

Cisco Meraki MS220-8P-HW

Cisco Meraki MS220-8P-HW 8-Port PoE Managed Gigabit Ethernet Switch User Manual

Model: MS220-8P-HW

1. INTRODUCTION AND OVERVIEW

This manual provides comprehensive instructions for the setup, operation, and maintenance of the Cisco Meraki MS220-8P-HW 8-Port PoE Managed Gigabit Ethernet Switch. This device is designed for robust network connectivity, offering Power over Ethernet (PoE) capabilities for various network devices.

Please note that this is a renewed product, professionally inspected and tested to work and look like new. As indicated in the product title, this unit is supplied **unclaimed and without a license**. A valid Meraki license is required for full cloud management functionality.

2. PRODUCT FEATURES

The Cisco Meraki MS220-8P-HW switch offers a range of features designed for efficient and reliable network performance:

- Gigabit Access switching with 8 x 1GbE RJ45 ports and optional PoE/PoE+ support.
- 2 x 1G SFP uplink interfaces for high-speed fiber connectivity.
- Integrated power supply and fanless operation for quiet deployment.
- Non-blocking switch backplane with 20 Gbps bandwidth support, ensuring high data throughput.
- 124 watt PoE budget with PoE+ support and dynamic power allocation, ideal for powering access points, IP phones, security cameras, and other PoE-enabled devices.
- 8 dedicated QoS queues for converged voice, video, and data applications, prioritizing critical traffic.

3. PHYSICAL DESCRIPTION AND COMPONENTS

Familiarize yourself with the physical layout and components of the MS220-8P-HW switch.

3.1 Front Panel



Figure 1: Front view of the Cisco Meraki MS220-8P-HW switch. This image displays the eight Gigabit Ethernet RJ45 ports, labeled 1 through 8, which support Power over Ethernet (PoE). To the right, two SFP (Small Form-Factor Pluggable) uplink ports are visible, labeled SFP 9 and SFP 10. On the left, there is a 'Restore' button and an LED indicator. A label with text "Networking Equipment Cisco, MS220-8P-HW, 81827" is visible on the top surface.

The front panel features eight 1GbE RJ45 ports (1-8) with PoE/PoE+ capabilities, allowing you to connect and power compatible devices. Two 1G SFP uplink ports (9-10) are provided for fiber optic connections to your core network. A system LED indicator provides status information, and a 'Restore' button is available for factory reset operations. The label on the top surface includes the number **81827**, which may be part of the product's internal identification or asset tag.

3.2 Rear Panel



Figure 2: Rear view of the Cisco Meraki MS220-8P-HW switch. This image shows the AC power input socket on the right. On the left, a product label provides essential information including the Cisco Meraki logo, Model: MS220-8P-HW, Part No: 600-38109, Power specifications (100-240V, 50-60Hz, 2.0-1.0A), MAC address, and Serial Number (SN: Q2HP-CC4J-QWWR).

The rear panel houses the AC power input connector. A product label provides critical information such as the model number (MS220-8P-HW), part number, power requirements, MAC address, and serial number. Ensure the power supply used matches the specified voltage and frequency.

4. SETUP

Follow these steps to set up your Cisco Meraki MS220-8P-HW switch:

1. **Unpacking:** Carefully remove the switch from its packaging. Inspect for any signs of damage.
2. **Placement:** Place the switch on a stable, flat surface or mount it in a rack (mounting hardware not included). Ensure adequate ventilation around the device.
3. **Power Connection:** Connect the provided power cord to the AC power input on the rear panel of the switch and then to a suitable power outlet.
4. **Network Connections:**
 - Connect your network devices (computers, IP phones, access points) to the RJ45 ports (1-8) using standard Ethernet cables.
 - If using SFP modules for uplink, insert the compatible SFP modules into ports 9 and 10, then connect fiber optic cables.
 - Connect an uplink cable from one of the RJ45 or SFP ports to your router or main network switch.
5. **Initial Power On:** Once all connections are secure, power on the switch. The system LED will indicate the boot status.
6. **Meraki Cloud Claiming (Important):** Since this unit is unclaimed and without a license, you will need to claim it to your Meraki dashboard account and assign a valid license for full cloud management and functionality. Refer to the official Meraki documentation for detailed steps on claiming devices.

5. OPERATING INSTRUCTIONS

Once the switch is powered on and connected to your network, it will begin forwarding traffic. Its operation is primarily managed through the Cisco Meraki cloud dashboard.

- **LED Indicators:** Observe the system LED for operational status. Consult Meraki documentation for specific LED patterns and their meanings (e.g., solid green for normal operation, blinking for activity).
- **PoE Operation:** When PoE-compatible devices are connected to ports 1-8, the switch will automatically detect and provide power. Ensure the total power draw does not exceed the 124-watt PoE budget.
- **Cloud Management:** All configuration, monitoring, and troubleshooting are performed via the Meraki cloud dashboard. This includes port settings, VLAN configurations, QoS policies, and firmware updates.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your switch.

- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Do not use liquid cleaners or aerosols. Ensure ventilation openings are free from dust and obstructions.
- **Firmware Updates:** Firmware updates are typically managed automatically through the Meraki cloud dashboard. Ensure your switch has a stable internet connection to receive these updates.
- **Environmental Conditions:** Operate the switch within its specified temperature and humidity ranges to prevent overheating or damage.

7. TROUBLESHOOTING

If you encounter issues with your MS220-8P-HW switch, consider the following troubleshooting steps:

- **No Power:**
 - Verify the power cord is securely connected to both the switch and the power outlet.
 - Check if the power outlet is functional by plugging in another device.
- **No Network Connectivity:**
 - Ensure Ethernet cables are properly seated in both the switch ports and the connected devices.
 - Check the link/activity LEDs on the switch ports for activity.
 - Verify that the switch is claimed to your Meraki dashboard and has an active license.
 - Confirm that your upstream network devices (router, modem) are functioning correctly.
- **PoE Not Working:**
 - Ensure the connected device is PoE-compatible.
 - Check the PoE status in the Meraki dashboard for the specific port.
 - Verify that the total PoE power consumption does not exceed the 124-watt budget.
- **Switch Unresponsive / Factory Reset:** If the switch becomes unresponsive, you may need to perform a factory reset using the 'Restore' button on the front panel. Refer to Meraki documentation for the exact procedure, as this will erase all local configurations and unclaim the device from your dashboard.

8. SPECIFICATIONS

Key technical specifications for the Cisco Meraki MS220-8P-HW switch:

Attribute	Value
Model	MS220-8P-HW
Number of Ports	8 (RJ45 Gigabit Ethernet with PoE/PoE+) + 2 (SFP Gigabit Uplink)
Interface Type	PoE, RJ45, SFP
Maximum Power (PoE Budget)	124 Watts
Voltage	100-240 Volts (AC)
Manufacturer	Cisco Systems, Inc
Product Dimensions	9.06 x 8.66 x 1.73 inches
Item Weight	4.35 pounds
Case Material	Plastic
Color	Silver
Compatible Devices	Camera, Desktop, Laptop, Printer
Upper Temperature Rating	23 Degrees Celsius
UPC	786513131706

9. WARRANTY AND SUPPORT

As a renewed product, this Cisco Meraki MS220-8P-HW switch is backed by the [Amazon Renewed Guarantee](#). This means the product has been professionally inspected and tested to work and look like new. If you are not satisfied with your purchase, renewed products are eligible for replacement or refund under this guarantee.

The return policy for this specific purchase allows for replacement or refund within **90 days** of receipt.

Important Note: This product is sold **without a Meraki license**. For full cloud management and support from Cisco Meraki, a separate license must be purchased and associated with the device in your Meraki dashboard. Without a license, the device will not be fully functional or supported by Cisco Meraki directly.

For further assistance or to claim your device, please refer to the official Cisco Meraki documentation and support resources available on their website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question