

Fortinet FS-108E-FPOE Datasheet



Product Overview

- The Fortinet FortiSwitch Secure Access series positions itself as a solution for modern network security and management.
- FortiSwitch FS-108E-FPOE is designed for businesses seeking secure, high-performance, and easy-to-manage switches in evolving digital environments.
- With 8 GE RJ45 PoE ports and 2 GE SFP, it delivers a switching capacity of 20 Gbps and a PoE power budget of 130 W, ensuring reliable performance.
- Centralized management via FortiGate using FortiLink streamlines control, while integration supports voice, data, and wireless across one network.
- Quick deployments and scalability make FortiSwitch suitable for SD-Branch, campuses, and distributed offices that prioritize network access and threat prevention.
- The FS-108E-FPOE helps organizations unify security and connectivity, providing flexible, comprehensive networking for dynamic business needs.

Product Highlights

- **Flexible Installation Options:** Supports deployments from desktops to wiring closets, making it adaptable for various installation scenarios.
- **SD-Branch Ready:** Optimized for SD-Branch solutions for organizations shifting to distributed or hybrid IT environments.
- **Centralized FortiLink Management:** Enables unified policy-based controls and visibility from FortiGate, simplifying network management.
- **High Scalability and Performance:** Stackable up to 300 switches, supports wire-speed switching and converged networks for diverse traffic types.

Detailed Features



FS-108E-FPOE

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| Component | Specification |
|--------------------------|------------------------------|
| Total Network Interfaces | 8x GE RJ45, 2x GE SFP |
| PoE Ports | 8 (802.3af/at), 130 W budget |
| Switching Capacity | 20 Gbps |
| Form Factor | 1 RU Rack Mount |
| Console Port | 1 x RJ-45 Serial |



Centralized Switch Management

FortiSwitch FS-108E-FPOE can be managed directly through the FortiGate interface using FortiLink, providing a unified and intuitive management experience. This integration offers full visibility of users and devices across the network and enables centralized firmware upgrades, VLAN assignments, and link aggregation for simplified operations and streamlined deployments.

Seamless FortiLink Stacking

Supports automatic discovery and stacking of up to 300 switches per FortiGate, allowing businesses to scale networks efficiently. With FortiLink, users can implement inter-switch links, configure dynamic port profiles, and optimize availability with split LAG configurations for redundancy and load balancing, improving uptime and resilience in business-critical applications.

Advanced PoE and Power Management

8 PoE ports (802.3af/at) provide a 130W power budget, efficiently supporting devices like IP cameras, phones, and wireless APs. Advanced control features allow centralized PoE allocation and load management, reducing unnecessary energy usage while ensuring all connected devices receive reliable power based on real-time operational demands.

Robust Network Performance

Delivers 20 Gbps switching capacity and ultra-low latency (4µs), supporting wire-speed switching and store-and-forward mode for stable and reliable performance. The FS-108E-FPOE is ideal for high-density environments, ensuring smooth voice, video, and data transmission, and supporting future service expansion.

Comprehensive Security Framework

Integrated with Fortinet Security Fabric, it supports 802.1X authentication (port or MAC-based), DHCP snooping, device detection, and MAC access controls. FortiGate policy integration enables detailed control over users and devices, intra-VLAN blocking, automated threat detection, and host quarantine, significantly enhancing enterprise network security.

Automated Network Operations

Automates device detection, switch provisioning, and security recommendations. Automated firmware deployment and high availability protocols ensure smooth updates and operational continuity. Dynamic configuration options (GUI, API, CLI) make the FS-108E-FPOE suitable for both managed and standalone scenarios.

Flexible Deployment Modes

While deeply integrated with FortiGate for unified management, the FS-108E-FPOE can also operate independently using its onboard GUI, command line, or API. This flexibility allows deployment in diverse environments and multi-vendor scenarios, accommodating evolving business requirements and architectures.

High Compliance and Reliability

Compliant with international standards (FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2) and featuring a >10-year MTBF, FS-108E-FPOE ensures secure, stable, and long-lasting network operation. Its robust construction and compact rackmount design further expand its use cases to a wide variety of applications and industries.

Technical Specifications

Product Specifications

| Feature | Value |
|----------------------------------|--------------------------|
| Total Network Interfaces | 8x GE RJ45 and 2x 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 | 8 (802.3af/at) |
| PoE Power Budget | 130 W |
| Mean Time Between Failures | > 10 years |
| Switching Capacity (Duplex) | 20 Gbps |
| Packets Per Second (Duplex) | 30 Mpps |



| Feature | Value |
|---------------------------------------|---|
| MAC Address Storage | 8 K |
| Network Latency | 4µs |
| VLANs Supported | 4 K |
| Link Aggregation Group Size | 8 |
| 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 |
| Weight | 4.5 lbs (2.04 kg) |
| Power Required | 100–240V AC, 50–60 Hz |
| Power Supply | AC Built in |
| Redundant Power | — |
| Power Consumption (Average / Maximum) | 135.19 W / 136.10 W |
| Heat Dissipation | 17.7 BTU/h |
| Operating Temperature | 32–104°F (0–40°C) |
| Storage Temperature | -40–158°F (-40–70°C) |
| Humidity | 10–90% non-condensing |
| Certification and Compliance | FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2 |

Product Comparison

| Feature | FS-108E-FPOE | C9200L-24T-4X-A | C1-WS3850-12XS-S |
|--------------------------|--------------------------------|--------------------------|-------------------------|
| Total Network Interfaces | 8x GE RJ45, 2x GE SFP | 24x GE RJ45, 4x 10G SFP+ | 12x 10G SFP+ |
| PoE Support | 8 ports (802.3af/at), 130W | PoE on selected models | PoE+ on selected models |
| Switching Capacity | 20 Gbps | 56 Gbps | 320 Gbps |
| Stacking Support | Stack up to 300 with FortiGate | Up to 8 switches | Up to 9 switches |



| Feature | FS-108E-FPOE | C9200L-24T-4X-A | C1-WS3850-12XS-S |
|-------------------|---------------------------------------|----------------------------|--------------------------|
| Management | FortiLink, central via FortiGate | Web UI, CLI, SNMP | Web UI, CLI, SNMP |
| Layer 3 Routing | Via FortiGate integration | Supported | Supported |
| Security Features | 802.1X, DHCP Snooping, Policy Control | 802.1X, ACL, DHCP Snooping | MACsec, 802.1X, TrustSec |
| Mounting | 1 RU, rack mount | 1 RU, rack mount | 1 RU, rack mount |

Accessories

| Category | Accessories |
|----------------------|---|
| Included Accessories | <ul style="list-style-type: none"> - AC Power Cord - Rack Mount Brackets - Quick Start Guide |
| Optional Accessories | <ul style="list-style-type: none"> - SFP Transceiver - PoE Injector - Console Cable |



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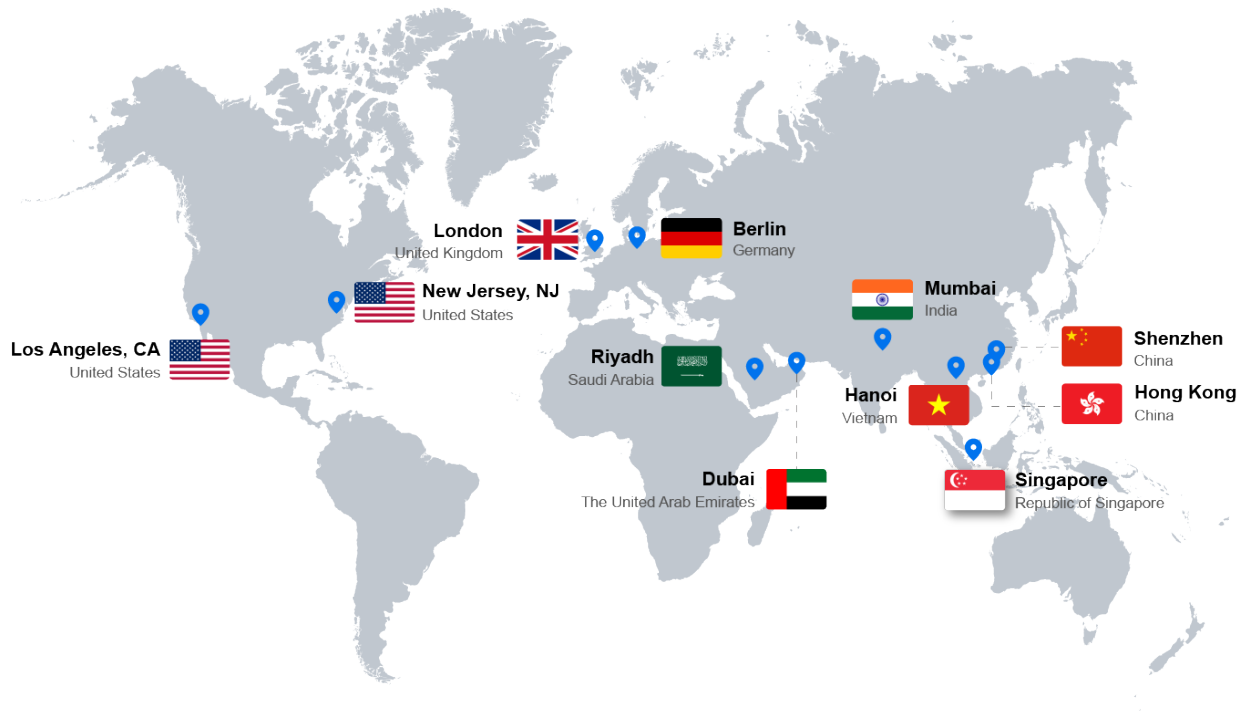
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References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396232/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf