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CISCO DESIGNED MS225-24P-HW

CISCO DESIGNED Meraki Cloud Managed MS225-24P Series 24 Port Gigabit Switch User Manual

Model: MS225-24P-HW

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your CISCO DESIGNED Meraki MS225-24P Series 24 Port Gigabit Switch. This cloud-managed switch is designed to provide high-performance network connectivity with Power over Ethernet (PoE) capabilities, ideal for various business environments. Please read this manual thoroughly before using the device to ensure proper setup and functionality.

Key Features

- 24 Port Gigabit Ethernet for high-speed wired connections.
- 4x SFP Uplinks for high-bandwidth fiber connectivity.
- Layer 3 capabilities for advanced routing and network segmentation.
- 80G Physical Stacking for increased port density and simplified management.
- Non-Blocking Switch Fabric ensures full wire-speed performance across all ports.
- Voice and Video QoS (Quality of Service) for prioritizing critical traffic.
- Supports Cisco Redundant Power System for enhanced reliability.
- Cloud Management, Monitoring, and Diagnostics via the Meraki dashboard.
- Email and Text Message Alerts for proactive issue notification.
- 370W Power Over Ethernet (PoE) budget to power connected devices like IP phones and wireless access points.

Package Contents

Information regarding the exact contents of the product box is not available. Typically, the package includes the MS225-24P switch unit, a power cord, and rack-mounting hardware. Please verify the contents upon unboxing.

Setup Guide

Physical Installation

Follow these steps to physically install your Meraki MS225-24P switch:

1. **Unpack the Switch:** Carefully remove the switch from its packaging. Inspect for any signs of damage during transit.
2. **Choose a Location:** Select a suitable location for the switch, preferably in a server rack or on a stable surface. Ensure adequate ventilation around the device to prevent overheating.
3. **Mounting (Optional):** If rack-mounting, attach the provided rack-mount ears to the sides of the switch using the included screws. Secure the switch into your server rack.
4. **Connect Power:** Plug the power cord into the power input on the rear of the switch, then connect it to a grounded electrical outlet.
5. **Connect Network Cables:** Connect your network devices (computers, access points, IP cameras, etc.) to the Gigabit Ethernet ports on the front of the switch using standard Ethernet cables. For high-speed uplinks, connect SFP+ transceivers and fiber optic cables to the SFP+ ports.



This image displays the front panel of the CISCO DESIGNED Meraki MS225-24P switch, featuring 24 Gigabit Ethernet ports and 4 SFP uplink interfaces.

Initial Configuration

The Meraki MS225-24P switch is cloud-managed. To begin configuration:

1. **Access Meraki Dashboard:** Open a web browser and navigate to the Meraki dashboard (dashboard.meraki.com). Log in with your Meraki account credentials. If you do not have an account, you will need to create one.
2. **Add Device:** In the dashboard, navigate to the 'Network-wide' > 'Add devices' section. Enter the serial number of your MS225-24P switch, which can be found on the device label.
3. **Assign to Network:** Assign the switch to an existing Meraki network or create a new one.
4. **Automatic Provisioning:** Once added, the switch will automatically connect to the Meraki cloud, download its configuration, and begin operating.

Operating Instructions

Cloud Management

All management and monitoring of the MS225-24P switch are performed through the intuitive Meraki cloud dashboard. From the dashboard, you can:

- Configure VLANs and Layer 3 routing.
- Monitor port status, traffic, and PoE usage.
- Apply Quality of Service (QoS) policies.
- Perform firmware upgrades.
- View network topology and client details.
- Set up email and SMS alerts for critical events.

Port Usage

The switch features 24 1GbE (Gigabit Ethernet) ports for connecting standard network devices. These ports support auto-negotiation for speed and duplex settings. The 4 SFP+ (Small Form-Factor Pluggable Plus) uplink interfaces are designed for high-speed fiber connections, typically used for connecting to core switches or other network segments requiring higher bandwidth.

Power over Ethernet (PoE)

The MS225-24P provides 370W of Power over Ethernet (PoE) across its 24 Gigabit Ethernet ports. This allows you to power PoE-compatible devices such as IP phones, wireless access points, and security cameras directly through the Ethernet cable, eliminating the need for separate power outlets for these devices. PoE status and power consumption can be monitored via the Meraki dashboard.

Maintenance

Firmware Updates

Firmware updates for the Meraki MS225-24P switch are managed automatically through the Meraki cloud. You can schedule maintenance windows for updates via the dashboard to minimize disruption to your network operations. This ensures your switch always runs the latest software with the most recent features and security patches.

Cleaning

To maintain optimal performance and extend the lifespan of your switch, periodically clean the exterior with a soft, dry cloth. Ensure the ventilation openings are free from dust and debris. Do not use liquid cleaners or aerosol sprays directly on the device.

Troubleshooting

If you encounter issues with your MS225-24P switch, consider the following common troubleshooting steps:

- **No Power:** Ensure the power cord is securely connected to both the switch and a working electrical outlet. Check the power LED on the switch.
- **No Network Connectivity:** Verify that Ethernet cables are properly connected to the correct ports. Check the link/activity LEDs on the ports. Ensure the switch has an active internet connection to reach the Meraki cloud.
- **Device Not Appearing in Dashboard:** Confirm the serial number was entered correctly when adding the device. Ensure the switch has an active internet connection and can communicate with the Meraki cloud.
- **PoE Device Not Powering On:** Check the PoE status in the Meraki dashboard for the specific port. Ensure the connected device is PoE-compatible and that the switch's total PoE budget is not exceeded.
- **Slow Performance:** Check for high traffic utilization on ports via the dashboard. Ensure there are no network loops.

For more detailed troubleshooting or persistent issues, refer to the online Meraki documentation or contact Cisco Meraki support.

Specifications

Attribute	Value
Item Weight	8.2 pounds
Voltage	48 Volts

Attribute	Value
Case Material	Metal
Lower Temperature Rating	1 Degrees Celsius
Maximum Power	370 Watts
Number of Layers	1
Upper Temperature Rating	1 Degrees Celsius
Interface Type	PoE, SFP
Data Transfer Rate	128 Gigabits Per Second
Current Rating	1 Amps
Manufacturer	CISCO
UPC	810979012825 098379214838 728350938025
Wireless Type	802.11ab
Product Dimensions	19.08 x 9.84 x 1.72 inches
Color	White
Number of Ports	24

Warranty and Support

For information regarding the warranty coverage for your CISCO DESIGNED Meraki MS225-24P switch, please refer to the official Cisco Meraki website or the documentation provided at the time of purchase. Technical support is available through your Meraki dashboard or by contacting Cisco Meraki support directly. Ensure you have your device's serial number ready when seeking support.

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