FORTINET FS-124F-POE

Fortinet FortiSwitch 124F-POE User Manual

Model: FS-124F-POE

1. PRODUCT OVERVIEW

The FortiSwitch™ Secure Access Family delivers outstanding security, performance, and manageability. Secure, simple, and scalable, FortiSwitch is the right choice for threat-conscious businesses of all sizes. Tightly integrated into the Fortinet Security Fabric via FortiLink, FortiSwitch can be managed directly from the familiar FortiGate interface. This single pane of glass management provides complete visibility and control.

This FortiSwitch 124F-POE model is a Layer 2+ managed PoE switch designed for robust network environments.

Figure 1: Front view of the Fortinet FortiSwitch 124F-POE, showing 24 PoE ports and uplink ports.

Universal ZTNA

PoE and PoE+ support

SASE support

128 MB Flash

2. PHYSICAL DESCRIPTION AND DIMENSIONS

The FortiSwitch 124F-POE features 24 RJ45 ports with Power over Ethernet (PoE) capabilities, along with additional uplink ports for network connectivity. The front panel includes status indicators for power, alarm, and PoE max, as well as a console port for management.

Height x Depth x Width: 1.73 x 10.24 x 17.32 inches
Weight: 7.85 pounds

Figure 3: Dimensions of the FortiSwitch 124F-POE: Height x Depth x Width: 1.73 x 10.24 x 17.32 inches. Weight: 7.85 pounds.

Figure 4: Rear view of the FortiSwitch 124F-POE, showing the AC input and console port.

3. SETUP

1. **Unpacking:** Carefully remove the FortiSwitch from its packaging. Verify all components are present.

2. **Mounting:** The device is 1 RU rack mountable. Securely install the switch in a standard 19-inch equipment rack using the provided rack-mount kit.

3. **Connections:**

   - Connect network devices (e.g., IP phones, wireless access points, cameras) to the PoE-enabled RJ45 ports.
   - Connect uplink ports to your core network or FortiGate device.
   - Connect a console cable to the RJ45 console port for initial configuration if needed.

4. **Power On:** Connect the power cord to the AC input on the rear panel and then to a suitable power outlet. The power indicator on the front panel should illuminate.

4. OPERATING INSTRUCTIONS

The FortiSwitch 124F-POE is designed for seamless integration with Fortinet Security Fabric via FortiLink. This allows for centralized management directly from a FortiGate interface, providing a single pane of glass for network

visibility and control.

For detailed configuration and operation, refer to the FortiSwitch Administration Guide available on the official Fortinet documentation portal. This guide covers topics such as VLAN configuration, link aggregation, security policies, and monitoring.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your FortiSwitch. Key maintenance activities include:

- **Firmware Updates:** Periodically check for and apply the latest firmware updates to ensure security and access to new features.

- **Environmental Control:** Ensure the operating environment maintains appropriate temperature and humidity levels as specified in the technical specifications.

- **Physical Inspection:** Regularly inspect cables and connections for wear or damage. Ensure proper airflow around the device.

- **Configuration Backup:** Regularly back up your switch configuration to prevent data loss in case of unforeseen issues.

6. TROUBLESHOOTING

If you encounter issues with your FortiSwitch 124F-POE, consider the following basic troubleshooting steps:

- **Power Issues:** Verify the power cord is securely connected and the power outlet is functional. Check the power indicator on the front panel.

- **Connectivity Problems:** Ensure Ethernet cables are properly connected to both the switch and the connected devices. Check port status indicators.

- **PoE Issues:** Confirm that the connected device is PoE-compatible and that the switch's PoE budget is not exceeded. Check the PoE Max indicator.

- **Console Access:** If unable to access the web-based management interface, try connecting via the console port for command-line interface (CLI) access.

- **Firmware:** Ensure the switch is running a stable and compatible firmware version.

- **Documentation:** Consult the comprehensive FortiSwitch documentation and Fortinet support resources for more advanced troubleshooting guides.

7. TECHNICAL SPECIFICATIONS

Below are the key technical specifications for the FortiSwitch 124F-POE:

FS-124F-POE Specifications

Switching Capacity (Duplex)	128 Gbps
Packets Per Second (Duplex)	190 Mpps
Memory	512 MB DDR3
RJ-45 Serial Console Port	1
VLANs Supported	4K
Network Latency	< 1μs

Figure 5: Specific technical specifications for the FortiSwitch 124F-POE model.

SPECIFICATIONS

	FORTISWITCH 124F	FORTISWITCH 124F-POE	FORTISWITCH 124F-FPOE
Hardware Specifications			
Total Network Interfaces	24x GE RJ45 and 4× 10GE SFP+	24x GE RJ45 and 4× 10GE SFP+	24x GE RJ45 and 4× 10GE SFP+
Dedicated Management 10/100 Port	0	0	0
RJ-45 Serial Console Port	1	1	1
Form Factor	1 RU Rack Mount	1 RU Rack Mount	1 RU Rack Mount
Power over Ethernet (PoE) Ports	0	12 (802.3af/at)	24 (802.3af/at)
PoE Power Budget	0	185 W	370 W
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
System Specifications			
Switching Capacity (Duplex)	128 Gbps	128 Gbps	128 Gbps
Packets Per Second (Duplex)	190 Mpps	190 Mpps	190 Mpps
MAC Address Storage	32 K	32 K	32 K
Network Latency	< 1µs	< 1µs	< 1µs
VLANs Supported	4 K	4 K	4 K
Link Aggregation Group Size	8	8	8
Total Link Aggregation Groups	16	16	16
Packet Buffers	2 MB	2 MB	2 MB
DRAM	512 MB DDR3	512 MB DDR3	512 MB DDR3
FLASH	64 MB	64 MB	64 MB
ACL	768	768	768
Spanning Tree Instances	16	16	16
Dimensions			
Height x Depth x Width (inches)	1.73 × 9.06 × 12.99	1.73 × 10.24 × 17.32	1.73 × 10.24 × 17.32
Height x Depth x Width (mm)	44 × 230 × 330	44 × 260 × 440	44 × 260 × 440
Weight	4.48 lbs (2.03 kg)	7.85 lbs (3.56 kg)	8.42 lbs (3.82 kg)
Environment			
Power Required	100–240V AC, 50-60 Hz	100–240V AC, 50-60 Hz	100–240V AC, 50-60 Hz
Power Supply	AC built in	AC built in	AC built in
Redundant Power	No	No	No
Power Consumption* (Average / Maximum)	24.8 W / 26.3 W	235.9 W / 237.4 W	449.8 W / 451.3 W
Heat Dissipation	89.683 BTU/h	102.982 BTU/h	118.327 BTU/h
Operating Temperature	32–113°F (0–45°C)	32–113°F (0–45°C)	32–113°F (0–45°C)
Storage Temperature	-4–158°F (-20–70°C)	-4–158°F (-20–70°C)	-4–158°F (-20–70°C)
Humidity	10–90% non-condensing	10–90% non-condensing	10–90% non-condensing
Air-Flow Direction	side-to-back	side-to-back	side-to-back
Certification and Compliance			
	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2		
Warranty			
Fortinet Warranty	Limited lifetime** warranty on all models		

* POE models power consumption is similar to non-POE model if POE is not in use
** Fortinet Warranty Policy: http://www.fortinet.com/doc/legal/EULA.pdf

Figure 6: Comprehensive specifications table comparing different FortiSwitch models, including the 124F-POE.

FortiSwitch 124F-POE Key Specifications

Feature	Value
Model Number	FS-124F-POE
Switch Type	Managed PoE
Number of Ports	24
Maximum Power (PoE Budget)	185 Watts

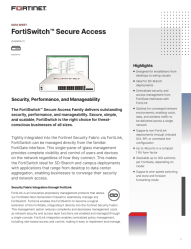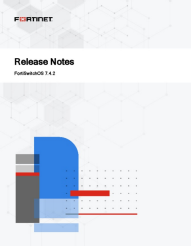| Feature	Value
Voltage	48 Volts (DC)
Interface Type	RJ45, PoE
Case Material	Plastic
Item Weight	10.05 pounds
Package Dimensions	21.22 x 13.98 x 4.13 inches
Operating Temperature	32-113°F (0-45°C)
Storage Temperature	-4-158°F (-20-70°C)
Humidity	10-90% non-condensing
UPC	195875000696

8. WARRANTY AND SUPPORT

Fortinet products typically come with a limited lifetime warranty on all models. For specific warranty details and terms, please refer to the official Fortinet warranty policy document available on their website.

For technical support, product registration, and access to the latest documentation and software downloads, please visit the official Fortinet support portal or their brand store on Amazon: Fortinet Amazon Store.

Related Documents - FS-124F-POE

FORTINET. FortiSwitch 124F Series FS-124F, FS-124F-PoE, FS-124F-FPoE QuickStart Guide	**FortiSwitch 124F Series QuickStart Guide** A quick start guide for the FortiSwitch 124F, FS-124F-PoE, and FS-124F-FPoE series, covering installation, setup, and basic connections.
FORTINET. FortiSwitch 124F Series FS-124F, FS-124F-POE, FS-124F-FPOE QuickStart Guide	**FortiSwitch 124F Series QuickStart Guide** QuickStart Guide for Fortinet FortiSwitch 124F, FS-124F-POE, and FS-124F-FPOE series switches, covering installation, setup, and management.

	[FortiSwitchOS 7.6.1 Release Notes](#) Release notes for FortiSwitchOS version 7.6.1, detailing new features, resolved issues, known issues, and upgrade information for Fortinet FortiSwitch devices.
	[FortiSwitch Secure Access Series Data Sheet	Fortinet](#) Explore the FortiSwitch Secure Access Series from Fortinet, offering high-performance, secure, and manageable network switches designed for businesses of all sizes. Learn about features, specifications, and deployment options.
	[FortiSwitchOS 7.2.6 Release Notes](#) This document provides release notes for FortiSwitchOS 7.2.6, detailing new features, supported models, special notices, upgrade information, product integration, resolved issues, and known issues.
	[FortiSwitchOS 7.4.2 Release Notes](#) This document provides release notes for FortiSwitchOS version 7.4.2, detailing new features, supported models, upgrade information, product integration, resolved issues, and known issues.