

Fortinet FS-448E

Datasheet



Product Overview

- The Fortinet FortiSwitch Secure Access Family is designed to provide robust, scalable, and integrated network security for modern enterprises.
- This switch fits SD-Branch, campus, and enterprise environments, serving offices, educational institutions, and data center aggregations alike.
- With 48 GE RJ45 ports, 4 x 10GE SFP+ uplinks, and a 176 Gbps switching capacity, the FS-448E delivers reliable, high-speed, and high-density connectivity.
- Advanced FortiLink integration allows centralized management from the FortiGate interface, unifying network security and access control.
- Stacking up to 300 switches per FortiGate and flexible deployment support make it easy to scale for growing needs.
- Enterprises benefit from streamlined security, enhanced visibility, and simplified management, maximising network reliability and efficiency.

Product Highlights

- **Flexible Deployment Scenarios:** Designed for installations ranging from desktops to wiring closets, supporting diverse business environments.
- **SD-Branch Optimization:** Ideal for SD-Branch implementations, enabling seamless security and access integration with Fortinet's network fabric.
- **Centralized Management:** Unified control through FortiGate interfaces with FortiLink, streamlining both security and access operations.
- **High Density and Scalability:** Supports up to 48 ports in a compact 1 RU form factor and can stack up to 300 switches per FortiGate model.

Detailed Features



FS-448E

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Component	Specification
Switching Capacity	176 Gbps
Ports	48 × GE RJ45, 4 × 10GE SFP+
Form Factor	1 RU rack-mount
MAC Address Table	32K
Forwarding Rate	262 Mpps



Integrated FortiLink Management

With FortiLink integration, the FS-448E allows network administrators to manage and monitor all switches directly from the FortiGate interface. This provides seamless configuration, unified visibility, and simplified day-to-day operations, reducing management overhead while enhancing security posture across distributed environments.

High-Performance Switching Capacity

The FS-448E delivers 176 Gbps switching capacity and a forwarding rate of 262 Mpps, ensuring wire-speed performance for all 48 GE RJ45 and 4 x 10GE SFP+ ports. This makes it suitable for high-traffic enterprise and campus networks where continuous access to data and applications is critical.

Comprehensive Security Features

Equipped with advanced security, the FS-448E supports 802.1X authentication, DHCP snooping, MAC black/white list, device detection, user and device policy control, and network access quarantine. These features allow businesses to enforce granular network policies and isolate threats at the switch port level.

Flexible Stacking and Redundancy

The switch can stack up to 300 units per FortiGate, and supports link aggregation and active-active split LAG for advanced redundancy. These capabilities ensure that network expansions or reconfiguration can be carried out efficiently with minimal downtime, supporting high-availability designs.

Advanced VLAN and Traffic Management

FS-448E supports centralized VLAN configuration from FortiGate, dynamic port profiles, LLDP/MED, IGMP snooping, and policy-based routing. This enables efficient network segmentation, optimized traffic engineering, and simplified access provisioning tailored to evolving business needs.

Multiple Deployment Modes

While optimized for FortiLink operation, the FS-448E can also be deployed via onboard GUI, API, or command-line for non-FortiLink setups. This ensures deployment flexibility for diverse IT environments and operational models.

Unified Threat Management Integration

Leveraging the Fortinet Security Fabric, the switch enables features such as firewall (FortiGate), antivirus, application control, and botnet protection when paired with FortiGate UTM. This holistic approach secures wired and wireless network access points under a single platform.

IoT & Device Visibility

Integrated with FortiGuard IoT identification, the switch allows enhanced visibility of all devices on the network, supporting secure and proactive management in environments with growing numbers of connected IoT endpoints.

Technical Specifications

Product Specifications

Feature	Value
Total Network Interfaces	48 × GE RJ45 ports and 4 × 10GE SFP+ ports
Note	SFP+ ports are compatible with 1GE SFP.
Dedicated Management 10/100 Port	1
RJ-45 Serial Console Port	1
Form Factor	1 RU rack-mount
Power over Ethernet (PoE) Ports	— (no PoE)
PoE Power Budget	N/A
MTBF	> 10 years
Switching Capacity (Duplex)	176 Gbps
Packets Per Second (Duplex)	262 Mpps
MAC Address Storage	32K



Feature	Value
Network Latency	< 1 μ s
VLANs Supported	4K
Link Aggregation Group Size	8
Total Link Aggregation Groups	Up to number of ports
Packet Buffers	2 MB
DRAM	1 GB DDR4
FLASH	256 MB
ACL	1.5k
Spanning Tree Instances	16
Route Entries	16k
Host Entries	16k
Dimensions (inches)	1.75 × 12.2 × 17.3
Dimensions (mm)	44 × 310 × 440
Weight	9.17 lbs (4.16 kg)
Power Required	100–240V AC, 50/60 Hz
Power Supply	AC built-in
Redundant Power	Supported (Redundant AC)
Power Consumption (Avg / Max)	46.5 W / 47.81 W
Heat Dissipation	163.032 BTU/h
Operating Temperature	32–122°F (0–50°C)
Storage Temperature	-4–158°F (-20–70°C)
Humidity	10–90% non-condensing
Airflow Direction	Side-to-back

Product Comparison

Feature	FS-448E	OS6250-P24	C9300L-24P-4G-E
Ports	48 × GE RJ45 + 4 × 10GE SFP+	24 × 10/100/1000 RJ45 + 2 × 1G SFP	24 × 1G POE+ RJ45 + 4 × 1G SFP
Switching Capacity	176 Gbps	68 Gbps	56 Gbps



Feature	FS-448E	OS6250-P24	C9300L-24P-4G-E
Stacking Support	Up to 300 per FortiGate	Up to 8 via stacking module	Up to 8 via StackWise-160
PoE Support	No PoE	PoE on select models	PoE+ (370W default)
Management	FortiGate centralized, GUI, CLI	Web, SNMP, CLI	Web GUI, CLI, Cisco DNA Center
Dimensions (mm)	44 × 310 × 440	44 × 442 × 220	44.5 × 445 × 288
MAC Address Table	32K	16K	16K
Layer 3 Routing	Via FortiGate	Static routing	Static & dynamic routing
Redundant Power	Supported	Supported	Supported

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - AC Power Cord - Rack Mount Kit - Quick Start Guide
Optional Accessories	<ul style="list-style-type: none"> - SFP+ Transceiver Module - Redundant Power Supply - Console Cable



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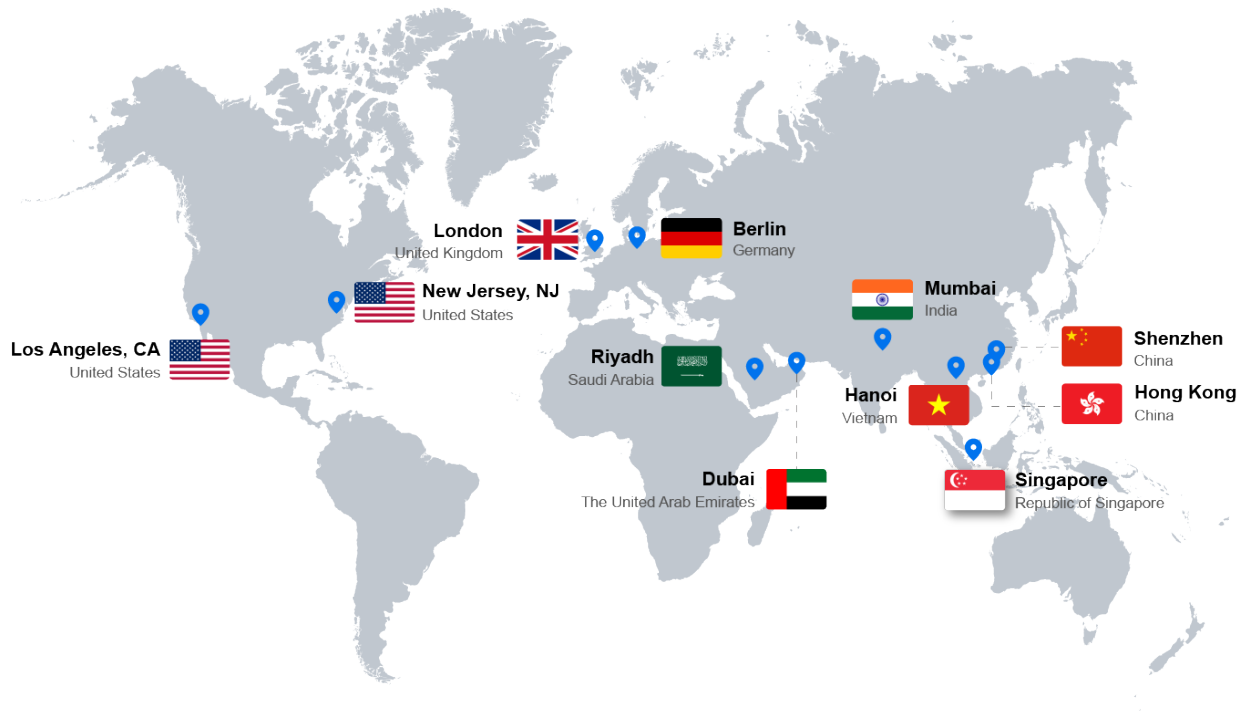
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Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK



References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396248/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf