



Fortinet FS-248D

Datasheet



Product Overview

- The Fortinet FortiSwitch Secure Access Family positions the FS-248D as a reliable switch for secure campus and branch networks.
- It is ideal for businesses of all sizes, especially those focused on security, efficiency, and unified network control.
- The FS-248D features 48 GE RJ45 and 4 GE SFP ports, 104 Gbps switching capacity, and 155 Mpps forwarding performance, all in a 1RU design.
- Its integration with FortiGate via FortiLink, stacking scalability, and seamless VLAN management highlight its unique value.
- The centralized FortiGate interface streamlines deployment, user, and device management, simplifying ongoing operations.
- Perfect for SD-Branch and data center aggregation, FS-248D bridges security and network access for flexible business growth.

Product Highlights

- Flexible Deployment:** Designed for environments from desktops to wiring closets, making it suitable for varied installation needs.
- SD-Branch Ready:** Supports advanced SD-Branch deployments, enabling unified connectivity and simplified network expansion.
- Centralized Management:** FortiLink allows security and access controls to be managed from the FortiGate interface for increased visibility.
- High Port Density and Stacking:** Up to 48 ports in 1RU, supports stacking up to 300 switches per FortiGate, for large-scale deployments.

Detailed Features



FS-248D

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Component	Specification
Total Network Interfaces	48x GE RJ45 ports and 4x GE SFP ports
Form Factor	1 RU Rack Mount
Switching Capacity	104 Gbps
VLANs Supported	4K
Mean Time Between Failures	> 10 years



Unified Security Fabric Integration

FS-248D works directly with Fortinets Security Fabric using FortiLink, allowing for automatic device discovery, easy stacking, and zero-touch software upgrades. This integrated approach gives administrators a single, clear dashboard to build secure, scalable networks with consistent policy control.

Flexible Management and Configuration

Administrators can manage 8300 switches per FortiGate model. The FS-248D supports centralized VLAN configuration, dynamic port profiles, link aggregation, and active-active split LAGs for advanced redundancy, all simplifying ongoing operations and network scaling.

Comprehensive Network Services

With FortiGate, the FS-248D extends L3 routing, policy-based routing, and virtual domains down to the access layer. Automated detection, high availability, and dynamic network recommendations boost uptime and adaptability for business-critical environments.

Centralized Access Management

Whether through auto provisioning or managed firmware upgrade, the FS-248D streamlines network operations. Support for FortiGate in HA cluster mode and FortiLink connection LAG deliver stable, reliable operations for larger, distributed organizations.

Enhanced Access Security

The switch enables robust security enforcement via port-based 802.1X authentication (including MAC-based and MAB), DHCP snooping, device detection, MAC black/white listing, and granular user/device policy control. This ensures only authorized endpoints gain network access.

Advanced Visibility and Threat Detection

Syslog collection, network device detection, and comprehensive switch traffic collection give IT teams powerful tools for threat detection and forensic analysis. Host quarantine on switch ports and FortiGuard IoT identification further extend security posture.

Integrated Network Access Control

FS-248D provides built-in NAC functionality through the FortiGate interface for seamless access management. Intra-VLAN traffic can be blocked to prevent lateral movement of threats, and device quarantine can be enforced instantly on suspicious endpoints.

Full-Spectrum UTM Protection

When deployed with FortiGate, the switch supports UTM functions like firewalling, antivirus, IPS, application control, and botnet detection. This creates unified protection from edge to access, meeting the high security demands of modern enterprises.

Technical Specifications

Product Specifications

Feature	Value
Total Network Interfaces	48x GE RJ45 ports
SFP Ports	4x GE SFP ports
Dedicated Management 10/100 Port	1
RJ-45 Serial Console Port	1
Form Factor	1 RU Rack Mount
Power over Ethernet (PoE) Ports	—
PoE Power Budget	N/A
Mean Time Between Failures	> 10 years
Switch Type	Web and CLI Managed
Switching Capacity	104 Gbps
Packets Per Second	155 Mpps
MAC Address Storage	16K



Feature	Value
Network Latency	< 1µs
VLANs Supported	4K
Link Aggregation Group Size	8
Total Link Aggregation Groups	26
Packet Buffers	1.5 MB
DRAM	512 MB
FLASH	128 MB
Dimensions (Height x Width x Length in inches)	1.73 x 9.68 x 17.3
Dimensions (Height x Width x Length in mm)	44 x 246 x 440
Weight	7.81 lbs (3.54 kg)
Power Required	100–240V AC, 50–60 Hz
Power Supply	AC built in
Redundant Power	—
Power Consumption (Average)	38.66 W
Power Consumption (Maximum)	39.19 W
Heat Dissipation	134 BTU/h
Operating Temperature (Min)	32°F (0°C)
Operating Temperature (Max)	122°F (50°C)
Storage Temperature (Min)	-4°F (-20°C)
Storage Temperature (Max)	158°F (70°C)
Humidity	10–90% non-condensing
Certification and Compliance	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2

Product Comparison

Feature	FS-248D	N9K-C9332D-H2R	C1-WS3650-48UZ/K9
Total Ports	48x GE RJ45 & 4x GE SFP	32x 100GbE QSFP28	48x 1G UPOE + 4x 10G SFP+
Switching Capacity	104 Gbps	6.4 Tbps	176 Gbps
PoE Support	No	No	Yes (UPOE)



Feature	FS-248D	N9K-C9332D-H2R	C1-WS3650-48UZ/K9
Management	Web/CLI, FortiLink integration	CLI, NX-OS	Web/CLI, Smart Operations
Stacking Capability	Up to 300 per FortiGate	Up to 40 via Cisco StackWise	Supported
Layer 3 Routing	With FortiGate	Full L3	Advanced L3
Redundant Power	Not supported	Supported	Supported
Typical Use Case	SD-Branch, secure campus access	Data center, high-performance core	Enterprise access/aggregation

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - AC Power Cable - Rack Mount Kit - Quick Start Guide
Optional Accessories	<ul style="list-style-type: none"> - SFP Transceiver Modules - Cable Management Kit - Console Cable



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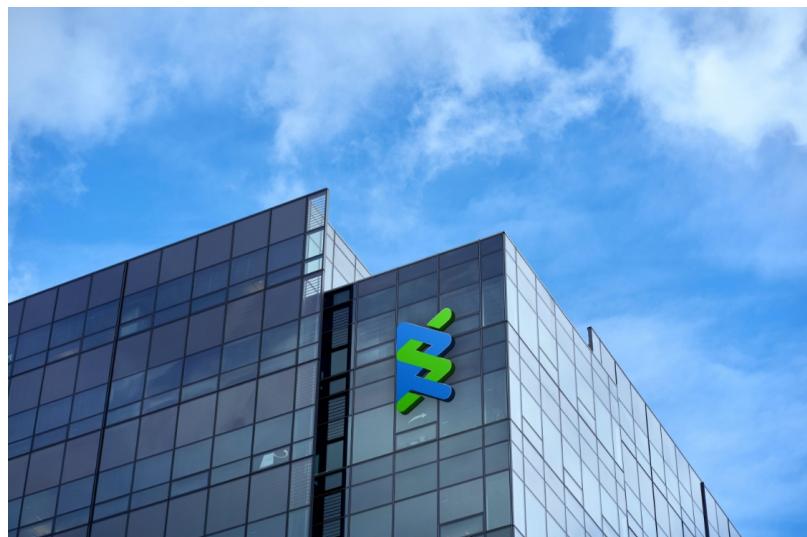


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References

[1] Fortinet. (2024). FortiSwitch Secure Access Series Datasheet. Retrieved from https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396228/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf