

FORTINET FS-424E-FIBER

FORTINET Fortiswitch 424E-FIBER Ethernet Switch User Manual

Model: FS-424E-FIBER

1. INTRODUCTION

This user manual provides essential information for the proper installation, configuration, and operation of the FORTINET Fortiswitch 424E-FIBER Ethernet Switch. Please read this manual thoroughly before using the device to ensure optimal performance and safety.

1.1 Product Overview

The FortiSwitch 424E-FIBER is a high-performance Layer 2/3 Ethernet switch designed for enterprise networks. It features 24 Gigabit Ethernet SFP ports and 4 10 Gigabit Ethernet SFP+ uplinks, offering flexible connectivity and high-speed data transfer. This switch is compatible with FortiGate switch controllers, enabling centralized management and integration into a Fortinet security fabric.

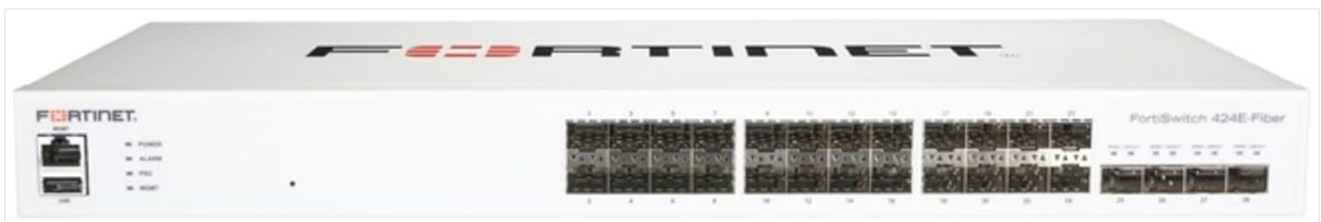


Figure 1: Front view of the FORTINET Fortiswitch 424E-FIBER Ethernet Switch, showing the Fortinet logo, status LEDs, console port, USB port, 24 SFP ports, and 4 SFP+ uplink ports.

2. KEY FEATURES

- **Port Configuration:** 24 x Gigabit Ethernet SFP ports for flexible fiber connectivity.
- **Uplink Ports:** 4 x 10 Gigabit Ethernet SFP+ uplinks for high-speed network aggregation.
- **Layer 2/3 Switching:** Supports advanced Layer 2 and Layer 3 switching capabilities.
- **FortiGate Compatibility:** Designed to integrate seamlessly with FortiGate security appliances for unified management.
- **Robust Design:** Durable appliance suitable for various network environments.

3. SAFETY INFORMATION

Please observe the following safety precautions to prevent injury and damage to the device:

- Ensure the device is installed in a well-ventilated area to prevent overheating.
- Use only the power adapter supplied with the device or a Fortinet-approved replacement.
- Do not expose the device to water or excessive humidity.
- Avoid placing the device near heat sources or in direct sunlight.
- Do not open the device casing. Refer all servicing to qualified personnel.
- Ensure proper grounding for electrical safety.

4. SETUP AND INSTALLATION

4.1 Package Contents

Verify that your package contains the following items:

- FORTINET Fortiswitch 424E-FIBER Unit
- Power Cord
- Rackmount Kit (if included)
- Quick Start Guide

4.2 Physical Installation

1. **Rack Mounting (Optional):** If rack mounting, attach the provided rackmount ears to the sides of the switch using the screws. Secure the switch into a standard 19-inch equipment rack.
2. **Desktop Placement:** If placing on a desktop, ensure a stable, flat surface with adequate ventilation around the device.
3. **Connect Power:** Connect the power cord to the power inlet on the rear of the switch and then to a grounded electrical outlet.
4. **Power On:** The switch will power on automatically once connected to power. Observe the LED indicators on the front panel.

4.3 Network Connection

1. **SFP Ports:** Insert compatible SFP transceivers into the 24 Gigabit Ethernet SFP ports. Connect fiber optic cables from your network devices to these transceivers.
2. **SFP+ Uplink Ports:** Insert compatible SFP+ transceivers into the 4 10 Gigabit Ethernet SFP+ uplink ports. Connect fiber optic cables to your core network or other high-speed devices.
3. **Console Port (Optional):** For initial configuration or troubleshooting, connect a console cable (RJ-45 to DB-9) from the switch's console port to a computer.

5. OPERATING THE SWITCH

5.1 LED Indicators

The front panel of the FortiSwitch 424E-FIBER features several LED indicators to provide status information:

- **Power LED:** Indicates the power status of the device. (Typically green for normal operation).
- **Alarm LED:** Indicates system alarms or errors. (Typically red or amber for issues).
- **PSU LED:** Indicates the status of the power supply unit.
- **MGMT LED:** Indicates management port activity.
- **Port LEDs:** Each SFP/SFP+ port has an LED indicating link status and activity.

Refer to the FortiSwitch documentation for detailed descriptions of LED behavior and troubleshooting based on their status.

5.2 Initial Configuration

Initial configuration of the FortiSwitch is typically performed via the FortiGate switch controller or through the command-line interface (CLI) via the console port. For detailed configuration steps, refer to the FortiSwitch Administration Guide available on the Fortinet support website.

6. MAINTENANCE

- **Cleaning:** Regularly clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure ventilation openings are free from dust and obstructions.
- **Firmware Updates:** Keep the switch firmware updated to the latest version to ensure optimal performance, security, and access to new features. Firmware updates are typically managed through the FortiGate controller or downloaded from the Fortinet support portal.
- **Environmental Checks:** Periodically check the operating environment to ensure it remains within recommended temperature and humidity ranges.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	No power, faulty power cord, or power supply issue.	Check power cord connection. Verify power outlet functionality. Ensure power supply unit (PSU) is functioning.
No link light on a connected port.	Incorrect SFP/SFP+ transceiver, faulty cable, or connected device issue.	Ensure correct and compatible SFP/SFP+ transceiver is used. Check fiber optic cable for damage. Verify the connected device is powered on and configured correctly.
Slow network performance.	Network congestion, duplex mismatch, or faulty cable.	Check network traffic. Verify duplex settings on both ends of the connection. Replace suspected faulty cables.
Cannot access the switch for management.	Incorrect IP address, network connectivity issue, or firewall blocking access.	Verify the switch's IP address and network settings. Check network connectivity between the management station and the switch. Ensure no firewall rules are blocking access.

8. SPECIFICATIONS

Attribute	Detail
Model Number	FS-424E-FIBER
Brand	FORTINET
Manufacturer	Fortinet
Number of Ports	24 x GE SFP, 4 x 10 GE SFP+
Interface Type	SFP, SFP+
Product Dimensions	10.1 x 17.3 x 1.7 inches (25.65 x 43.94 x 4.32 cm)
Item Weight	5.62 pounds (2.55 kg)
UPC	842382166925
Country of Origin	CHINA

9. WARRANTY AND SUPPORT

9.1 Product Warranty

FORTINET products typically come with a limited hardware warranty. The specific terms and duration of the warranty may vary by region and product. Please refer to the warranty information included with your product or visit the official Fortinet website for detailed warranty policies. Keep your proof of purchase for warranty claims.

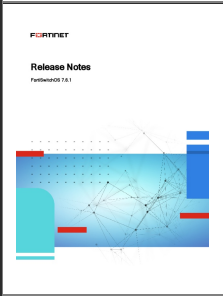
9.2 Technical Support

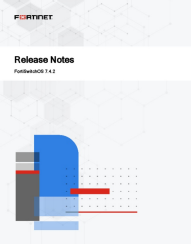
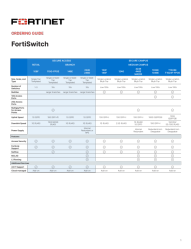
For technical assistance, product documentation, and software downloads, please visit the official Fortinet support portal. You may need your product's serial number for support inquiries.

- **Fortinet Support Website:** support.fortinet.com
- **Fortinet Documentation:** docs.fortinet.com

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Related Documents - FS-424E-FIBER

	FortiSwitch 424E Series QuickStart Guide This guide provides instructions for installing and setting up the FortiSwitch 424E Series, including models FS-424E, FS-424E-Fiber, FS-424E-POE, and FS-424E-FPOE. It covers box contents, port descriptions, LED indicators, device installation (rack-mount and flat surface), SFP transceiver installation and removal, internet connection, web browser access, terminal emulation, FortiLink connection, and cloud management.
	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 7.6.1 Release Notes Release notes for FortiSwitchOS version 7.6.1, detailing new features, resolved issues, known issues, and upgrade information for Fortinet FortiSwitch devices.

	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.
	FortiSwitch Ordering Guide - Fortinet Network Switches This guide provides detailed ordering information for Fortinet's FortiSwitch product line, covering various models for retail, branch, campus, data center, and industrial environments. It includes specifications, port configurations, power supply options, and transceiver compatibility.

Documents - FORTINET – FS-424E-FIBER



[FortiSwitch 424E Series QuickStart Guide](#)

This guide provides instructions for installing and setting up the FortiSwitch 424E Series, including models FS-424E, FS-424E-Fiber, FS-424E-POE, and FS-424E-FPOE. It covers box contents, port descriptions, LED indicators, device installation (rack-mount and flat surface), SFP transceiver installation and removal, internet connection, web browser access, terminal emulation, FortiLink connection, and cloud management.

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lang:en score:45 filesize: 2.8 M page_count: 12 document date: 2019-12-12

FortiSwitch		Product Offerings	
Model	Product	Model	Product
FS-424E	FS-424E	FS-424E	FS-424E
FS-424E-Fiber	FS-424E-Fiber	FS-424E-Fiber	FS-424E-Fiber
FS-424E-POE	FS-424E-POE	FS-424E-POE	FS-424E-POE
FS-424E-FPOE	FS-424E-FPOE	FS-424E-FPOE	FS-424E-FPOE

[FortiSwitch Ordering Guide: Product Offerings and Specifications](#)

Comprehensive ordering guide for Fortinet FortiSwitch network switches, detailing product offerings, specifications, order codes, licenses, and accessories.

lang:en score:40 filesize: 1016.79 K page_count: 3 document date: 2022-07-21



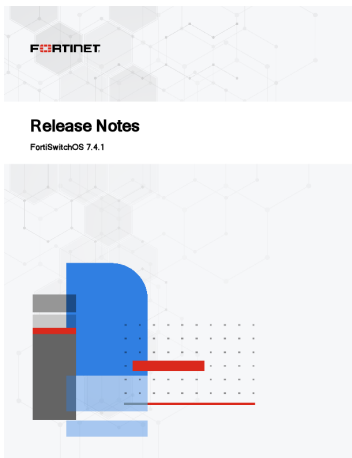
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FortiSwitch. To access: Cloud Management FortiGuard Updates Firmware Upgrades
Technical Support Warranty Coverage Please register ...

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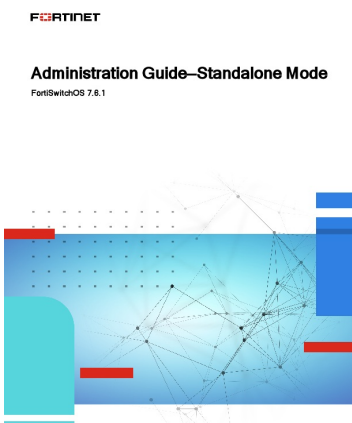


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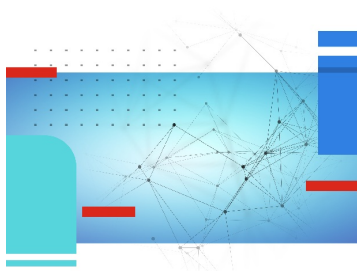
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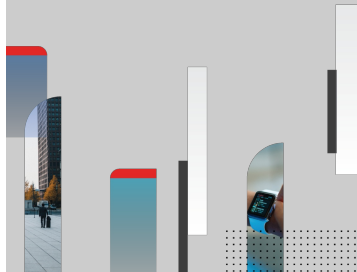
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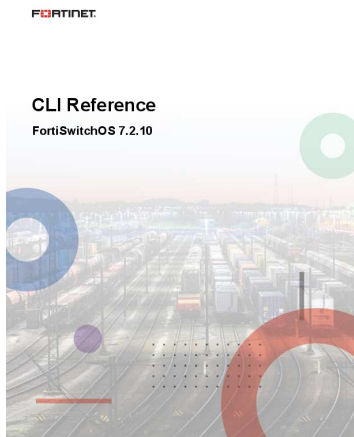
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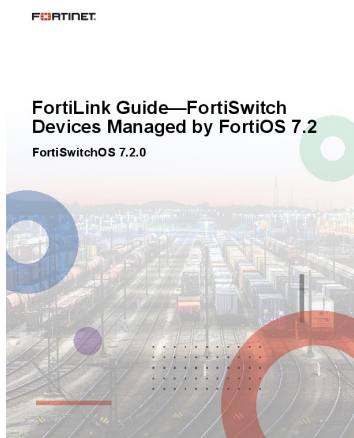
lang:en score:32 filesize: 2.91 M page_count: 13 document date: 2021-11-18



[FortiSwitchOS 7.2.10 CLI Reference Guide](#)

This document provides a comprehensive guide to the Command Line Interface (CLI) commands for FortiSwitch devices running FortiSwitchOS version 7.2.10. It details commands for configuring, managing, and troubleshooting network devices.

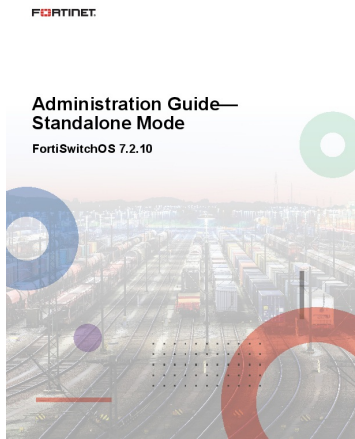
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[FortiLink Guide for FortiSwitch Devices Managed by FortiOS 7.2](#)

This guide details the configuration and management of FortiSwitch devices using FortiOS 7.2 via FortiLink, covering network topologies, MCLAG, VLANs, STP, PoE, and security features for robust network infrastructure.

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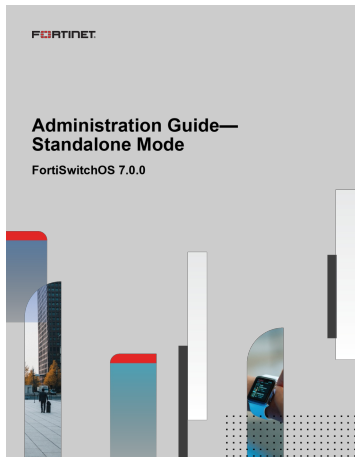


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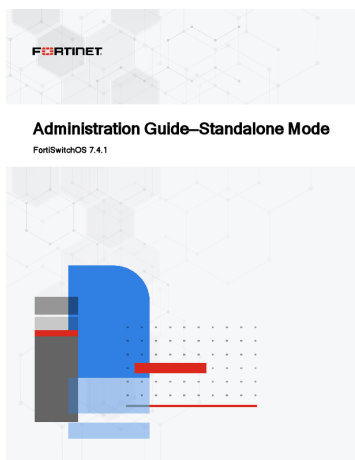


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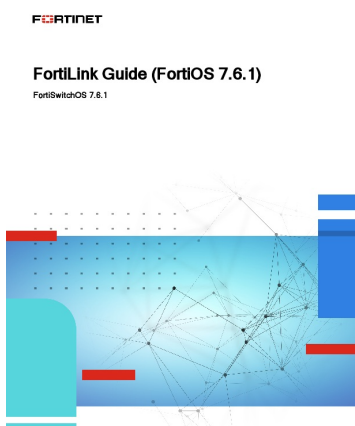


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lang:en **score:29** filesize: 6.24 M page_count: 469 document date: 2023-09-21



[FortiSwitchOS 7.6.1 FortiLink Guide: Network Management and Configuration](#)

This guide details the integration and management of FortiSwitch units with FortiGate devices using the FortiLink protocol for FortiOS 7.6.1 and FortiSwitchOS 7.6.1. It covers network topology, security features, VLANs, and advanced configurations.

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Administration Guide

FortiSwitch Manager 7.2.0



[FortiSwitch Manager 7.2.0 Administration Guide](#)

Administration Guide for FortiSwitch Manager 7.2.0, detailing setup, configuration, management, security, and operational maintenance of FortiSwitch devices.

lang:en **score:28** filesize: 6.61 M page_count: 132 document date: 2022-05-18

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FortiSwitchOS 7.2.5



[FortiSwitchOS 7.2.5 Administration Guide - Standalone Mode](#)

This administration guide provides comprehensive instructions for configuring and managing FortiSwitch units in standalone mode, covering system, network, switch, and administrator configurations for FortiSwitchOS version 7.2.5.

lang:en **score:28** filesize: 5.41 M page_count: 418 document date: 2024-03-07

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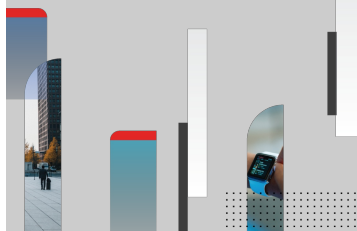
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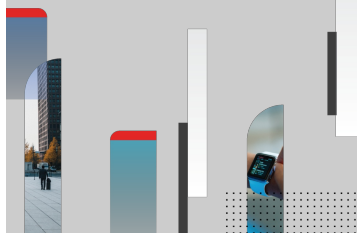
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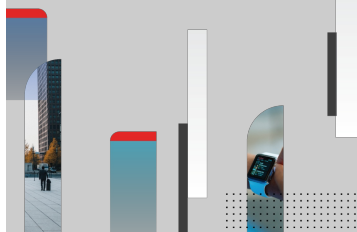
lang:en score:28 filesize: 4.77 M page_count: 374 document date: 2025-02-26

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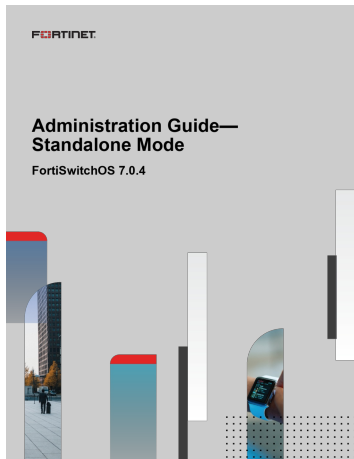
lang:en score:28 filesize: 4.77 M page_count: 373 document date: 2024-03-13

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lang:en score:28 filesize: 4.77 M page_count: 371 document date: 2023-07-28



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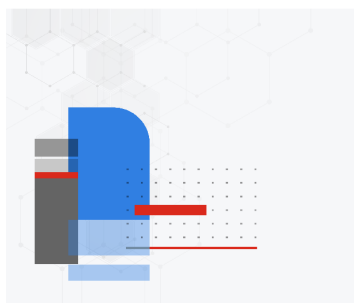
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lang:en score:28 filesize: 5.12 M page_count: 371 document date: 2022-06-30



FortiLink Guide (FortiOS 7.4.2)

FortiSwitchOS 7.4.2



[FortiLink Guide for FortiOS 7.4.2: Network Switch Management](#)

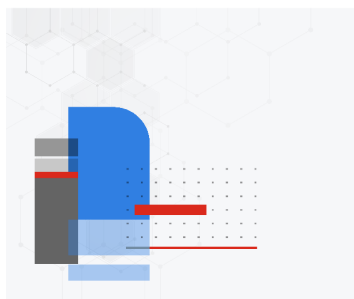
Comprehensive guide to configuring and managing FortiSwitch units with FortiGate devices using FortiLink and FortiOS 7.4.2. Covers setup, VLANs, MCLAG, PoE, and more.

lang:en score:28 filesize: 9.86 M page_count: 301 document date: 2023-12-20



FortiLink Guide (FortiOS 7.4.4)

FortiSwitchOS 7.4.3



[FortiLink Guide \(FortiOS 7.4.4\) - Fortinet](#)

Comprehensive guide to configuring and managing FortiSwitch units with FortiLink using FortiOS 7.4.4. Covers setup, network topologies, security features, and advanced configurations for Fortinet networking solutions.

lang:en score:28 filesize: 10.26 M page_count: 328 document date: 2024-05-07

Administration Guide— Standalone Mode

FortiSwitchOS 7.2.3



[FortiSwitchOS 7.2.3 Administration Guide - Standalone Mode](#)

This comprehensive administration guide details the configuration and management of Fortinet FortiSwitch devices operating with FortiSwitchOS version 7.2.3 in standalone mode. It is an essential resource for network administrators seeking to optimize their network infrastructure. Discover detailed information on system setup, network configuration, advanced switching functionalities, security protocols, and troubleshooting procedures.

lang:en score:28 filesize: 9.92 M page_count: 418 document date: 2023-04-10

Administration Guide— Standalone Mode

FortiSwitchOS 7.2.4



[\[pdf\] Guide](#)

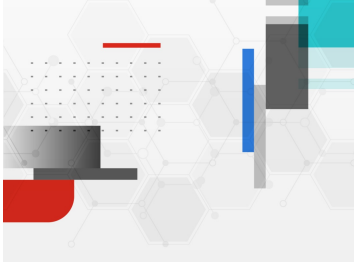
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lang:en score:28 filesize: 9.91 M page_count: 418 document date: 2023-05-10

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FortiSwitch Manager 7.2.7



[\[pdf\] User Manual Quick Start Guide Guide](#)

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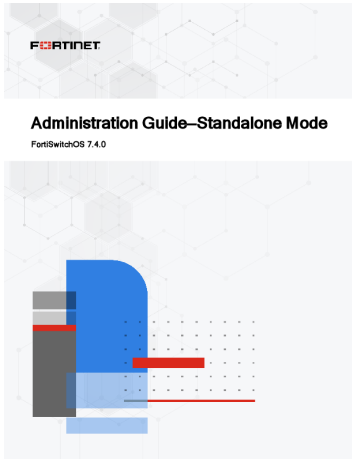
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lang:en score:28 filesize: 1.84 M page_count: 179 document date: 2025-08-20

[FortiSwitch Compatible Transceivers and Cables](#)

A comprehensive guide detailing the compatibility of various transceivers and direct-attach/split cables with FortiSwitch models, including FS-series, FG-series, and FR-series transceivers.

lang:i-klngon score:28 filesize: 369.26 K page_count: 7 document date: 2023-03-16



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lang:en **score:28** filesize: 6.06 M page_count: 458 document date: 2023-08-02



[FortiLink Guide: FortiOS 7.4.6 and FortiSwitchOS 7.4.5 Configuration](#)

A comprehensive technical guide for configuring FortiSwitch units with FortiLink, detailing setup, management, and optimization using FortiOS 7.4.6 and FortiSwitchOS 7.4.5.

lang:en **score:28** filesize: 10.27 M page_count: 328 document date: 2024-12-10



[FortiLink Guide for FortiOS 7.4.5 and FortiSwitchOS 7.4.3](#)

Comprehensive guide detailing the configuration and management of FortiSwitch units using FortiLink with FortiOS 7.4.5 and FortiSwitchOS 7.4.3, covering network topologies, features, and best practices.

lang:en **score:28** filesize: 10.26 M page_count: 327 document date: 2024-11-01



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lang:en **score:28** filesize: 2.27 M page_count: 178 document date: 2024-12-09

FortiLink Guide—FortiSwitch Devices Managed by FortiOS 7.2

FortiSwitchOS 7.2.9



[FortiLink Guide: FortiSwitch Devices Managed by FortiOS 7.2](#)

A comprehensive guide to managing FortiSwitch devices using FortiOS 7.2, covering configuration, features, and best practices for network integration.

lang:en **score:28** filesize: 9 M page_count: 253 document date: 2024-09-19

FortiLink Guide—FortiSwitch Devices Managed by FortiOS 7.2

FortiSwitchOS 7.2.4



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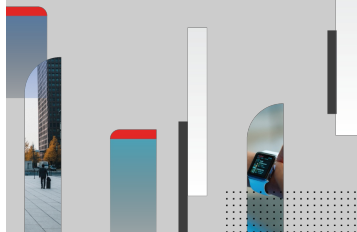
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lang:en **score:28** filesize: 11.06 M page_count: 244 document date: 2023-02-06

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FortiSwitchOS 7.0.3



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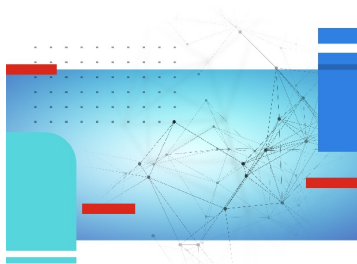
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lang:en **score:28** filesize: 5.12 M page_count: 372 document date: 2023-03-09

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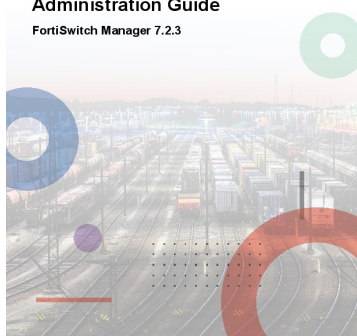
FortiSwitchOS 7.6.1


[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.
lang:en score:28 filesize: 819.64 K page_count: 15 document date: 2025-01-15

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FortiSwitch Manager 7.2.3

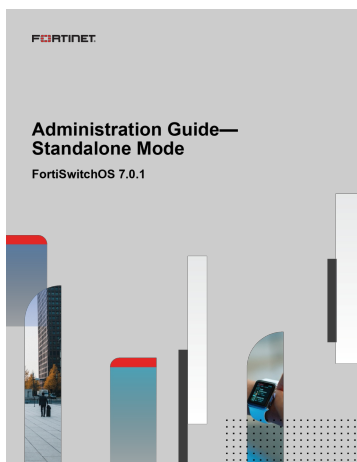

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lang:en score:27 filesize: 2.18 M page_count: 148 document date: 2023-10-18

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FortiSwitchOS 7.0.1

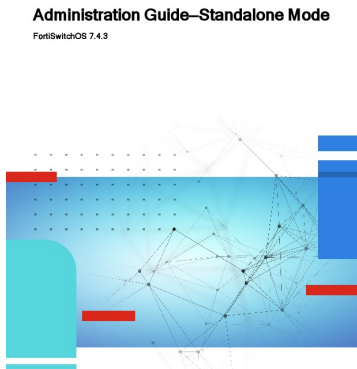

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lang:en score:27 filesize: 5.11 M page_count: 360 document date: 2022-06-13

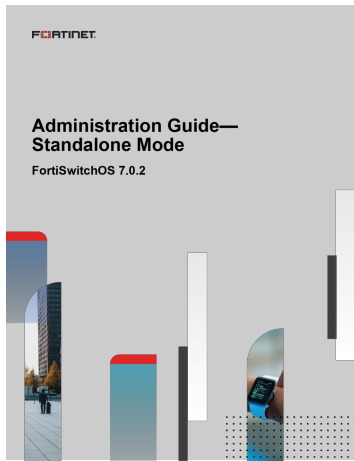
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FortiSwitchOS Administration Guide—Standalone Mode 7 4 3 Fortinet Inc start administrating your
FortiSwitch unit it is assumed that you have completed the initial configuration of as outlined in fortinetweb
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lang:en score:27 filesize: 6.87 M page_count: 501 document date: 2024-04-22



[FortiSwitchOS 7.0.2 Administration Guide: Standalone Mode](#)

Comprehensive guide for configuring FortiSwitch devices running FortiSwitchOS 7.0.2 in standalone mode, covering system, network, security, and advanced features.

lang:en **score:27** filesize: 5.16 M page_count: 368 document date: 2023-03-09



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lang:en **score:26** filesize: 818.47 K page_count: 16 document date: 2024-11-27



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lang:en **score:26** filesize: 841.54 K page_count: 18 document date: 2024-09-27



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lang:en score:26 filesize: 478.86 K page_count: 16 document date: 2024-04-09

FortiSwitchOS 7.6.0 Feature Matrix

A comprehensive feature matrix detailing the capabilities and supported features across various FortiSwitch models running FortiSwitchOS version 7.6.0.

lang:en score:26 filesize: 515.26 K page_count: 13 document date: 2024-08-14