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FORTINET FS-124F-FPOE

FORTINET FortiSwitch 124F-FPOE User Manual

Model: FS-124F-FPOE
Brand: FORTINET

1. Introduction

This user manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of the FORTINET FortiSwitch 124F-FPOE. The FortiSwitch 124F-FPOE is a high-performance, L2+ managed Power over Ethernet (PoE) switch designed for enterprise networks, offering 24 Gigabit Ethernet ports with PoE capabilities and 4 SFP+ uplink ports. It is rack-mountable and delivers secure, integrated network access.

2. Product Overview

The FortiSwitch 124F-FPOE is a robust networking device engineered to provide reliable and secure connectivity. Its design emphasizes efficient power delivery for connected devices and high-speed data transfer.



Figure 2.1: Front view of the FortiSwitch 124F-FPOE, showing 24 Gigabit Ethernet ports with PoE, 4 SFP+ uplink ports, console port, and LED indicators for power, alarm, and PoE Max.

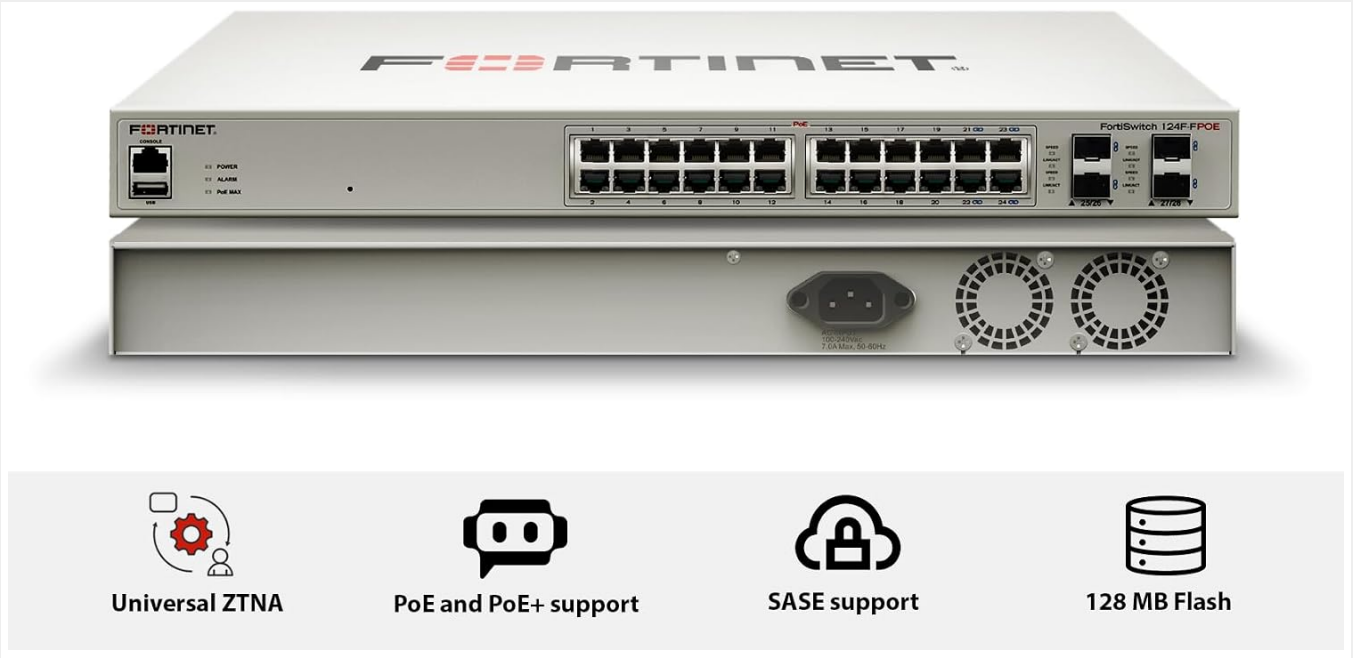

Figure 2.2: Front and rear view of the FortiSwitch 124F-FPOE, illustrating the front panel ports and the rear panel with the AC power input and cooling fans. Key features like Universal ZTNA, PoE and PoE+ support, SASE support, and 128 MB Flash are highlighted.

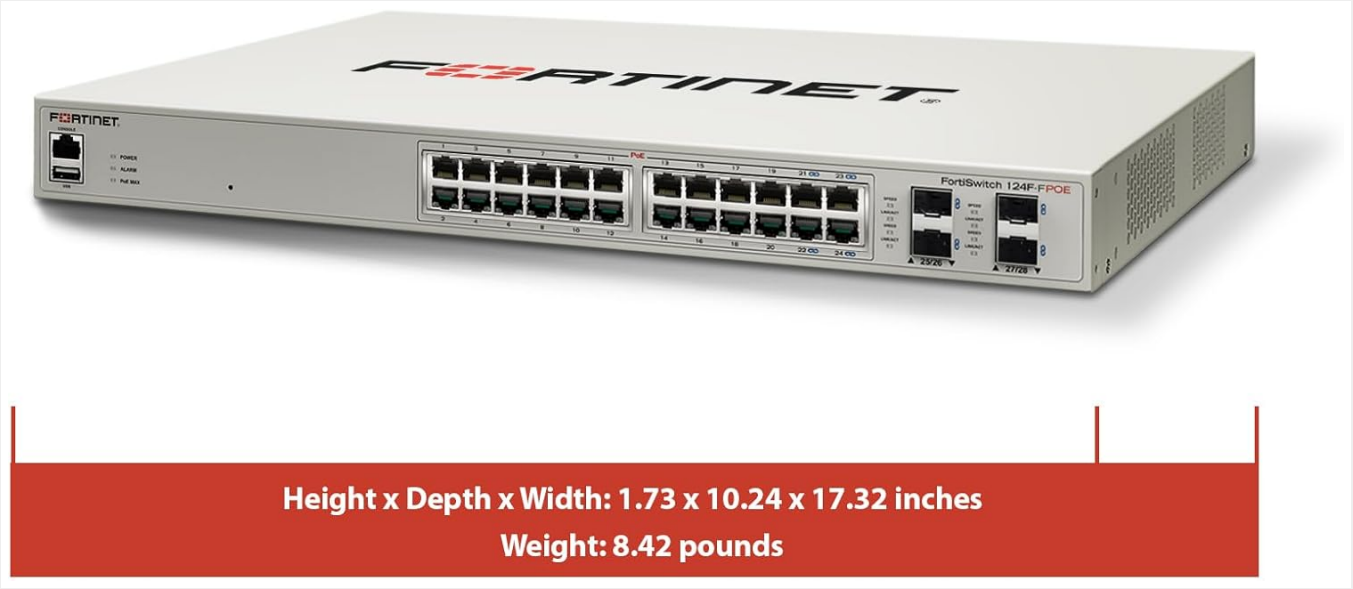

Figure 2.3: Angled view of the FortiSwitch 124F-FPOE, indicating its physical dimensions: Height x Depth x Width: 1.73 x 10.24 x 17.32 inches, and Weight: 8.42 pounds.



Figure 2.4: Rear view of the FortiSwitch 124F-FPOE, showing the AC power input (100-240Vac, 50-60Hz, 7.0A Max) and dual cooling fans.

3. Setup and Installation

3.1 Unboxing and Inspection

Carefully remove the FortiSwitch from its packaging. Inspect the device for any signs of damage during transit. Verify that all components listed in the packing slip are present, including the switch unit, power cord, and rack-mount kit.

3.2 Rack Mounting

The FortiSwitch 124F-FPOE is designed for standard 19-inch rack installation. Use the provided rack-mount brackets and screws to secure the switch in a server rack. Ensure adequate ventilation space around the unit for proper airflow.

- Attach the rack-mount brackets to the sides of the switch using the supplied screws.
- Align the switch with the rack posts and secure it using appropriate rack screws.
- Ensure the switch is level and firmly seated in the rack.

3.3 Power Connection

Connect the provided AC power cord to the power input on the rear panel of the FortiSwitch and then to a grounded electrical outlet. The switch will power on automatically.

- Verify the power LED on the front panel illuminates, indicating the device is receiving power.

3.4 Network Connections

Connect network devices (e.g., computers, access points, IP cameras) to the 24 Gigabit Ethernet ports. For uplink connectivity to your core network or other switches, use the 4 SFP+ ports with appropriate transceivers and fiber optic cables.

- For PoE-powered devices, ensure they are connected to the PoE-enabled ports.
- Observe the link/activity LEDs on each port to confirm successful connection.

3.5 Initial Configuration Access

For initial configuration and management, connect a console cable from your management workstation to the RJ-45 console port on the front panel. Use a terminal emulator program (e.g., PuTTY, Tera Term) with the following settings:

- Baud Rate: 9600
- Data Bits: 8
- Parity: None
- Stop Bits: 1
- Flow Control: None

Alternatively, once the switch obtains an IP address (via DHCP or static assignment), it can be accessed via a web-based GUI or SSH/Telnet for management.

4. Operation

4.1 Basic Functionality

Upon successful power-on and network connection, the FortiSwitch 124F-FPOE begins forwarding Ethernet frames between connected devices. As a managed switch, its full capabilities are unlocked through configuration.

4.2 Power over Ethernet (PoE)

The FortiSwitch 124F-FPOE provides Power over Ethernet (PoE) on its 24 Gigabit Ethernet ports, allowing compatible devices (e.g., IP phones, wireless access points, IP cameras) to receive both data and power over a single Ethernet cable. The switch supports PoE (802.3af) and PoE+ (802.3at) standards, delivering up to 30W per port, with a total power budget of 370W.

- **PoE Max LED:** This indicator illuminates when the total PoE power consumption approaches the maximum budget, signaling potential overload.

- **Power Management:** PoE power can be managed and monitored via the switch's management interface.

4.3 Management and Configuration

The FortiSwitch 124F-FPOE offers various management options:

- **Command Line Interface (CLI):** Accessible via the console port or SSH/Telnet for advanced configuration and scripting.
- **Web-based Graphical User Interface (GUI):** Provides an intuitive interface for common configurations, monitoring, and management.
- **FortiLink:** For integration with FortiGate firewalls, enabling centralized management and security policy enforcement across the network.

Key configurable features include VLANs, Link Aggregation (LAG), Quality of Service (QoS), Spanning Tree Protocol (STP), and security policies.

5. Maintenance

5.1 Firmware Updates

Regularly check the Fortinet support website for the latest firmware versions. Keeping the firmware updated ensures optimal performance, security, and access to new features. Follow the instructions provided by Fortinet for the firmware upgrade process, typically involving downloading the firmware image and uploading it via the GUI or CLI.

5.2 Cleaning

To maintain proper airflow and prevent overheating, periodically clean the exterior of the switch and ensure the ventilation openings are free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid or aerosol cleaners directly on the device.

5.3 Environmental Considerations

Ensure the operating environment adheres to the specified temperature and humidity ranges to prevent damage and ensure stable operation. Avoid placing the switch in direct sunlight, near heat sources, or in areas with excessive dust or moisture.

6. Troubleshooting

This section provides basic troubleshooting steps for common issues. For more complex problems, refer to the Fortinet documentation or contact technical support.

6.1 No Power

- Verify the power cord is securely connected to both the switch and the electrical outlet.
- Ensure the electrical outlet is functional by testing it with another device.
- Check the power LED on the front panel. If it's off, there might be a power supply issue.

6.2 No Link on Port

- Ensure the Ethernet cable is properly connected at both ends.
- Try a different Ethernet cable to rule out cable failure.
- Connect a different device to the port to check if the issue is with the connected device.
- Verify the port status and configuration (e.g., speed, duplex, VLAN settings) via the switch's management interface.

6.3 PoE Device Not Powering On

- Confirm the connected device is PoE-compatible (802.3af/at).
- Check the PoE status of the port via the switch's management interface.
- Ensure the total PoE power budget of the switch is not exceeded (monitor the PoE Max LED).
- Try connecting the device to a different PoE port.

6.4 Unable to Access Management Interface

- Verify your management workstation's IP address is in the same subnet as the switch's management IP.
- Check network connectivity (ping the switch's IP address).
- Ensure no firewall rules are blocking access to the management ports (HTTP/HTTPS, SSH, Telnet).
- If web GUI is unresponsive, try accessing via CLI (console or SSH).

7. Specifications

The following table details the technical specifications of the FORTINET FortiSwitch 124F-FPOE:

Feature	Value
Brand	FORTINET
Model Number	FS-124F-FPOE
Number of Ports	24GE + 4SFP+
Interface Type	PoE
Data Transfer Rate	1000 Megabits Per Second (1 Gbps)
Maximum Power (PoE Budget)	370 Watts
Item Weight	4.88 Kilograms (10.73 pounds)
Package Dimensions	21.3 x 13.7 x 4.2 inches
Manufacturer	Fortinet
UPC	195875000689
First Available Date	March 22, 2021
Color	white
Compatible Devices	Desktop

Note: For detailed hardware specifications including switching capacity, packets per second, memory, and environmental conditions, please refer to the official Fortinet product datasheet.

8. Warranty and Support

8.1 Product Warranty

The FORTINET FortiSwitch 124F-FPOE comes with a **Limited lifetime warranty** on all models. For detailed terms and

conditions of the warranty, please refer to the official Fortinet warranty policy document available on their website or contact Fortinet support.
Note: PoE power consumption is similar to non-PoE models if PoE is not in use.

8.2 Technical Support

For technical assistance, advanced troubleshooting, or inquiries regarding your FortiSwitch, please contact Fortinet Technical Support. Before contacting support, it is recommended to have your product model number (FS-124F-FPOE) and serial number readily available.
You can find support resources, FAQs, and contact information on the official Fortinet support website: www.fortinet.com/support

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