

Cisco Meraki MS125-48FP-HW

Cloud-Managed 48-Port Full PoE+ Gigabit Layer 2 Switch

DATASHEET

Product Overview: The Cisco Meraki MS125-48FP-HW is a high-density, cloud-managed Layer 2 access switch designed for enterprise branch offices, campus environments, and high-capacity PoE deployments. Featuring 48 Gigabit RJ45 ports with a massive 740W Full PoE+ power budget, 4 dedicated 10G SFP+ optical uplinks, virtual stacking, and zero-touch cloud provisioning, it provides high-throughput, low-latency connectivity across high-density client networks.

48 Ports

1 GBE RJ45 POE+

740W

FULL POE+ BUDGET

176 Gbps

SWITCHING CAPACITY

4x 10G

DEDICATED SFP+ UPLINKS

HARDWARE & PORT SPECIFICATIONS

Interface Category	Specification Details
Access Interfaces	48x 10/100/1000BASE-T RJ45 with Auto-MDI/MDIX Crossover
Uplink Interfaces	4x Dedicated 10 GbE SFP+ Fiber Slots (1G/10G dual-rate)
Power over Ethernet (PoE)	802.3af (PoE) / 802.3at (PoE+) available across all 48 ports (Up to 30W per port)
PoE Power Allocation	740W total available full PoE+ budget with dynamic allocation
Form Factor & Mounting	1U Rack-Mountable (Includes 19" rack mounting hardware kit)

PERFORMANCE & SWITCHING SCALE

Switching Capacity	176 Gbps (Non-blocking fabric)
Forwarding Rate	130.95 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 370 mm x 44 mm (17.32" x 14.57" x 1.72") — 1U Rack
Weight	5.08 kg (11.20 lbs)
Power Input & Supply	100–240 VAC, 47–63 Hz (Fixed Internal Power Supply)
Power Consumption	45W (Idle) / 880W (Full Load with 740W 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 deployment, central monitoring, client finger-printing, global visibility, and scheduled zero-downtime firmware updates.

Zero-Touch

10G Uplinks

Virtual Stacking Architecture

Manage thousands of switch ports across physical racks and distributed locations as a unified switch cluster through the dashboard.

Virtual Stacking

740W PoE+

Enterprise Layer 2 Security

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

802.1X / MAB

DHCP Guard

Live Diagnostics & Telemetry

Remote packet capture, TDR cable testing, link failure notification, automated SMS/email alerts, and real-time topology mapping.

Packet Capture

TDR 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 across 1G/10G links)
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
MS125-48FP-HW	Cisco Meraki MS125 48-Port 1G Full PoE+ Switch with 4x 10G SFP+ Uplinks
LIC-MS125-48FP-1YR	Cisco Meraki MS125-48FP Enterprise License and Support (1 Year)
LIC-MS125-48FP-3YR	Cisco Meraki MS125-48FP Enterprise License and Support (3 Years)
LIC-MS125-48FP-5YR	Cisco Meraki MS125-48FP Enterprise License and Support (5 Years)
MA-SFP-10GB-SR	Cisco Meraki 10GBASE-SR SFP+ Transceiver Module

Warranty & Lifetime Support: The MS125-48FP-HW is backed by Cisco Meraki's limited lifetime hardware warranty with Advanced Next Business Day (NBD) replacement, alongside 24x7 phone support and automated cloud software updates included with an active Meraki subscription.