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CISCO DESIGNED MS120-24P-HW

CISCO DESIGNED Meraki MS120-24P Ethernet Switch User Manual

Model: MS120-24P-HW

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your CISCO DESIGNED Meraki MS120-24P Ethernet Switch. Please read this manual thoroughly before using the device to ensure proper functionality and safety.

The Cisco Meraki MS120 series offers Layer 2 access switching, designed for both branch and campus network deployments. This series includes various power options to accommodate diverse deployment needs, with models providing up to 740W of power across different port densities, including SFP capable uplinks. The MS120 line is engineered to support current and future wireless infrastructure deployments in various environments.

2. Safety Information

Always observe the following safety precautions:

- Ensure the device is installed in a well-ventilated area to prevent overheating.
- Do not expose the device to moisture or extreme temperatures.
- Use only the power supply provided or specified by the manufacturer.
- Disconnect power before performing any maintenance or installation procedures.
- This device is intended for indoor use only.

3. Package Contents

Verify that all items are present in your package:

- CISCO DESIGNED Meraki MS120-24P Ethernet Switch
- 5-Year Enterprise License
- Power cable (may vary by region)



Figure 3.1: Front view of the CISCO DESIGNED Meraki MS120-24P Ethernet Switch, showing 24 Ethernet ports and SFP uplinks.

4. Setup and Installation

Follow these steps to set up your MS120-24P Ethernet Switch:

1. **Mounting the Switch:**

   The MS120-24P is designed for rack-mounting. Secure the switch in a standard 19-inch equipment rack using appropriate rack-mount brackets (not always included, check package contents).

2. **Connecting Power:**

   Connect the provided power cable to the power input on the rear of the switch and then to a suitable AC power outlet. Ensure the power source meets the switch's power requirements.

3. **Network Connections:**

   Connect your network devices (computers, access points, servers) to the RJ45 Ethernet ports on the front of the switch using standard Ethernet cables. For high-speed uplinks, use the SFP ports with compatible SFP transceivers

and fiber optic cables.



Figure 4.1: Detailed view of the Ethernet and SFP ports on the MS120-24P switch, illustrating connectivity options.

4. **Cloud Management Setup:**

   The Meraki MS120-24P is cloud-managed. Access the Cisco Meraki Dashboard (dashboard.meraki.com) to register your device and configure network settings. Refer to the Meraki documentation for detailed cloud setup instructions.

5. Operating the Switch

The MS120-24P operates primarily through the Cisco Meraki Dashboard, offering centralized control and monitoring.

5.1 Key Features and Capabilities

- Managed via Cisco Meraki Dashboard for remote configuration and monitoring.
- Remote Packet Capture Tools accessible through the Meraki Dashboard.
- Automatic Firmware upgrades ensure the switch always runs the latest software.
- SNMP/Syslog Integration for network monitoring and logging.
- IPv4/6 ACL support for robust network security.
- 802.1q VLAN tagging for network segmentation.
- DHCP Snooping to prevent rogue DHCP servers.
- 802.1X Authentication for secure network access.
- 10/100/1000 Mbps RJ45 ports for standard Ethernet connections.
- 4x 1000 Mbps SFP models available for fiber uplinks.
- PoE and PoE+ models available for powering compatible devices.

5.2 LED Indicators

The front panel of the switch features LED indicators to provide status information:

- **System LED:** Indicates the overall status of the switch (e.g., solid green for normal operation, blinking for firmware upgrade).
- **Port LEDs:** Each Ethernet port has an LED indicating link status and activity (e.g., solid green for link, blinking for activity).

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your MS120-24P switch.

- **Cleaning:** Periodically 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:** Firmware updates are handled automatically via the Meraki Dashboard. Ensure your switch has a stable internet connection for these updates.
- **Environmental Conditions:** Maintain the operating environment within specified temperature and humidity ranges to prevent damage.

7. Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Switch not powering on	No power, faulty power cable, power supply issue	Check power cable connection, try a different power outlet, ensure power supply is functional.
No network connectivity on a port	Incorrect cable, faulty cable, port disabled, device issue	Verify cable connection, try a different cable, check port status in Meraki Dashboard, ensure connected device is operational.
Switch not appearing in Meraki Dashboard	No internet connection, incorrect network settings, device not registered	Ensure the switch has internet access, verify network configuration, confirm the device is registered to your Meraki organization.

For more advanced troubleshooting, refer to the Cisco Meraki documentation or contact Meraki support.

8. Specifications

Feature	Detail
Model Number	MS120-24P-HW
Brand	CISCO DESIGNED
Switch Type	Access Switch
Number of Ports	24 (RJ45) + 4 (SFP)
Data Transfer Rate	56 Gigabits Per Second (Switching Capacity)
Interface Type	PoE / PoE+
Maximum Power Consumption	370 Watts (PoE Budget)
Item Weight	11.53 pounds
Package Dimensions	22.42 x 14.26 x 4.61 inches
UPC	609378725739, 739420053685
First Available Date	October 12, 2017

9. Warranty Information

The CISCO DESIGNED Meraki MS120-24P Ethernet Switch typically comes with a manufacturer's warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the documentation included with your purchase or visit the official Cisco Meraki website. A 5-Year Enterprise License is included with this hardware.
Protection plans are also available for extended coverage:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly plan)

Note: Warranty terms and availability of protection plans may vary by region and retailer.

10. Support and Contact

For technical support, product inquiries, or additional resources, please contact Cisco Meraki support through their official channels. The Meraki Dashboard also provides direct access to support resources and documentation.
Online Resources:

- Cisco Meraki Documentation: documentation.meraki.com
- Cisco Meraki Support Portal: meraki.cisco.com/support

When contacting support, please have your device's serial number and model number (MS120-24P-HW) readily available.

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