# Fortinet

# FS-108E-POE

## Datasheet

## Product Overview

- The Fortinet FortiSwitch Secure Access Series is engineered for businesses needing reliable security and high-performance network switching.

- It is ideal for segmented deployments like SD-Branch, education campuses, or retail environments where end-to-end security and manageability are critical.

- Key hardware highlights include 8 managed Gigabit ports, integrated PoE+ capabilities with a 65W budget, and a switching capacity of 20 Gbps.

- Differentiated features such as seamless FortiLink integration, policy-based routing, and full support for converged voice, data, and wireless traffic set it apart.

- Easy centralized management from the FortiGate interface simplifies network operations and provides single-pane-of-glass visibility and control.

- Overall, FS-108E-POE streamlines secure, scalable, and simplified networking for modern digital workplaces, supporting both desktop and data center aggregation.

## Product Highlights

- **Flexible Installation Options:** Designed for deployments from desktops to wiring closets, giving organizations freedom in planning their network layout.

- **SD-Branch Ready:** Optimized for SD-Branch environments, delivering secure, scalable, and easily managed branch connectivity.

- **Centralized Management with FortiLink:** Enables comprehensive policy control and security visibility when managed through FortiGate with FortiLink integration.

- **Stackable and Scalable:** Supports up to 48 ports in a single unit and stackable up to 300 switches per FortiGate, fitting future business growth.

## Detailed Features



### FS-108E-POE

| Component | Specification |
|---|---|
| Switching Ports | 4 x 10/100/1000 (PoE+) + 2 x Gigabit SFP + 4 x 10/100/1000 |
| PoE Budget | 65 W |
| Switching Capacity | 20 Gbps |
| Forwarding Rate | 14.88 Mpps |
| Form Factor | Rack-mountable 1U |

## Integrated Security Fabric

The FS-108E-POE fully integrates into the Fortinet Security Fabric via FortiLink, enabling unified management and policy enforcement. This brings enterprise-class security and network access control to the edge, ensuring consistent threat protection and simplified configuration across both wired and wireless networks.

## High-Density PoE+ Support

Providing up to 65 W PoE+ power over four Gigabit RJ-45 ports, the switch enables seamless deployment of IP phones, surveillance cameras, and wireless APs without separate power supplies, supporting energy-efficient LAN design and reducing total installation costs.

## Flexible Stacking and Scalability

The FS-108E-POE can stack up to 300 switches (dependent on FortiGate model), which simplifies expansion and management in growing organizations. FortiLink Stacking and auto inter-switch link creation streamline topology changes and increase the reliability of campus and branch networks.

## Comprehensive Network Management

Supports robust management protocols (SNMP1/2/3, Telnet, SSH, HTTP/HTTPS, TFTP, CLI) and offers centralized configuration, dynamic VLAN assignment, and rapid software upgrades. Remote and automated control reduce operational workloads while enabling consistent policy deployment.

## Advanced Layer 2 and Layer 3 Services

FS-108E-POE delivers rich L2/L3 features such as IGMP snooping, LLDP/MED, multiple Spanning Tree protocols, policy-based routing, and dynamic link aggregation. These functions optimize traffic flows, minimize downtime, and allow for flexible network segmentation and redundancy.

## Enterprise-Grade Access Control

Built-in 802.1X authentication (user, MAC, MAB), syslog collection, DHCP and IP address snooping, and automated device detection protect network access. With comprehensive black/whitelisting and host quarantine, businesses enforce strict access and isolate threats at the edge layer.

## Resilient High Availability

The switch supports advanced redundancy with High Availability clusters, LAG for FortiLink, and Active-Active Split LAG between FortiGate and FortiSwitches. Firmware provisioning and dynamic port profiles maximize uptime for critical business operations.

## UTM and IoT Security Integration

Through FortiGate, the FS-108E-POE links to FortiGuard UTM features (firewall, AV, botnet, app control), provides IoT detection, and integrates with security compliance checks. This ensures end-to-end network visibility, threat prevention, and safety for connected devices.

# Technical Specifications

## Product Specifications

| Feature | Value |
|---|---|
| Product Model | FS-108E-POE |
| Device Type | Switch - 8 ports - managed |
| Enclosure Type | Rack-mountable 1U |
| Subtype | Gigabit Ethernet |
| Ports | 4 x 10/100/1000 (PoE+) + 2 x Gigabit SFP + 4 x 10/100/1000 |
| Power Over Ethernet (PoE) | PoE+ |
| PoE Budget | 65 W |
| Switching Capacity | 20 Gbps |
| Packet Forwarding Rate | 14.88 Mpps |
| Latency | 4 µs |
| VLANs Supported | 4000 |

| Feature | Value |
|---------|-------|
| Link Aggregation Groups | 8 |
| Total Link Aggregation Groups | 8 |
| MAC Address Table Size | 8K entries |
| Jumbo Frame Support | Yes |
| Remote Management Protocol | SNMP 1, Telnet, SNMP 3, SNMP 2c, HTTP, HTTPS, TFTP, SSH, CLI |
| Authentication Method | RADIUS |
| Features | Flow control, auto-negotiation, port mirroring, SNTP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Jumbo Frames support, STP Root Guard, fanless, Link Aggregation Control Protocol (LACP), DHCP client, Management Information Base (MIB), 512KB packet buffer, 802.1x authentication, Storm Control, Back Pressure Support, Link Aggregation, Management Information Base (MIB) II, Guest VLAN, STP BPDU Guard, IPv6 management, VLAN Tagging, FortiLink Mode, MAC Access Bypass (MAB), Telnet server |
| Compliant Standards | IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.3af, IEEE 802.3x, IEEE 802.1w, IEEE 802.1x, IEEE 802.3ae, IEEE 802.1s, IEEE 802.1ab (LLDP), IEEE 802.3at, IEEE 802.1AX |
| RAM | 256 MB DDR3 SDRAM |
| Flash Memory | 32 MB |
| Status Indicators | Power, alarm, link/activity |
| Interfaces | 4 x 1000Base-T RJ-45 PoE+ |
| Power Device | Internal power supply |
| Voltage Required | AC 120/230 V (50 - 60 Hz) |
| Power Consumption Operational | 5.19 Watt |
| MTBF | >10 years |
| UL, VCCI, BSMI, CB, FCC, RoHS2, RCM | Compliant Standards |
| Dimensions (Width) | 13 in |
| Dimensions (Depth) | 8.2 in |
| Dimensions (Height) | 1.7 in |
| Min Operating Temperature | 32 °F |
| Max Operating Temperature | 104 °F |

| Feature | Value |
|---|---|
| Humidity Range Operating | 10 - 90% (non-condensing) |
| Min Storage Temperature | -40 °F |
| Max Storage Temperature | 158 °F |

## Product Comparison

| Feature | FS-108E-POE | OS6450-P48 | AL:OS6450-24X |
|---|---|---|---|
| Switching Ports | 4 x 10/100/1000 (PoE+) + 2 x Gigabit SFP + 4 x 10/100/1000 | 48 x 10/100/1000 (PoE+) + 2 x SFP + 2 x SFP+ | 24 x 10/100/1000 + 2 x SFP + 2 x SFP+ |
| PoE Budget | 65 W | 370 W | 180 W |
| Switching Capacity | 20 Gbps | 176 Gbps | 88 Gbps |
| Packet Forwarding Rate | 14.88 Mpps | 132 Mpps | 65 Mpps |
| Max MAC Address Table | 8K entries | 16K entries | 8K entries |
| Stacking Support | Up to 300 switches via FortiGate | Up to 8 units | Up to 8 units |
| Management Features | SNMP, CLI, HTTP/HTTPS, FortiLink | SNMP, Web, CLI | SNMP, Web, CLI |
| Advanced Security Integration | Fortinet Security Fabric, UTM Ready | Role-Based Access, Storm Control | Role-Based Access, Storm Control |
| Form Factor | Rack-mountable 1U | 1U Rackmount | 1U Rackmount |

## Accessories

| Category | Accessories |
|---|---|
| Included Accessories | - Power Cable<br>- Mounting Brackets<br>- Quick Installation Guide |
| Optional Accessories | - SFP Transceiver Modules<br>- PoE Injector<br>- Console Cable |

## Support & Warranty

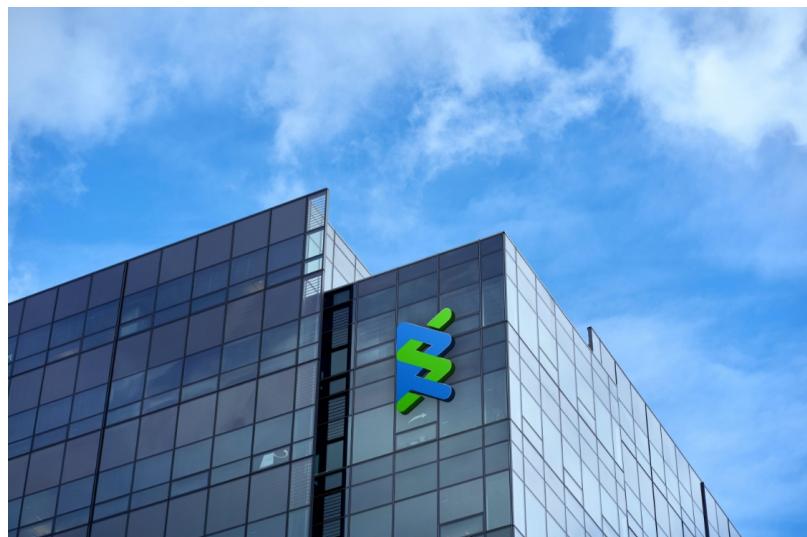| 24/7 Online Service | 3-Year Premium Warranty | Professional Technical Support | 100% Low Price Guarantee | 100% Quality Assurance | 100% Money Back Guarantee |

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## Global Footprint

Global Warehouses & Service Centers Across Continents.



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# References

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