

Fortinet FS-224D-FPOE Datasheet



Product Overview

- The Fortinet FortiSwitch Secure Access Family is built for secure, high-performance, and manageable network access across business environments.
- Adaptable for businesses of all sizes, it fits SD-Branch, campus, desktop, and data center aggregation scenarios demanding robust security and reliability.
- Offering 24 GE RJ45 and 4 GE SFP ports, the FS-224D-FPOE achieves 56 Gbps switching capacity and provides a PoE budget of up to 370W while supporting wire-speed forwarding.
- Integration with Fortinet Security Fabric via FortiLink enables unique centralized management and complete network visibility in real time.
- With seamless deployment and single-pane-of-glass control from FortiGate interfaces, operational complexity and maintenance workloads are significantly reduced.
- This convergence of security and access makes the FS-224D-FPOE an optimal choice for secure, efficient, and scalable enterprise networking in evolving digital landscapes.

Product Highlights

- **Flexible Deployment Options:** Fits deployments from desktop setups to wiring closets, ideal for enterprise edge or campus locations.
- **SD-Branch Ready:** Purpose-built for SD-Branch, delivering secure, scalable access for distributed environments.
- **Centralized Network Management:** Manage security and access easily through the FortiGate interface using FortiLink integration.
- **High Scalability and Performance:** Stack up to 300 switches per FortiGate, support wire-speed switching, and flexible deployment through an intuitive GUI or CLI.

Detailed Features



FS-224D-FPOE

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Component	Specification
Switching Capacity	56 Gbps
GE RJ45 Ports	24
GE SFP Ports	4
PoE Ports	24 (802.3af/802.3at)
PoE Power Budget	370 W



Centralized Control with FortiLink

The FS-224D-FPOE is managed through FortiLink integration, streamlining switch configuration, firmware upgrades, and centralized VLAN setup directly from the FortiGate interface for cohesive policy management across the network.

Effortless Auto Discovery and Stacking

Supports auto discovery of up to 300 FortiSwitches per FortiGate (depending on model) and seamless stacking with automatic inter-switch link creation, improving scalability and network expansion for businesses.

Advanced High Availability and VLAN Features

Offers LAG support, active-active split LAG, dynamic port profiles, and high availability features ensuring link redundancy, optimal bandwidth usage, and dynamic adaptation to changes in port roles and traffic patterns.

Powerful Network Services Integration

Benefit from integrated L3 services via FortiGate, with policy-based routing, virtual domains, and automated device detection. This enables fine-grained network segmentation, security enforcement, and advanced traffic engineering.

Comprehensive Security and Device Control

802.1X authentication, MAC black/white listing (with FortiGate), DHCP snooping, device detection, and host quarantine capabilities offer in-depth access security, mitigating both internal and external threats at the port level.

Enhanced User and Device Visibility

With syslog collection, IGMP snooping, LLDP/MED, and network device detection, administrators gain real-time insights and can monitor, profile, or restrict connected devices for optimal asset oversight.

Integrated NAC and IoT Identification

Leverage integrated network access control (NAC) via FortiGate, supporting automated quarantine, advanced user policy enforcement, and FortiGuard IoT identification to boost threat response for smart environments.

Comprehensive UTM and Traffic Management

Leverage FortiGate-powered UTM with firewall, application control, antivirus, and botnet defense. Switch controller traffic collector and Security Rating recommendations ensure adherence to best security practices.

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	24 (802.3af/802.3at)
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	16 K
Network Latency	< 1μs
VLANs Supported	4 K
Link Aggregation Group Size	8



Feature	Value
Total Link Aggregation Groups	Up to number of ports
Packet Buffers	1.5 MB
DRAM	512 MB
FLASH	128 MB
Height x Depth x Width (inches)	1.73 x 12.2 x 17.5
Height x Depth x Width (mm)	44 x 310 x 440
Weight	10.64 lbs (4.83 kg)
Power Required	100–240V AC, 50–60 Hz
Power Supply	AC Built in
Redundant Power	Optional FRPS-740
Power Consumption (Average / Maximum)	380 W / 397 W
Heat Dissipation	85 BTU/h
Operating Temperature	32–122°F (0–50°C)
Storage Temperature	-4–158°F (-20–70°C)
Humidity	10–90% non-condensing
Certification and Compliance	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2

Product Comparison

Feature	FS-224D-FPOE	OS6860-P48	C9300L-48P-4G-E
Total Network Interfaces	24 x GE RJ45 + 4 x GE SFP	48 x 10/100/1000Base-T PoE + 2 x SFP+ + 2 x SFP	48 x 10/100/1000 PoE+ + 4 x 1G SFP
PoE Budget	370 W	370 W	740 W
Switching Capacity	56 Gbps	180 Gbps	104 Gbps
Stacking Capability	Up to 300 switches via FortiGate	Up to 8 units	Up to 8 units
Management Interface	FortiGate (FortiLink)/GUI/ API/CLI	Web/CLI/SNMP/RMON	Web/CLI/SNMP/RMON
L3 Routing Support	Via FortiGate	Static, RIP, OSPF, Policy	Static, RIP, OSPF, EIGRP
Redundant Power	Optional FRPS-740	Supported	Supported



Feature	FS-224D-FPOE	OS6860-P48	C9300L-48P-4G-E
High Availability	Active-Active Split LAG	VRRP/Link Backup	StackPower/StackWise
Operating Temperature	0–50°C	0–50°C	0–45°C

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- Optional FRPS-740 Redundant Power Supply- Console Cable



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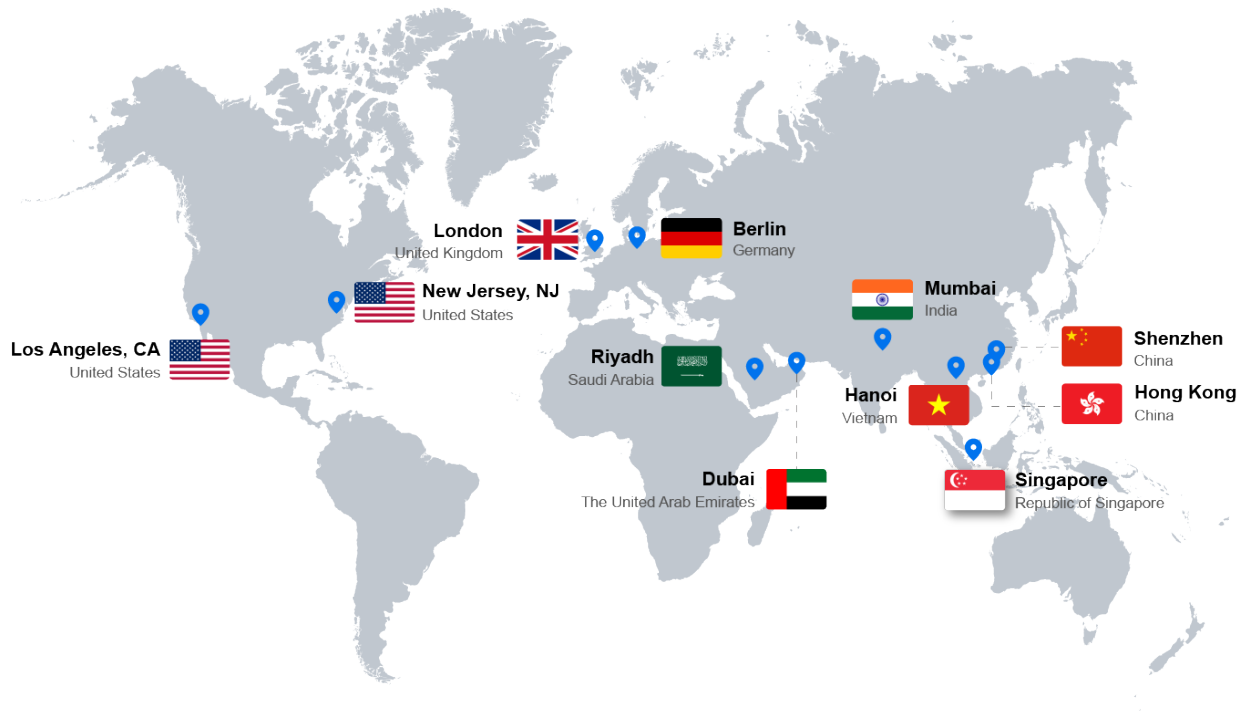
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Global Footprint

Global Warehouses & Service Centers Across Continents.



Global Branches

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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/25396242/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf