynamic enterprise scenarios, including offices, branch campuses, and applications from desktops to data center aggregation.
- With 24 GE RJ45 and 4 GE SFP interfaces, it delivers a switching capacity of 56 Gbps, 8K MAC address support, and 83 Mpps packet throughput.
- FS-124E features seamless Security Fabric integration, single-pane management via FortiGate, and flexibility for both FortiLink and standalone deployments.
- Centralized security enforcement, device visibility, and high scalability make it an optimal choice for SD-Branch, converged access, and campus networks.
- Designed for global enterprises, the FS-124E helps unify network security, access, and performance, supporting smooth business operations at every point.

Product Highlights

- Versatile Deployment:** Compact 1RU design supports a range from desktop environments to wiring closets and branch offices, ensuring flexible installation.
- Integrated Security Management:** Centralized control with FortiGate and FortiLink provides unified policy management and full device visibility.
- Network Convergence:** Consolidates voice, data, and wireless traffic onto a single network, boosting operational efficiency and simplification.
- Agile Stackability:** Scalable architecture allows stacking up to 300 switches per FortiGate, supporting seamless network expansion and wire-speed switching.

Detailed Features



FS-124E

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Component	Specification
Network Interfaces	24x GE RJ45, 4x GE SFP
Switching Capacity	56 Gbps
MAC Address Storage	8 K
Form Factor	1 RU Rack Mount



Unified Switch Management

FS-124E enables direct integration with the Fortinet Security Fabric through FortiLink, centralizing switch discovery, stacking, VLAN configuration, and firmware upgrades via the FortiGate interface. This streamlined management facilitates fast deployment and reduces administrative burden.

Scalable Network Operation

With support for managing from 8 up to 300 switches (depending on FortiGate model), and advanced stacking features, organizations can flexibly expand their switching environment. FortiLink stacking ensures reliable inter-switch links and automated network scaling.

Robust Policy and VLAN Control

Centralized configuration empowers administrators to manage VLANs, link aggregation, and high-availability features across diverse access points. Dynamic port profiles and firmware provisioning grant swift, secure network reconfiguration.

Layer 3 and Virtual Domains

By leveraging FortiGate resources, the switch brings powerful L3 routing, policy-based routing, and virtual domain capabilities, enhancing segmentation and advanced routing for distributed or department-based environments.

Comprehensive Access Security

FS-124E integrates 802.1X authentication, MAC-based access, DHCP snooping, and syslog collection while enabling granular device and user policy enforcement. Threat containment is achieved through device detection, MAC black/white listing, and port-based quarantine.

Enhanced NAC and IoT Visibility

The switch supports FortiGates Network Access Control (NAC) function and advanced device identification through FortiGuard IoT. This enables automated security recommendations and real-time mitigation across all end devices.

High Availability & Redundancy

Features like HA, LAG, and active-active split LAG from FortiGate deliver resilient connectivity and optimal failover for mission-critical applications, maintaining network uptime in diverse situations.

Integrated UTM Security

Through the Security Fabric, the FS-124E can enforce firewall, antivirus, application control, and botnet prevention policies. Combined with switch controller traffic collection, this delivers integrated threat defense right at the access edge.

Technical Specifications

Product Specifications

Feature	Value
Total Network Interfaces	24x GE RJ45 and 4x 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	0
PoE Power Budget	0
Mean Time Between Failures	> 10 years
Switching Capacity (Duplex)	56 Gbps
Packets Per Second (Duplex)	83 Mpps
MAC Address Storage	8 K
Network Latency	4μs
VLANs Supported	4 K
Link Aggregation Group Size	8



Feature	Value
Total Link Aggregation Groups	8
Packet Buffers	512 KB
DRAM	256 MB DDR3
FLASH	32 MB
Height x Depth x Width (inches)	1.7 x 8.2 x 13
Height x Depth x Width (mm)	44 x 209 x 330
Power Required	100–240V AC, 50–60 Hz
Power Supply	AC Built in
Redundant Power	—
Power Consumption (Average)	15.83 W
Power Consumption (Maximum)	17.79 W
Heat Dissipation	54 BTU/h
Operating Temperature (Min)	32°F (0°C)
Operating Temperature (Max)	104°F (40°C)
Storage Temperature (Min)	-40°F (-40°C)
Storage Temperature (Max)	158°F (70°C)
Humidity	10–90% non-condensing

Product Comparison

Feature	FS-124E	C1-N7710-B26S2E	C1-N7009-B2S2E
Fixed Ports	24x GE RJ45, 4x GE SFP	26x SFP, 2x QSFP+	2x SFP, 2x SFP+
Switching Capacity	56 Gbps	2.56 Tbps	320 Gbps
PoE Support	No	Optional	Optional
Stacking Capability	Up to 300 per FortiGate	Module-based	Module-based
Layer 3 Routing	Yes (with FortiGate)	Yes	Yes
Redundant Power	No	Yes	Yes
Form Factor	1 RU Rack Mount	Chassis	Chassis
Management	FortiGate/FortiLink/Web	CLI/SNMP/Web	CLI/SNMP/Web



Accessories

Category	Accessories
Included Accessories	- Power Cord - Mounting Brackets - Quick Start Guide
Optional Accessories	- SFP Transceivers - Rack Mount Kit



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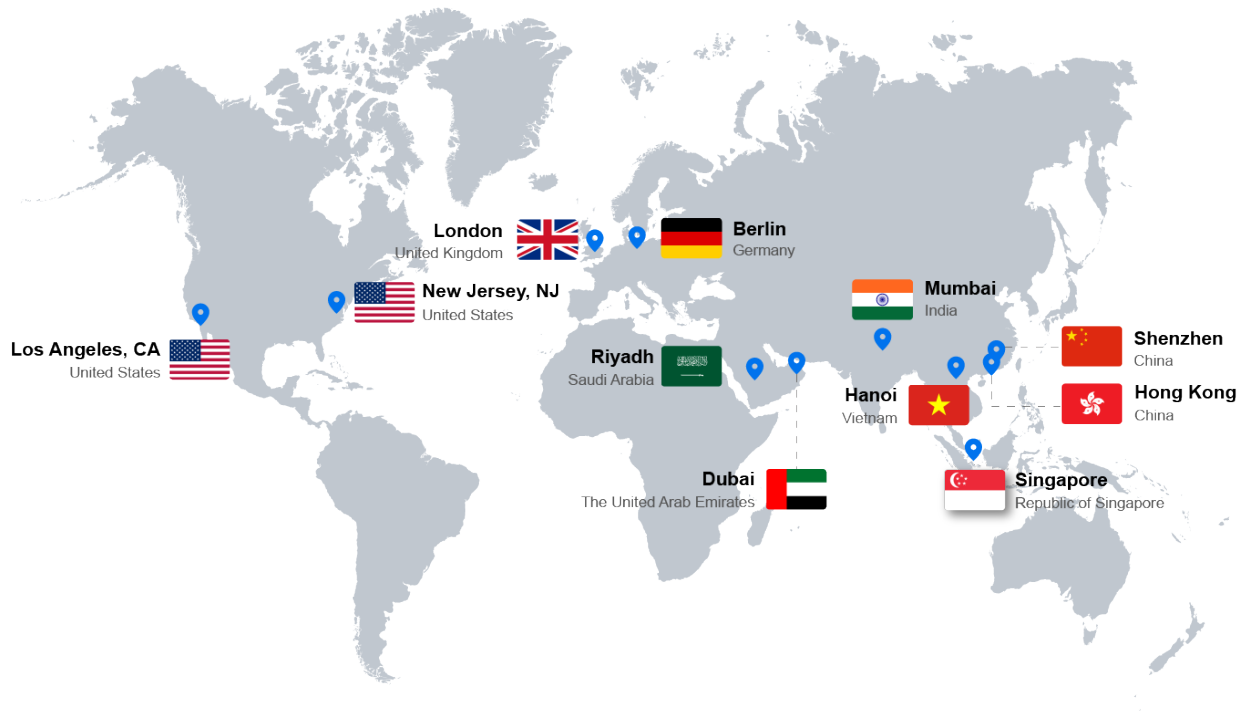
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References

[1] Fortinet. (2024). FortiSwitch Secure Access Series Datasheet. Retrieved from https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396222/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf