Fortinet
FS-448E-POE
Datasheet

Product Overview

- The Fortinet FS-448E-POE is part of the FortiSwitch Secure Access Family, built for robust security, performance, and centralized management.

- Targeting professional environments such as SD-Branch and campus networks, it serves SMEs and large enterprises seeking unified network access and protection.

- With high port density, fast wire-speed switching, and seamless FortiLink integration, this switch supports up to 48 ports within a compact 1RU chassis.

- Advanced integration and centralized control via the FortiGate interface simplify complex network environments and reduce administrative overhead.

- The FS-448E-POE enables secure, converged networks by supporting desktop to data center aggregation, voice, data, and wireless on a single infrastructure.

- Ideal for organizations that require layered security, improved visibility, and seamless expansion, the FS-448E-POE empowers reliable, scalable business connectivity.

Product Highlights

- **Seamless Deployment Flexibility:** Built for both desktop and wiring closet installations, the FS-448E-POE adapts to a variety of network environments.

- **SD-Branch Ready:** Optimized for SD-Branch rollouts, delivering reliable and secure connectivity for distributed architectures.

- **Centralized Management:** Manage security and access through the familiar FortiGate interface using FortiLink, simplifying administration.

- **High Port Density & Scalability:** Offers up to 48 ports in 1RU, enabling stacking of up to 300 switches per FortiGate for large-scale deployments.

Detailed Features

FS-448E-POE

Component	Specification
Switching Capacity	128 Gbps
Forwarding Rate	95.23 Mpps
Ports	48 × 10/100/1000Base-T PoE
Management	FortiGate integration via FortiLink, standalone GUI/API/CLI supported
Form Factor	1 RU, stackable up to 300 switches per FortiGate

Extensive Centralized Management

The FS-448E-POE supports intuitive management and configuration through FortiLink, providing network administrators with a unified FortiGate interface. This enables discovery of multiple switches, streamlined switch stack creation, and straightforward software upgrades, ensuring large networks remain organized and easy to scale.

Comprehensive L2/L3 Services

Layer 2 features like auto VLAN configuration, dynamic port profiles, and advanced spanning tree protocols are complemented by strong Layer 3 capabilities. These include IGMP snooping, L3 routing, and policy-based routing (PBR) via FortiGate, delivering advanced traffic management and segmentation in complex environments.

Robust High Availability

High availability is achieved via switch stacking, link aggregation, and clustering support for FortiLink connections. Features such as active-active split LAG and automated failover minimize downtime, ensuring continuous access for mission-critical business operations and services.

Automated Visibility & Control

Automated discovery, device and network detection capabilities, and MAC black/white listing directly from FortiGate, offer granular user and device control. This sharpens security posture by providing in-depth visibility and adaptive network recommendations to administrators.

Integrated Security Enforcement

802.1X authenticationcovering port, MAC, and MABDHCP snooping, and advanced network access control are tightly integrated within the Fortinet Security Fabric. This ensures all endpoints are authenticated and monitored, bolstering compliance with strict access control requirements.

Advanced UTM Features

With FortiGate, the switch activates features such as firewalling, antivirus, intrusion prevention, application control, and botnet defense. This unified approach blocks threats at the network edge and within the LAN, reducing the attack surface without additional appliances.

Powerful Scalability Options

Supporting up to 300 managed switches per FortiGate, the platform enables enterprises to design and grow their networks incrementally. Features like dynamic profile provisioning, stackable hardware, and firmware deployment on authorization aid rapid expansion and simplified maintenance.

Seamless Integration for Smart Networks

FortiSwitch recommendations, IoT device identification via FortiGuard, and traffic collectors for comprehensive monitoringthese capabilities empower smarter network management. Combined with tight switch-to-gateway interaction, the solution supports next-generation digital business needs.

Technical Specifications

Product Specifications

Feature	Value
Product Model	FS-448E-POE
Switching Capacity	128 Gbps
Forwarding Rate	95.23 Mpps
Ports	48 × 10/100/1000Base-T PoE
Form Factor	1 RU, stackable
Management Modes	FortiLink, onboard GUI, API, CLI
Integration	FortiGate Security Fabric
Max Stack Size	300 switches/FortiGate
L3 Routing	Supported (via FortiGate)
PoE Support	Yes, on all 48 ports
VLAN Support	Centralized configuration via FortiGate

Feature	Value
Link Aggregation	Supported
High Availability	Active-Active Split LAG
Authentication	802.1X (port, MAC, MAB)
Device Detection	Integrated
Policy-Based Control	Supported (FortiGate)
Switch Discovery	Automatic
Firmware Upgrade	Centralized
CLI/GUI/API	Supported
Dimensions	1 RU standard

Product Comparison

Feature	FS-448E-POE	C9300L-48P-4X-E	BR-310-B-0008
Fixed Ports	48 × 10/100/1000Base-T PoE	48 × 10/100/1000Base-T PoE	8 × 10/100/1000Base-T
Switching Capacity	128 Gbps	176 Gbps	20 Gbps
Stacking	Up to 300 units/FortiGate	Up to 8 units	Not supported
PoE Budget	All 48 ports PoE	All 48 ports PoE	Limited PoE
Management	FortiGate/FortiLink, GUI, CLI, API	Cisco DNA Center, CLI, Web	Web, CLI
Routing	L3 routing via FortiGate	Static, RIP, OSPF, EIGRP	Static only
High Availability	Active-Active Split LAG	StackPower, StackWise-320	Not supported
Form Factor	1 RU	1 RU	Desktop
Application Scenario	Enterprise SD-Branch, secure campus	Enterprise, campus, branch	Small business, SOHO

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Mounting Brackets - Quick Installation Guide

Category	Accessories
Optional Accessories	- SFP Transceiver - PoE Injector - Redundant Power Supply

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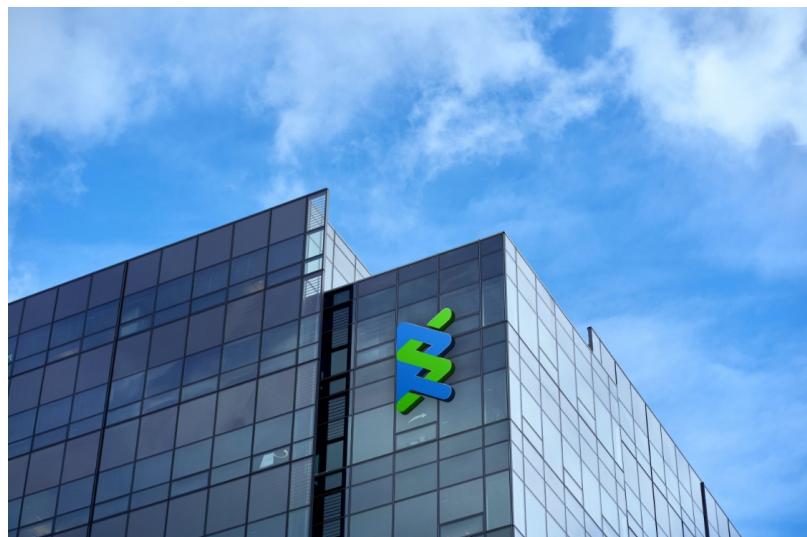
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References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396250/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf