

Fortinet FS-224E

Datasheet

Product Overview

- Fortinet’s FortiSwitch Secure Access Family focuses on secure, high-performance network switching for modern enterprises.
- The FS-224E fits office, SD-Branch, and campus deployments. It serves businesses demanding advanced security and streamlined operations.
- It comes with 24 GE RJ45 ports and 4 GE SFP uplinks. The device boasts a 56 Gbps switching capacity, supporting up to 16K MAC addresses.
- Centralized management is achieved through seamless FortiGate interface integration, allowing quick configuration and monitoring.
- Unique features include SD-Branch readiness and Security Fabric integration, plus robust user and device control via FortiLink.
- The FS-224E unites switching, security, and scalability in one device, enhancing efficiency and protection for hybrid workplace networks.

Product Highlights

- Flexible Installation Scenarios:** Supports installations from desktop setups to wiring closets, offering deployment versatility for offices and campuses.
- SD-Branch Excellence:** Optimized for SD-Branch environments, enabling secure, simplified network expansion across distributed sites.
- Integrated Security Management:** Offers centralized security and user access control via FortiGate and FortiLink for easier network governance.
- Scalable and Compact Design:** Up to 48 ports in a 1 RU form factor, stackable up to 300 units depending on the FortiGate model for strong network growth.

Detailed Features



FS-224E

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Component	Specification
Ports	24x GE RJ45, 4x GE SFP
Switching Capacity	56 Gbps
Forwarding Rate	83 Mpps
Form Factor	1 RU Rack Mount
MAC Address Table	16 K



High-Density Network Interfaces

FS-224E is equipped with 24 GE RJ45 ports and 4 GE SFP uplinks, supporting comprehensive wired connectivity for branch and campus networks. The device delivers store-and-forward switching with exceptionally low latency, ensuring consistent data transfer for demanding enterprise applications.

Centralized FortiLink Integration

The switch supports tight integration with the Fortinet Security Fabric through FortiLink. This enables centralized management, policy enforcement, and seamless provisioning directly from the FortiGate interface. Administrators gain unified visibility and control across all network devices.

Dynamic VLAN and Device Management

Centralized VLAN configuration, dynamic port profile assignment, and automated device detection simplify network management. These features reduce manual interventions, improve provisioning efficiency, and minimize configuration errors in evolving environments.

Advanced Stacking and Redundancy

The FS-224E supports stacking of up to 300 switches per FortiGate (model dependent), and features such as link aggregation and active-active split LAG for FortiLink connections. This design delivers network resilience, advanced redundancy, and improved bandwidth utilization.

Comprehensive Security and Compliance

The FS-224E includes 802.1X-based port and MAC authentication, DHCP snooping, device detection, and MAC black/white listing. Security rating and automated recommendations also guard access points and seamlessly integrate network access control functions.

Full Compatibility and High Availability

FortiSwitch works in both FortiLink and standalone modes (GUI, API, CLI). Firmware can be centrally provisioned; it also supports FortiGate HA clusters, ensuring robust connectivity and high uptime for mission-critical networks.

Rich Layer 2 & 3 Services

Features include spanning tree, LLDP/MED, IGMP snooping, link aggregation, and support for Layer 3 routing and services when managed by a FortiGate. These versatile capabilities optimize multicast, traffic control, and network segmentation.

Integrated Security Features

Features include firewall, intrusion prevention (IPC), antivirus, application control, and botnet protection when paired with FortiGate. The platform also integrates FortiGuard IoT identity for up-to-date device profiling and threat mitigation.

Technical Specifications

Product Specifications

Feature	Value
Total Network Interfaces	24x GE RJ45 ports and 4x GE SFP ports
Dedicated Management 10/100 Port	1
RJ-45 Serial Console Port	1
Form Factor	1 RU Rack Mount
Power over Ethernet (PoE) Ports	NA
PoE Power Budget	NA
Mean Time Between Failures	> 10 years
Switching Capacity (Duplex)	56 Gbps
Packets Per Second (Duplex)	83 Mpps
MAC Address Storage	16 K
Network Latency	< 1μs
VLANs Supported	4 K



Feature	Value
Link Aggregation Group Size	8
Total Link Aggregation Groups	Up to number of ports
Packet Buffers	1.5 MB
DRAM	512 MB
FLASH	128 MB
Dimensions (Height x Depth x Width in inches)	1.73 x 9 x 12.99
Dimensions (Height x Depth x Width in mm)	44 x 230 x 330
Power Required	100–240V AC, 50–60 Hz
Power Supply	AC Built in
Redundant Power	Redundant AC
Power Consumption (Average / Maximum)	17.2 W / 17.3 W
Heat Dissipation	59.095 BTU/h
Operating Temperature	32–122°F (0–50°C)
Storage Temperature	-4–158°F (-20–70°C)
Humidity	10–90% non-condensing

Product Comparison

Feature	FS-224E	OS6450-P24	AM866C
Fixed Ports	24x GE RJ45, 4x GE SFP	24x GE RJ45 PoE, 2x 1G SFP	24x GE RJ45, 2x 1G SFP
Switching Capacity	56 Gbps	68 Gbps	56 Gbps
Forwarding Rate	83 Mpps	50.8 Mpps	41.7 Mpps
Stacking Capacity	Up to 300 units (via FortiGate)	Up to 8 switches	Not supported
PoE Support	NA	Yes (full PoE on all ports)	No
Management Mode	FortiLink, GUI, API, CLI	Web, CLI, SNMP	Web, CLI, SNMP
Redundant Power	Redundant AC	Yes (optional RPS)	Yes
Layer 3 Routing	With FortiGate	Yes	No



Feature	FS-224E	OS6450-P24	AM866C
Application Scenario	Branch, campus, SD-Branch	Enterprise edge, SMB, advanced PoE	Basic Layer 2 for SMB

Accessories

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



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References

[1] Fortinet. (2024). FortiSwitch Secure Access Series Datasheet. Retrieved from https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396223/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf