



# Fortinet FS-148E-POE Datasheet



## Product Overview

- The Fortinet FortiSwitch Secure Access Family stands out for its strong security, easy network management, and solid performance.
- It is built for modern organizations—SMEs, campuses, and SD-Branch projects—demanding seamless network operations and strict security.
- Key hardware features include 48 GE RJ45 ports, 4 GE SFP ports, and a compact 1RU form factor for easy deployments in various environments.
- FortiSwitch delivers secure network identity, supports PoE, and integrates tightly with FortiGate for centralized policy and traffic management.
- Management is simple through FortiLink, offering visibility and control from a single console, reducing operational overhead.
- By combining security and access, the FortiSwitch FS-148E-POE allows businesses to unify policy enforcement while making network expansion easy and secure.

## Product Highlights

- **Flexible Deployment:** Supports installation from desktops to wiring closets, ideal for various office and campus spaces.
- **Centralized Access Control:** Offers integrated security and access management via FortiGate interfaces through FortiLink.
- **VoIP/Data/Wireless Convergence:** Delivers voice, data, and wireless across one network for improved efficiency and lower costs.
- **High Density and Scalability:** Up to 48 ports per switch, 1 RU design, and stackable up to 300 switches per FortiGate platform.

## Detailed Features



FS-148E-POE

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Component	Specification
Switching Capacity	104 Gbps
Total Ports	48x GE RJ45 + 4x GE SFP
PoE Ports	24 (802.3af/at)
Form Factor	1 RU Rack Mount
Management Port	1 x RJ-45 Serial Console



## Centralized Management with FortiLink

The FS-148E-POE integrates seamlessly with FortiGate via FortiLink, enabling administrators to configure, monitor, and manage switches, users, and devices from a single panel. Auto-discovery, software upgrades, and firmware provisioning simplify the deployment process for networks of any scale, supporting up to 300 managed switches depending on the FortiGate model.

## Comprehensive Layer 2 and Layer 3 Features

FortiSwitch supports critical Layer 2 protocols (Spanning Tree, LLDP/MED, IGMP Snooping) and advanced Layer 3 features such as static routing, policy-based routing, and virtual domains when managed by FortiGate. These enhance flexibility for enterprise edge, aggregation, and SD-Branch, supporting dynamic VLANs and link aggregation for optimal traffic control.

## Robust Security and Access Control

Security is ingrained across every port with dynamic access control, 802.1X authentication (port/MAC/MAB-based), DHCP snooping, and automated host quarantine capabilities. Integrated with FortiGate NAC and MAC black/white listing, the switch enforces policies at the network edge, curbing unauthorized access and malware spread.

## Efficient Policy Enforcement and Visibility

Policy control is granular at the user and device level via central FortiGate management. The system blocks intra-VLAN traffic, enables device detection, and offers high availability with HA clusters. Syslog collection and traffic monitoring further equip network operators to maintain regulatory compliance and fast troubleshooting.

## Advanced High Availability and Stackability

Supporting LAG and active-active split LAG, the switch delivers advanced redundancy and non-stop service continuity. Stack up to 300 switches per FortiGate, optimizing network resilience and operational simplicity for distributed sites or large deployments.

## Integrated Threat Intelligence

Benefit from integrated FortiGuard IoT device identification and real-time network access recommendations, enhancing threat response and proactive policy enforcement. Security rating insights help organizations continually assess and strengthen their overall network posture.

## Seamless UTM Features Extension

When paired with FortiGate, FortiSwitch extends UTM capabilities firewall, IPS, anti-virus, application, and botnet controls to every access port, delivering unified security fabric with consistent enforcement from edge to core.

## Flexible Configuration and API Support

Beyond FortiLink, users may manage FortiSwitches by onboard GUI, API, or CLI, accommodating advanced automation and third-party integration needs. Support for provisioning firmware upon device authorization further streamlines remote rollouts and upgrades.

# Technical Specifications

## Product Specifications

Feature	Value
Product Model	FortiSwitch 148E-POE
Total Network Interfaces	48x GE RJ45 and 4x 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	24 (802.3af/at)
PoE Power Budget	370 W
Mean Time Between Failures	> 10 years
Switching Capacity (Duplex)	104 Gbps



Feature	Value
Packets Per Second (Duplex)	155 Mpps
MAC Address Storage	16 K
Network Latency	3860µs
VLANs Supported	4 K
Link Aggregation Group Size	8
Total Link Aggregation Groups	16
Packet Buffers	1.5 MB
DRAM	256 MB DDR3
FLASH	64 MB
Height (mm)	44
Depth (mm)	348
Width (mm)	440
Height (inches)	1.73
Depth (inches)	13.7
Width (inches)	17.3
Weight	11.5 lbs (5.2 kg)
Power Required	100–240V AC, 50–60 Hz
Power Supply	AC Built in
Redundant Power	No
Power Consumption (Average)	328.782 W
Power Consumption (Maximum)	393.109 W
Heat Dissipation	78.82 BTU/h
Operating Temperature (Min)	0°C (32°F)
Operating Temperature (Max)	45°C (113°F)
Storage Temperature (Min)	-20°C (-4°F)
Storage Temperature (Max)	70°C (158°F)
Humidity	10–90% non-condensing
Certification and Compliance	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2

## Product Comparison



Feature	FS-148E-POE	OS6350-48	C9300L-48T-4X-10A
Switching Capacity	104 Gbps	176 Gbps	176 Gbps
Total Ports	48x GE RJ45 + 4x GE SFP	48x GE RJ45 + 4x GE SFP	48x GE RJ45 + 4x 10G SFP+
PoE Support	24 PoE ports (802.3af/at), 370W budget	48 PoE ports, 370W budget	No PoE
Stacking	Up to 300 switches per FortiGate	Stackable	Stackable
Management Interface	FortiLink, GUI, API, CLI	Web GUI, CLI	WebUI, CLI
Layer 3 Features	L3 Services via FortiGate	Static Routing	Static Routing
Form Factor	1 RU rack mount	1U rack mount	1U rack mount
Redundant Power	No	Optional	Optional

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Power Cable</li> <li>- Rack Mount Kit</li> <li>- Quick Start Guide</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP Transceiver</li> <li>- PoE Injector</li> <li>- Redundant Power Module</li> </ul>



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## References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from [https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396227/Security/Fortinet/Datasheet\\_FortiSwitch\\_Secure\\_Access\\_Series.pdf](https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396227/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf)