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MS125 Overview and Specifications

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Overview

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Cisco Meraki MS125 switches provide Layer 2 access switching and 10G uplinks, ideal for branch and campus deployments. The MS125 series features a variety of power options designed to meet the diverse needs of branch and campus deployments.

With 5 different models, capable of providing up to 740W of power over a variety of port densities, including 10Gb SFP+ capable uplinks, the MS125 line is fully ready to support future wireless infrastructure deployments across a variety of different environments.



Features

Managed via Cisco Meraki Dashboard

- Remote Packet Capture Tools via Meraki Dashboard
- Automatic Firmware upgrades
- SNMP/Syslog Integration
- IPv4/6 ACL support
- 802.1Q VLAN tagging

Energy-Saving

- 802.1X Authentication
- 10/100/1000 Mbps RJ45
- 4x 1000/10000 Mbps SFP+ ports
- PoE and PoE+ models available for device level powering

Context and Comparisons

	MS120-24P	MS120-48FP	MS125-24P	MS125-48LP	MS125-48FP
1GbE RJ45	24	48	24	48	48
1GbE SFP	4	4	-		
10GbE SFP+	-	-	4	4	4
Dedicated Mgmt Interface	1	1	1	1	1
Max Switching Capacity	56 Gbps	104 Gbps	128Gbps	176 Gbps	176 Gbps
PoE/PoE+ Capable	Yes, 370W	Yes, 740W	Yes, 370W	Yes, 370 W	Yes, 740 W

Technical Breakdown

Hardware

	MS125-24	MS125-24P	MS125-48	MS125-48LP	MS125-48FP
1GbE RJ45	24	24	48	48	48
10GbE SFP+	4	4	4	4	4
Dedicated Mgmt Interface	1	1	1	1	1

	MS125-24	MS125-24P	MS125-48	MS125-48LP	MS125-48FP
PoE/PoE+ Capable	-	Yes, 370W	-	Yes, 370W	Yes, 740W
Switching Capacity	128Gbps	128Gbps	176 Gbps	176 Gbps	176 Gbps
Power Supply	Built-in	Built-in	Built-in	Built-in	Built-in

Physical

	MS125-24	MS125-24P	MS125-48	MS125-48LP	MS125-48FP
Mount Type	1U Rack Mount (Front)	1U Rack Mount (Front)	1U Rack Mount (Front)	1U Rack Mount (Front/ Mid)	1U Rack Mount (Front/ Mid)
Dimensions (h x w x d)	1.73 x 17.32 x 9.84 in (4.4 x 44 x 25cm)	1.73 x 17.32 x 9.84 in (4.4 x 44 x 25cm)	1.73 x 17.32 x 9.84 in (4.4 x 44 x 25 cm)	1.73 x 17.32 x 13.38 in (4.4 x 44 x 34 cm)	1.73 x 17.32 x 13.38 in (4.4 x 44 x 34 cm)
Weight	8.16 lb (3.7 kg)	9.26 lb (4.2 kg)	9.26 lb (4.2 kg)	11.9 lb (5.4 kg)	12.79 lb (5.8 kg)
Power Load (idle/ max)	10.3 / 25.6 W	25 / 426.1 W	21.7 / 42 W	40.2 / 439.8 W	52 / 845.4 W
Operating Temperature	32°F - 113 °F 0°C - 45°C	32°F - 113 °F 0°C - 45°C	32°F - 113 °F 0°C - 45°C	32°F - 113 °F 0°C - 45°C	32°F - 113 °F 0°C - 45°C
Humidity	5% to 95%	5% to 95%	5% to 95%	5% to 95%	5% to 95%

** MS125 support MA-SFP-10GB-ER between 0° - 35°C at 10,000 feet

Configuration

The basic initial configuration of the MS125 is just as simple as any other model of MS switch. The links below provide additional information and instructions relating to each step in getting the device setup and configured for the first time.

1. [Claim the device to an Organization on the Meraki Dashboard.](#)
 - a. If a Dashboard Organization does not yet exist, [Create one](#)

b. If a Network does not yet exist, [Create one first](#)

3. Physically connect the device to the local network
 - a. Connect one of the RJ45 ports to existing infrastructure to provide a temporary uplink
 - b. Power on the device and let it check in to the Dashboard
 - c. If necessary, configure a Static IP through the [Local Status Page](#) to allow it to communicate with the Meraki Dashboard
4. Allow the device to complete check-in and perform any initial firmware upgrades.
5. Finish configuring the device from the Meraki Dashboard.
 - a. [Manage local VLANs / Port configuration.](#)

Troubleshooting

The MS uses LEDs to inform the user of the device's status. When the device powers on, all the Internet LEDs flash twice. Additional functions are described below, from left to right.

Item	Function	LED Status	Meaning
1	Power	Solid orange	Switch is unable to connect to the Meraki cloud
		Flashing white	Firmware upgrade in process
		Solid white	Switch is fully operational and connected to the Meraki cloud
		Off	Switch does not have power
2	Restore	N/A	Restore button to clear switch IP and local configuration settings
3	Switch Ports	Off	No link is detected on this port
		Flashing orange (RJ45 ports only)	Activity indicator
		Solid green	1 Gbps link detected

Insert a paperclip if a restore is required.

- A brief, momentary press: To delete a downloaded configuration and reboot.
- Press and hold for more than 10 sec: To force the unit into a full factory restore.

Common Troubleshooting

My device is connected to the network but not checking in to the Meraki cloud or shows a solid Orange LED.

Confirm that the device is powered on and has a valid IP address that is able to access the Internet. Use the Local Status Page to get more information about the connectivity status of the device such as if it can successfully reach the Local Gateway, Internet, and/or Meraki Cloud servers. If necessary, contact Meraki Support for additional assistance.

My Status LED is blinking WHITE

A blinking WHITE Status LED indicates that the device is in contact with the Dashboard Cloud servers and is performing a firmware update. This can sometimes take 20-45 minutes or more to complete depending on hardware and other factors.

My Status LED is blinking ORANGE

The device is not able to successfully communicate with the Dashboard Cloud servers or there may be a hardware issue with the device. Check the Local Status Page of the device to confirm the status and reach out to Meraki Support for further troubleshooting.

Event Log

The most common Event Log messages and their meaning are listed below.

Port STP change

Indicates the STP state of the port has changed, lists the relevant port number, previous, and new states. Typically accompanied by a 'Port status change' event.

Port status change

Indicates the link state of the port has changed, lists the relevant port number, old, and new state. Always accompanied by a 'Port STP change' event.

SFP module inserted/removed

Indicates that an SFP module was either inserted or removed, includes SFP module information for inserted events and always lists the relevant port number.