



# Fortinet FS-248E-FPOE Datasheet



## Product Overview

- The Fortinet FortiSwitch Secure Access Family positions the FS-248E-FPOE as a secure, high-performance switch for enterprise networks.
- Designed for businesses seeking strong security and reliable connectivity, it fits offices, SD-Branch sites, and campus networks.
- Key specs include 48 x 10/100/1000 (PoE+) ports, 4 Gigabit SFP uplinks, and wire-speed switching within a 1RU rackmount form factor.
- FortiSwitch delivers seamless Fortinet Security Fabric integration, managed centrally via the FortiGate interface for unified security control.
- Its differentiated features include robust PoE+, stackability up to 300 switches per FortiGate, and full visibility for every connected device.
- Ideal for converged access, FS-248E-FPOE helps businesses securely deliver data, voice, and wireless services on a single platform.

## Product Highlights

- **Flexible Deployment:** Designed for everything from desktop setups to wiring closet installations, supporting versatile network topologies.
- **SD-Branch Optimization:** Purpose-built for secure and efficient SD-Branch deployments, meeting enterprise and distributed site demand.
- **Centralized Management:** Control security and network access through FortiGate interfaces with FortiLink for streamlined operations.
- **High-Density, Scalable Design:** Up to 48 ports in 1RU, stackable with up to 300 switches, and supports wire-speed and reliable switching.

## Detailed Features



FS-248E-FPOE

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Component	Specification
Switch Ports	48 x 10/100/1000 PoE+
Uplink Ports	4 x Gigabit SFP
Form Factor	1RU Rack-Mountable
Stacking Capability	Up to 300 units per FortiGate
PoE+ Support	Yes



## Centralized Management and Configuration

FS-248E-FPOE supports auto-discovery and centralized management for up to 300 switches when integrated with FortiGate via FortiLink. Administrators can upgrade software, configure VLANs, manage PoE, and set up link aggregation from a single dashboard, streamlining network operations for large and distributed environments.

## Advanced Link Aggregation and Stacking

The FS-248E-FPOE allows automatic inter-switch links and FortiLink stacking, enabling seamless expansion and high-speed uplinks. It offers up to 26 link aggregation groups and supports advanced technologies such as LAG, MLAG, and active-active split LAGs, ensuring improved redundancy and bandwidth utilization across enterprise deployments.

## Comprehensive Layer 3 Switching and Routing

Supporting Layer 3 capabilities via FortiGate including RIP, OSPFv2, VRRP, and policy-based routing the switch delivers intelligent traffic steering, route optimization, and seamless virtual domain integration. This enables robust network segmentation and enhances network scalability without compromising performance.

## Powerful Security Integration and Access Control

The switch features port-based and MAC-based 802.1X authentication, integrated FortiGate NAC, DHCP snooping, MAC black/white listing, and host quarantine. Combined with syslog collection and device detection, it simplifies secure onboarding and gives granular control over network devices in enterprise environments.

## High Availability and Resilience

With features like high availability, dynamic port profiles, automated detection, and firmware provision upon authorization, FS-248E-FPOE ensures network uptime, easy maintenance, and rapid disaster recovery within mission-critical settings.

## Scalable Automated Operations

Provision firmware, apply dynamic port profiles, and receive automated FortiSwitch recommendations in the security rating system. These capabilities simplify lifecycle management, reduce administrative burden, and ensure consistent policy enforcement across growing deployments.

## Integrated UTM and Threat Protection

Via FortiGate integration, the switch enables Unified Threat Management with firewall, intrusion prevention, antivirus, application and botnet control at the access layer. This supports policy-based control and zero-trust segmentation from the edge.

## In-depth Visibility and Security Rating

The FS-248E-FPOE provides enhanced visibility into network devices, collects switch controller traffic, and participates in Fortinet's Security Rating framework helping organizations proactively improve cyber posture and maintain compliance with evolving standards.

## Technical Specifications

### Product Specifications

Feature	Value
Subtype	Gigabit Ethernet
Ports	48 x 10/100/1000 (PoE+) + 4 x Gigabit SFP
Power Over Ethernet (PoE)	PoE+
PoE Budget	740 W
Capacity: Virtual interfaces (VLANs)	4000
Capacity: Link aggregation groups	26
Capacity: MSTP instances	15
Capacity: Routing entries	64
Capacity: Host entries	4000



Feature	Value
Capacity: ACL entries	512
Jumbo Frame Support	Yes
Authentication Method	RADIUS
MAC Address Table Size	16000 entries
Routing Protocol	RIP-2, VRRP, OSPFv2
Manufacturer	Fortinet
Nominal Voltage	AC 120/230 V
Frequency Required	50 - 60 Hz
Power Consumption Operational	47.7 Watt
Power Device Type	internal power supply
Form Factor	rack-mountable
Type	Switch
Advanced Switching	Layer 3
Packet Buffer	1.5MB
Bidirectional Forwarding Detection	Yes
LACP	Supported
MIB	Supported
MLAG	Supported
MSTP support	Yes
Private VLAN	Supported
RSTP support	Yes
Root Guard	Yes
SNTP support	Yes
STP support	Yes
Storm Control	Yes
DHCP relay	Yes
Time Domain Reflectometry (TDR)	Yes
Type of Service (ToS)	Yes
Auto-negotiation	Yes
Flow control	Yes



Feature	Value
Port mirroring	Yes
sFlow	Yes
Static routing	Yes
Tagged VLAN	Yes
DHCP snooping	Yes
DiffServ Code Point (DSCP)	Yes
Dynamic ARP Inspection (DAI)	Yes
IGMP snooping	Yes
IP-MAC binding	Yes
LLDP support	Yes
Compliant Standards	IEEE 802.1AX, IEEE 802.1D, IEEE 802.3ad (LACP), IEEE 802.3af, IEEE 802.3at, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z, IEEE 802.1Q, IEEE 802.1ab (LLDP), IEEE 802.1p, IEEE 802.1s, IEEE 802.1w, IEEE 802.1x, IEEE 802.3, IEEE 802.3ab
Ports Qty	52
Manageable	Yes
Remote Management Protocol	CLI, HTTP, HTTPS, SNMP 1, SNMP 2c, SNMP 3, SSH, TFTP, Telnet
Installed Size	128 MB
MTBF	>10 sec
Height (Rack Units)	1 m
Color Category	white
MTBF (years)	>10 years
Min Storage Temperature	-4 °F
Max Storage Temperature	158 °F
Min Operating Temperature	32 °F
Max Operating Temperature	122 °F
Humidity Range Operating	10 - 90%
Brand	Fortinet
Product Line	Fortinet FortiSwitch
Model	248E-FPOE
Packaged Quantity	1



Feature	Value
Width	17.3 in
Depth	16.1 in
Height	1.7 in
Weight	13.45 lbs
Ports Type 1	10/100/1000 (PoE+)
Ports Qty 1	48
Ports (2nd) Type	Gigabit SFP
Ports (2nd) Qty	4
Performance: Latency	1 $\mu$ s
Performance: Switching Capacity	104 Gbps
Performance: Packet Transfer Capability	155 Mpps
Capacity: ACL entries	512
Capacity: MSTP instances	15
Capacity: Host entries	4000
Capacity: Link aggregation groups	26
Capacity: Routing entries	64
Capacity: Virtual interfaces (VLANs)	4000



## Product Comparison

Feature	FS-248E-FPOE	OS6350-48	C9200L-48P-4X-E
Fixed Ports	48 x 10/100/1000 PoE+ + 4 x Gigabit SFP	48 x 10/100/1000 RJ-45 + 2 x 1G SFP	48 x 10/100/1000 PoE+ + 4 x 1G SFP+
PoE Budget	740 W	370 W	740 W
Switching Capacity	104 Gbps	104 Gbps	176 Gbps
MAC Address Table	16000 entries	16K entries	16K entries
Stacking Capability	Up to 300 switches with FortiGate	Not supported	Up to 8 members
Management	FortiLink via FortiGate, GUI, CLI	OmniVista/CLI	Web UI, CLI, Cisco DNA Center
Layer 3 Support	RIP-2, OSPFv2, VRRP	Static routing	Static Routing, OSPF
Dimensions	17.3 x 16.1 x 1.7 in	17.3 x 8.3 x 1.7 in	17.5 x 13 x 1.73 in

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Power Adapter</li> <li>- Mounting Kit</li> <li>- Quick Start Guide</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP Transceiver</li> <li>- Redundant Power Supply</li> <li>- PoE Injector</li> </ul>



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## References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from [https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396225/Security/Fortinet/Datasheet\\_FortiSwitch\\_Secure\\_Access\\_Series.pdf](https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396225/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf)