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MODEL: MS120-48LP-HW

Introduction

This manual provides essential instructions for the setup, operation, maintenance, and troubleshooting of your CISCO DESIGNED Meraki MS120-48LP-HW 48-Port Cloud-Managed Ethernet Access Switch. The MS120-48LP-HW is a Gigabit access switch designed for robust network performance and simplified management through the Meraki cloud platform.

Key features include 48 Gigabit Ethernet ports with PoE+ support, 4 x 1G SFP uplink interfaces, non-blocking architecture with up to 104 Gbps bandwidth, Layer 2 Access Switching capabilities, and a 740-watt PoE budget with dynamic power allocation. The switch also offers 6 configurable QoS queues for optimized voice, video, and data applications.



Figure 1: Front view of the CISCO DESIGNED Meraki MS120-48LP-HW Switch.

Setup

1. Unpacking and Inspection

Carefully remove the switch from its packaging. Inspect the device for any signs of physical damage. Retain all packaging materials for future use or transport.

2. Physical Installation

- **Rack Mounting:** The MS120-48LP-HW is designed for standard 19-inch rack mounting. Secure the switch using appropriate rack-mount brackets and screws (sold separately or included with the switch). Ensure adequate ventilation around the unit.
- **Power Connection:** Connect the provided power cord to the AC power inlet on the rear of the switch and then to a grounded electrical outlet.

3. Network Connection

- **Uplink Ports:** Connect your network's uplink cables to the 1G SFP uplink interfaces on the switch. Use

compatible SFP transceivers as needed.

- **Device Connection:** Connect network devices (computers, access points, IP phones, cameras) to the 48 Gigabit Ethernet ports. The switch automatically detects and provides Power over Ethernet (PoE+) to compatible devices.

4. Cloud Management Setup

The Meraki MS120-48LP-HW switch is managed via the Meraki cloud platform. An active Meraki license is required and sold separately. To begin management:

1. Ensure the switch is powered on and connected to the internet via its uplink port.
2. Access the Meraki dashboard at dashboard.meraki.com using your Meraki account credentials.
3. Add the switch to your Meraki network using its serial number, which can be found on the device label.
4. Configure network settings, VLANs, QoS, and other features through the intuitive cloud dashboard.

Operating

1. Powering On and Off

- **Power On:** Once the power cord is connected, the switch will automatically power on.
- **Power Off:** To power off, disconnect the power cord from the electrical outlet.

2. LED Indicators

The front panel of the switch features LED indicators that 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).
- **PoE LED:** Indicates PoE status for ports providing power.

3. Cloud Dashboard Management

All configuration and monitoring of the MS120-48LP-HW switch are performed through the Meraki cloud dashboard. This includes:

- Monitoring port status, traffic, and PoE usage.
- Configuring VLANs, STP, and other Layer 2 features.
- Setting up Quality of Service (QoS) policies.
- Managing firmware updates and device reboots.

Maintenance

1. Firmware Updates

Firmware updates for the Meraki MS120-48LP-HW are automatically managed and deployed through the Meraki cloud dashboard. Administrators can schedule maintenance windows for these updates to minimize network disruption.

2. Cleaning

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

3. Environmental Conditions

Ensure the switch operates within its specified environmental limits. The recommended operating temperature is between 1°C and 40°C. Avoid exposing the device to excessive heat, humidity, or direct sunlight.

Troubleshooting

1. No Power

- Verify the power cord is securely connected to both the switch and a working electrical outlet.
- Check the power source (outlet, power strip) for functionality.

2. No Network Connectivity

- Check the port LEDs for link status. If no link, verify the Ethernet cable connection and the connected device.
- Ensure the uplink port is properly connected and configured in the Meraki dashboard.
- Confirm that the switch has an active Meraki license and is communicating with the cloud dashboard.

3. PoE Device Not Powering On

- Verify the connected device is PoE compatible.
- Check the PoE LED for the specific port.
- Ensure the switch's total PoE budget (740W) is not exceeded. Monitor PoE usage in the Meraki dashboard.
- Confirm PoE settings for the port in the Meraki dashboard.

4. Factory Reset

A factory reset can be performed if necessary. Refer to the Meraki documentation or support resources for the specific procedure, as this will erase all local configurations and revert the device to its default state.

Specifications

Feature	Specification
Model Number	MS120-48LP-HW
Number of Ports	48 Gigabit Ethernet, 4 x 1G SFP Uplink
PoE Support	PoE+ (IEEE 802.3at)
Maximum Power	740 Watts (PoE Budget)
Data Transfer Rate	104000 Megabits Per Second (104 Gbps)
Layer	Layer 2 Access Switching
Interface Type	PoE, SFP
Item Weight	12.7 Pounds (5.76 kg)
Product Dimensions	13.39 x 17.32 x 1.73 inches
Case Material	Metal
Operating Temperature	1°C to 40°C
Voltage	240 Volts

Feature	Specification
Current Rating	1 Amps

Warranty Information

This CISCO DESIGNED Meraki MS120-48LP-HW switch is covered by a manufacturer's warranty. Specific warranty terms and duration may vary by region and purchase agreement. Please refer to the official CISCO Meraki website or your point of purchase for detailed warranty information. Keep your proof of purchase for warranty claims.

Support

For technical assistance, product documentation, or further support, please visit the official Meraki documentation website or contact CISCO Meraki support directly. Ensure you have your device's serial number and Meraki organization ID ready when seeking support.

- **Online Documentation:** Access comprehensive guides and knowledge base articles.
- **Technical Support:** Contact Meraki support for advanced troubleshooting and assistance.