



Fortinet FS-148F

Datasheet



Product Overview

- Fortinet's FortiSwitch Secure Access Family combines robust security, advanced performance, and strong manageability in a single enterprise-grade platform.
- Suitable for enterprises of all sizes, it is designed for use in demanding environments such as desktop access, SD-Branch, and campus network applications.
- The FS-148F features 48 GE RJ45 ports and 4 10GE SFP+ uplinks, delivers a 176 Gbps switching capacity, and supports under 1µs of network latency.
- With support for centralized FortiGate management using FortiLink, users benefit from seamless, integrated visibility and control across the whole network.
- Key differentiators include easy stackability with up to 300 switches, a compact 1RU design, and the flexibility to support non-FortiLink modes via GUI, API, or CLI.
- Small to large organizations can converge voice, data, and wireless in a streamlined, secure network, boosting operational efficiency and future-proofing IT investments.

Product Highlights

- Versatile Deployment Options:** Designed for use from desktop environments to wiring closets, adapting easily to many organizational needs.
- SD-Branch and Campus Ready:** Optimized for SD-Branch deployments and campus networks, supporting comprehensive enterprise applications.
- Centralized Network Management:** Enables security and access management through FortiGate interfaces with integrated FortiLink.
- Scalable High-Density Design:** Delivers up to 48 ports in a single 1RU unit; stack up to 300 switches per FortiGate for large, unified deployments.

Detailed Features



FS-148F

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Component	Specification
Total Network Interfaces	48x GE RJ45 and 4x 10GE SFP+
Form Factor	1RU Rack Mount
Mean Time Between Failures	> 10 years
Switching Capacity (Duplex)	176 Gbps
Network Latency	<1µs



High-Density Gigabit Access

FS-148F provides 48 Gigabit Ethernet RJ45 ports and four 10GE SFP+ uplinks. This hardware setup enables flexible deployment, offering high-density desktop or closet access and supporting demanding traffic scenarios. Large MAC address tables, extensive VLAN support, and rapid packet processing help maintain non-blocking throughput for enterprise and campus networks.

FortiLink Integration for Simplified Management

Through FortiLink, the FS-148F integrates directly into Fortinet Security Fabric, allowing management from a FortiGate. This unified interface means single-pane-of-glass management, efficient configuration, policy enforcement, stack management, and device visibility cutting down operational overhead with automated switch discovery and centralized VLAN/routing provisioning.

Advanced Security and Access Controls

Security is robust, with integrated 802.1X, DHCP snooping, MAC-based controls, host quarantine, and syslog support. Together with FortiGate, organizations get access to policy-based user/device controls, NAC, dynamic port profiles, and real-time device detection. These features help safeguard access layers from potential threats and unauthorized devices.

Comprehensive Switching and Redundancy Features

The switch supports software upgrades, IGMP snooping, LLDP/MED, link aggregation (LAG), and spanning tree. High-availability is supported with FortiGate clusters, dynamic port provisioning, and auto inter-switch link stacking. These ensure a resilient network that remains operational even under failure conditions or during scaling.

Optimized for Flexible Network Architectures

FS-148F accommodates converged environments by handling voice, data, and wireless on one network infrastructure. Extensive support for VLANs and store-and-forward processing enables fast, reliable switching, supporting complex layouts from edge to data center aggregation while maintaining consistent service quality.

Automated Detection and Recommendation

Leveraging FortiGate integration, the switch allows for automatic device and network detection. Integration with FortiGuard IoT identification addresses evolving IoT threats, while Security Rating recommendations proactively guide administrators to improve their security posture and operational policies.

Policy-Based Routing and Layer 3 Capabilities

The FS-148F extends Layer 3 routing, policy-based routing, and dynamic service options through FortiGate. Organizations can deploy virtual domains, route efficiently, and dynamically segment traffic for multi-tenant and enterprise environments ensuring optimal traffic flows and segmentation.

Comprehensive UTM and Security Fabric Support

Combined with a FortiGate, users can enable a full range of UTM features such as firewall, intrusion prevention (IPC), antivirus, application control, and botnet defense. This layered protection minimizes security risks in real time and allows continuous visibility across a converged access fabric.

Technical Specifications

Product Specifications

Feature	Value
Total Network Interfaces	48x GE RJ45 and 4x 10GE SFP+
Dedicated Management 10/100 Port	0
RJ-45 Serial Console Port	1
Form Factor	1RU Rack Mount
Power over Ethernet (PoE) Ports	0
PoE Power Budget	0
Mean Time Between Failures	> 10 years



Feature	Value
Switching Capacity (Duplex)	176 Gbps
Packets Per Second (Duplex)	260 Mpps
MAC Address Storage	32K
Network Latency	<1µs
VLANs Supported	4K
Link Aggregation Group Size	8
Total Link Aggregation Groups	16
Packet Buffers	2MB
Memory	512 MB DDR3
Flash	64 MB
AC L	640
Spanning Tree Instances	32

Product Comparison

Feature	FS-148F	C9200-24T-A	C9200L-24T-4X-A
Fixed Ports	48x GE RJ45 + 4x 10GE SFP+	24x GE RJ45 + 4x 1GE SFP	24x GE RJ45 + 4x 10GE SFP+
Switching Capacity	176 Gbps	128 Gbps	128 Gbps
Packet Forwarding Rate	260 Mpps	95.23 Mpps	95.23 Mpps
PoE Support	No	No	No
Stacking Capacity	Up to 300 switches/ FortiGate	Up to 8 units	Up to 8 units
Management	FortiGate (FortiLink), GUI, API, CLI	Web UI, CLI, Cisco DNA Center	Web UI, CLI, Cisco DNA Center
Layer 3 Routing	Via FortiGate	Supported	Supported
Mean Time Between Failures	> 10 years	> 1,000,000 hours	> 1,000,000 hours
VLAN Support	4K	4K	4K



Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- Power Cord- Rack Mount Kit- Quick Start Guide
Optional Accessories	<ul style="list-style-type: none">- SFP+ Transceivers- Stacking Cables- Console Cable



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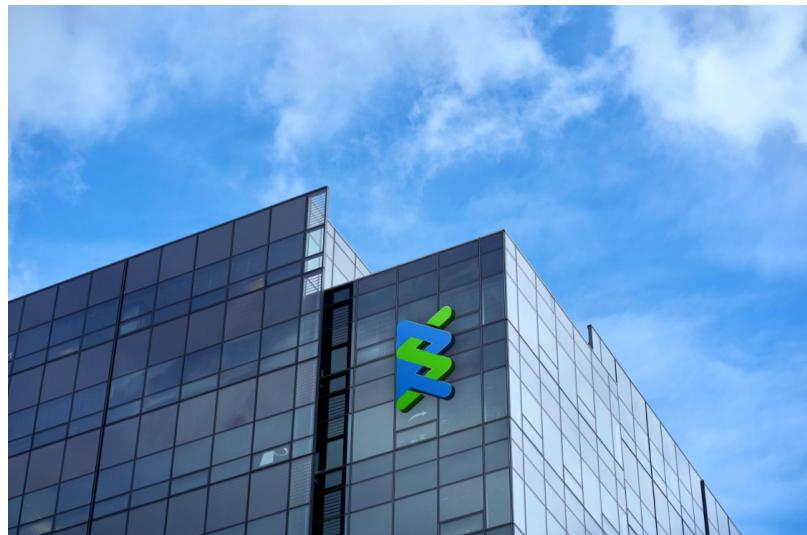


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References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396239/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf