

# Fortinet FS-248E-POE Datasheet



## Product Overview

- The Fortinet FortiSwitch Secure Access Family stands out for its security-focused edge networking and seamless integration within the Fortinet ecosystem.
- Designed for modern businesses, it is ideal for campus, SD-Branch environments, and organizations seeking secure user and device control at scale.
- With 48 GE RJ45 ports and 4 GE SFP uplinks, plus 1RU compact design, the FS-248E-POE delivers high-density connectivity and wire-speed performance.
- Central management through FortiGate with FortiLink gives unified visibility and policy control for networks of any size.
- Unique features, including software-defined segmentation and flexible management interfaces, support both centralized FortiLink and standalone deployments.
- In scenarios from desk aggregation to enterprise branches, the FS-248E-POE empowers organizations to converge security and network access with reliable simplicity and scale.

## Product Highlights

- **Flexible Deployment Options:** Supports installations from desktop to wiring closet, making it versatile for different environments.
- **SD-Branch Ready:** Ideal for SD-Branch and campus deployments with unified security and access management via FortiLink.
- **All-in-One Converged Network:** Delivers voice, data, and wireless traffic over a single network for streamlined operations.
- **High Scalability and Stackability:** Stack up to 300 switches per FortiGate and benefit from compact 1RU form factor for space efficiency.

## Detailed Features



FS-248E-POE

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Component	Specification
Network Interfaces	48x GE RJ45, 4x GE SFP
Form Factor	1 RU Rack Mount
PoE Ports	48 (802.3af/802.3at)
Switching Capacity	104 Gbps
Management Interface	Dedicated 10/100 port



## Unified Fortinet Security Fabric Integration

FS-248E-POE natively integrates with Fortinet Security Fabric via FortiLink. This provides unified access, policy, and security management from a single FortiGate interface, ensuring ease of deployment and strong security posture across edge, branch, and campus environments.

## Auto Discovery and Centralized Management

Supports auto discovery for 8 to 300 managed switches, depending on FortiGate model. Administrators can configure switch stacking, automate firmware upgrades, and centrally manage VLANs and policies, streamlining network operations for growing infrastructures.

## Advanced POE and Link Aggregation Control

Per-port PoE control, centralized switch PoE management, link aggregation configuration (LAG), and dynamic port profiles are supported. Combined with LAG support for FortiLink, this delivers advanced redundancy, energy savings, and efficient multi-device powering.

## Comprehensive VLAN & Segmentation Features

With centralized VLAN configuration, policy-based routing, and support for virtual domains (VDM), the FS-248E-POE delivers granular segmentation. This enables secure isolation of different departments or user groups for compliance and optimized traffic flows.

## Robust Security & Visibility Mechanisms

Luxury features such as 802.1X authentication (port, MAC-based, MAB), DHCP snooping, MAC black/white listing, device detection, and blocking intra-VLAN traffic ensure deep visibility and powerful access control down to each port.

## Automated Threat Detection and Response

The switch works seamlessly with FortiGate for automated detection of rogue devices, host quarantine, and real-time security recommendations. These capabilities help organizations proactively defend against internal and external threats.

## High Availability and Scalability

Supports high availability deployment, with FortiGate HA clusters and active-active split LAGs for advanced redundancy. Dynamic provisioning ensures consistent performance and reliability in demanding multi-tenant and campus environments.

## Comprehensive UTM Integration

Takes advantage of FortiGates full UTM suite such as integrated firewall, IPS, antivirus, application and botnet control. This extends advanced security services directly to the edge while maintaining wire-speed performance and simplified oversight.

## Technical Specifications

### Product Specifications

Feature	Value
Total Network Interfaces	48x GE RJ45 ports and 4x GE SFP ports
Dedicated Management Port	10/100 Port: 1
RJ-45 Serial Console Port	1
Form Factor	1 RU Rack Mount
Power over Ethernet (PoE) Ports	48 (802.3af/802.3at)
PoE Power Budget	740 W
Mean Time Between Failures	> 10 years
Switching Capacity	104 Gbps
Packets Per Second	77.4 Mpps
MAC Address Storage	16 K



Feature	Value
Network Latency	< 1μs
VLANs Supported	4 K
Link Aggregation Group Size	8
Total Link Aggregation Groups	26
Packet Buffers	1.5 MB
DRAM	512 MB
FLASH	128 MB
Height (inches)	1.73
Depth (inches)	16.1
Width (inches)	17.3
Height (mm)	44
Depth (mm)	410
Width (mm)	440
Weight	13.44 lbs (6.1 kg)
Power Required	100–240V AC, 50–60 Hz
Power Supply	AC built in
Redundant Power	Optional FRPS-740
Power Consumption (Average / Maximum)	842 W / 855.02 W
Heat Dissipation	162.87865 BTU/h
Operating Temperature	32–122°F (0–50°C)
Storage Temperature	-4–158°F (-20–70°C)
Humidity	10–90% non-condensing
Certification and Compliance	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2

## Product Comparison

Feature	FS-248E-POE	C1-C2960X-48LPS-L	AL:OS6450-P48
Ports	48x GE RJ45, 4x GE SFP	48x GE RJ45, 4x GE SFP+	48x GE RJ45, 2x SFP+ 2x SFP
PoE Power Budget	740 W	370 W	370 W



Feature	FS-248E-POE	C1-C2960X-48LPS-L	AL:OS6450-P48
Switching Capacity	104 Gbps	216 Gbps	104 Gbps
Stacking Support	Up to 300 switches	Up to 8 switches	Up to 8 switches
Management	FortiLink central/FortiGate	Web/CLI/SNMP	CLI/Web/SNMP
UTM Security	Integrated with FortiGate	Not supported	Not supported
High Availability	HA via FortiGate Cluster	Stacking redundancy	Stacking redundancy
Redundant Power	Optional FRPS-740	Supported	Optional

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Power Cable</li> <li>- Mounting Brackets</li> <li>- Quick Start Guide</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP Transceiver</li> <li>- Redundant Power FRPS-740</li> <li>- Console Cable</li> </ul>



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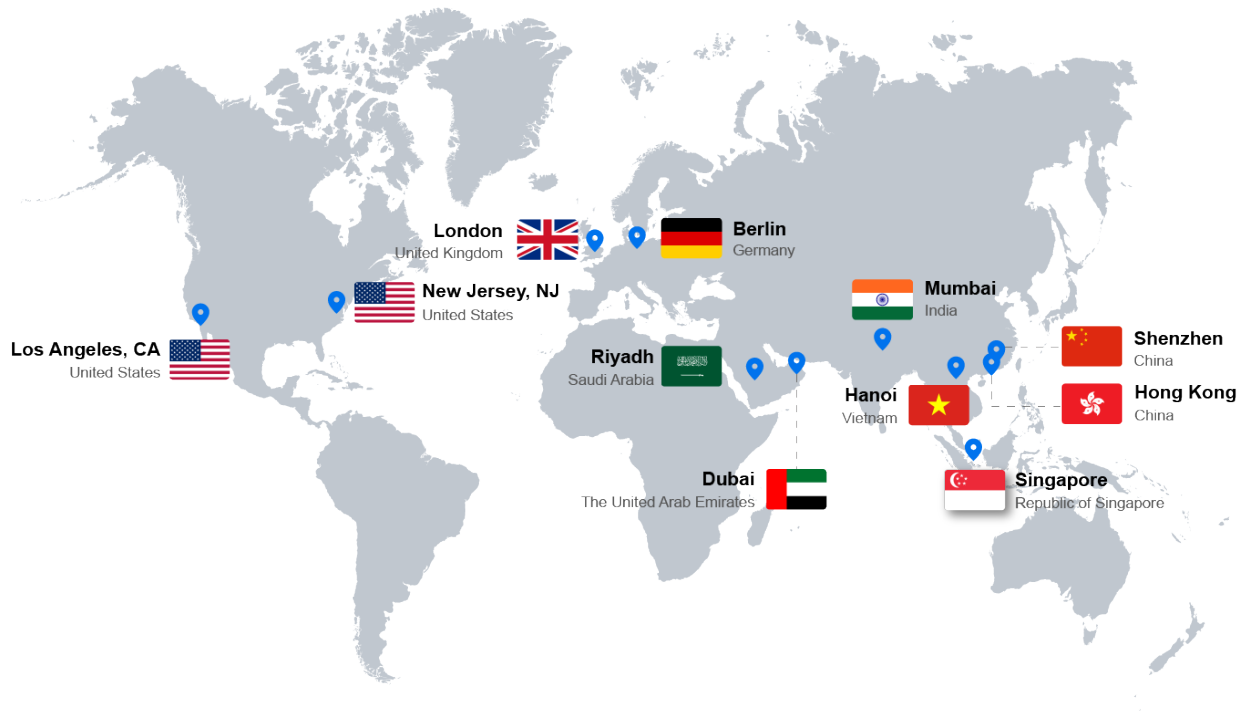
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## Global Footprint

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## References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from [https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396243/Security/Fortinet/Datasheet\\_FortiSwitch\\_Secure\\_Access\\_Series.pdf](https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396243/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf)