

Cisco Meraki MS120-24P-HW

Cloud-Managed 24-Port Gigabit PoE+ Layer 2 Switch

DATASHEET

Product Overview: The Cisco Meraki MS120-24P-HW is a cloud-managed Layer 2 access switch designed for small to medium branch offices and enterprise deployments. Featuring 24 Gigabit Ethernet ports with a robust 370W PoE+ power budget, 4 dedicated 1G SFP uplinks, virtual stacking, and zero-touch deployment, it provides low-power, fanless-option quiet operation fully orchestrated via the Meraki Cloud Dashboard.

24 Ports

1 GBE RJ45 POE+

370W

TOTAL POE+ BUDGET

56 Gbps

SWITCHING CAPACITY

4x 1G

DEDICATED SFP UPLINKS

HARDWARE & PORT SPECIFICATIONS

Interface Category	Specification Details
Access Interfaces	24x 10/100/1000BASE-T RJ45 with Auto-MDI/MDIX Crossover
Uplink Interfaces	4x Dedicated 1 GbE SFP Fiber Slots
Power over Ethernet (PoE)	802.3af (PoE) / 802.3at (PoE+) available across all 24 ports (Up to 30W per port)
PoE Power Allocation	370W total available budget with dynamic client power allocation
Form Factor & Mounting	1U Rack-Mountable (Includes rack mounting hardware and desktop feet)

PERFORMANCE & SWITCHING SCALE

Switching Capacity	56 Gbps (Non-blocking fabric)
Forwarding Rate	41.67 Mpps (Million packets per second)
MAC Address Table Size	16,000 Entries
VLAN & Frame Support	Up to 4,094 VLAN IDs Jumbo Frames up to 9,578 Bytes
Quality of Service (QoS)	802.1p QoS, 8 queues with configurable DSCP-to-CoS mapping

PHYSICAL & POWER CHARACTERISTICS

Dimensions (W x D x H)	440 mm x 250 mm x 44 mm (17.32" x 9.84" x 1.72") – 1U Rack
Weight	3.71 kg (8.18 lbs)
Power Input & Supply	100–240 VAC, 47–63 Hz (Fixed Internal Power Supply)
Power Consumption	28W (Idle) / 425W (Full Load with 370W PoE draw)
Operating Temperature	0°C to 45°C (32°F to 113°F) Humidity: 5% to 95% non-condensing

KEY SOFTWARE & MANAGEMENT CAPABILITIES

Meraki Cloud Management

Zero-touch remote provisioning, centralized monitoring, global visibility, client fingerprinting, and scheduled firmware upgrades.

Zero-Touch

Cloud Dashboard

Virtual Stacking Architecture

Configure and manage thousands of switch ports across multiple physical locations simultaneously through a single pane of glass.

Virtual Stacking

Multi-Site

Enterprise Layer 2 Security

IEEE 802.1X RADIUS, MAC Authentication Bypass (MAB), DHCP Snooping, Dynamic ARP Inspection, and sticky MAC port security.

802.1X / MAB

DHCP Snooping

Live Diagnostics & Telemetry

Remote packet capture, TDR cable testing, link failure detection, automated email/SMS alerts, and interactive network topology maps.

Packet Capture

Cable Test

ETHERNET SWITCHING PROTOCOLS

Protocol Category	Supported Standards & Features
Spanning Tree Protocol	STP (802.1D) and Rapid Spanning Tree Protocol (RSTP 802.1w), BPDU Guard & Root Guard
Link Aggregation	802.3ad LACP (Up to 8 ports per aggregate trunk)
Neighbor Discovery	LLDP (802.1ab) and Cisco Discovery Protocol (CDP) for auto-voice VLAN assignment
Multicast & Traffic Control	IGMP v1/v2/v3 Snooping, Broadcast Storm Control, Port Mirroring

ORDERING INFORMATION & LICENSING

Part Number	Description
MS120-24P-HW	Cisco Meraki MS120 24-Port 1G PoE+ Switch (Hardware Unit)
LIC-MS120-24P-1YR	Cisco Meraki MS120-24P Enterprise License and Support (1 Year)
LIC-MS120-24P-3YR	Cisco Meraki MS120-24P Enterprise License and Support (3 Years)
LIC-MS120-24P-5YR	Cisco Meraki MS120-24P Enterprise License and Support (5 Years)
MA-SFP-1GB-SX	Cisco Meraki 1 GbE SFP SX Fiber Transceiver Module

Warranty & Lifetime Support: The MS120-24P-HW includes Cisco Meraki's standard limited lifetime hardware warranty with Advanced Next Business Day (NBD) replacement, along with 24x7 technical phone support and continuous cloud software upgrades provided with an active Meraki Enterprise subscription.