

Cisco Meraki MS225-48LP-HW

DATASHEET

Cloud-Managed 48-Port Gigabit PoE+ Layer 2 Switch with 10G SFP+ & Stacking

Product Overview: The Cisco Meraki MS225-48LP-HW is an enterprise-class cloud-managed Layer 2 access switch with 80G hardware stacking capabilities. Purpose-built for branch and small campus deployments, it features 48 Gigabit RJ45 ports with a 370W PoE+ budget, 4 dedicated 10G SFP+ optical uplinks, static routing capabilities, and optional redundant power supply support (Cisco RPS2300) managed entirely through the Meraki Dashboard.

48 Ports

1 GBE RJ45 PoE+

370W

POE+ POWER BUDGET

176 Gbps

SWITCHING CAPACITY

80 Gbps

HARDWARE STACKING

HARDWARE & PORT SPECIFICATIONS

Interface Category	Specification Details
Access Interfaces	48× 10/100/1000BASE-T RJ45 with Auto-MDI/MDIX Crossover
Uplink Interfaces	4× Dedicated 10 GbE SFP+ Fiber Slots (1G/10G dual-rate)
Stacking Interfaces	2× Dedicated Stacking Ports (Up to 80 Gbps hardware stack bandwidth)
Power over Ethernet (PoE)	802.3af (PoE) / 802.3at (PoE+) available across all 48 ports (Up to 30W per port)
PoE Budget & Redundancy	370W total available budget Supports optional Cisco RPS2300 external power supply
Form Factor & Mounting	1U Rack-Mountable (Includes 19" rack mounting hardware kit and desktop feet)

PERFORMANCE & SWITCHING SCALE

Switching Capacity	176 Gbps (Non-blocking fabric)
Forwarding Rate	127.98 Mpps (Million packets per second)
MAC Address Table Size	32,000 Entries
VLAN & Frame Support	Up to 4,095 VLAN IDs Jumbo Frames up to 9,600 Bytes
Layer 3 Routing	Static Routing support for inter-VLAN routing on the access layer

PHYSICAL & POWER CHARACTERISTICS

Dimensions (W × D × H)	484.6 mm × 340 mm × 43.8 mm (19.08" × 13.38" × 1.72") — 1U Rack
Weight	4.37 kg (9.63 lbs)
Power Input & Supply	100–240 VAC, 47–63 Hz (Fixed Internal Power Supply)

KEY SOFTWARE & STACKING CAPABILITIES

80G Physical & Virtual Stacking

Stack up to 8 switches physically via dedicated stacking ports (compatible with MS210/MS225) alongside Meraki virtual stacking across thousands of ports.

80G Physical StackMS210 Cross-Stack

Meraki Cloud Management

Zero-touch remote provisioning, central monitoring, network topology auto-discovery, live packet capture, and automatic zero-downtime firmware updates.

Zero-Touch10G SFP+ Uplinks

Enterprise Access Security

IEEE 802.1X RADIUS authentication, MAC Authentication Bypass (MAB), DHCP Snooping, Dynamic ARP Inspection (DAI), and IPv4/IPv6 ACLs.

802.1X / MABDHCP Snooping

High Availability & Power Redundancy

Supports external Cisco RPS2300 redundant power supply connection to ensure continuous operation in mission-critical wiring closets.

RPS2300 OptionStatic Routing

ETHERNET SWITCHING & L2/L3 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, including multi-chassis aggregate trunks on stacked switches)
Neighbor Discovery	LLDP (802.1ab) and Cisco Discovery Protocol (CDP) with automatic Voice VLAN assignment
Multicast & Quality of Service	IGMP v1/v2/v3 Snooping, 802.1p QoS with 8 queues and configurable DSCP-to-CoS mapping

ORDERING INFORMATION & ACCESSORIES

Part Number	Description
MS225-48LP-HW	Cisco Meraki MS225 48-Port 1G 370W PoE+ Switch with 4x 10G SFP+ Uplinks
LIC-MS225-48LP-1YR	Cisco Meraki MS225-48LP Enterprise License and Support (1 Year)
LIC-MS225-48LP-3YR	Cisco Meraki MS225-48LP Enterprise License and Support (3 Years)
MA-CBL-40G-50CM	Meraki 0.5m Stacking Cable for MS210 / MS225 Series Switches
MA-SFP-10GB-SR	Cisco Meraki 10GBASE-SR SFP+ Transceiver Module

Warranty & Lifetime Support: The MS225-48LP-HW includes Cisco Meraki's limited lifetime hardware warranty with Advanced Next Business Day (NBD) replacement, complemented by 24x7 technical phone support and continuous cloud software updates included with an active Meraki subscription.