

Cisco Meraki MS390-48UX-HW

HARDWARE DATASHEET

ENTERPRISE MULTIGIGABIT UPOE SWITCH WITH ADAPTIVE POLICY

The **Cisco Meraki MS390-48UX-HW** combines purpose-built Cisco switching innovation with Meraki cloud management simplicity. Featuring 48 full multigigabit UPoE ports (36× 2.5G + 12× mGig up to 10G), high-speed 480 Gbps physical stacking, StackPower technology, and modular uplinks, it delivers enterprise-scale performance and security with adaptive policy intelligence for modern Wi-Fi 6/6E environments.

48 mGig 36X2.5G + 12X10G	UPoE 60W 60W PER PORT	480 Gbps STACK BANDWIDTH	Modular 40G / 10G UPLINKS
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HARDWARE ARCHITECTURE & TECHNICAL SPECIFICATIONS

Parameter	Specification Details
Interfaces	36 × 100M/1G/2.5G mGig RJ45, 12 × 100M/1G/2.5G/5G/10G mGig RJ45, Modular Uplink Slot
Modular Uplink Options	2 × 40G QSFP+ or 4 × 10G SFP+ or 8 × 10G SFP+ modular uplink options
PoE / UPoE Capabilities	60W UPoE / PoE+ (up to 60W per port across all mGig interfaces)
Switching Capacity	580 Gbps non-blocking switch fabric
Forwarding Rate	431.54 Mpps (Million Packets Per Second)
Physical Stacking	480 Gbps high-performance dedicated stacking ports (Up to 8 switches per stack)
Power & Redundancy	Dual hot-swappable modular PSUs (1100W default) with Cisco StackPower support

NEXT-GEN ENTERPRISE FEATURES & ADAPTIVE POLICY

- Cisco Adaptive Policy:** Software-defined security featuring Security Group Tags (SGTs) for intent-based access control and micro-segmentation across campus environments.
- Cisco StackPower Technology:** Share and pool power across stacked switches for advanced power redundancy without relying on external RPS units.
- High-Speed Multigigabit (mGig):** Eliminates bandwidth bottlenecks for Wi-Fi 6/6E access points over existing Cat5e/Cat6 copper infrastructure.
- Scalable Layer 3 Routing:** Full L3 routing capabilities including OSPFv2, static routing, PIM-ASM multicast routing, and VRRP warm spare failover.

ADVANCED NETWORK SECURITY & ASSURANCE

- **Zero-Trust Access & Auth:** Dynamic 802.1X RADIUS authentication, MAC Authentication Bypass (MAB), Hybrid Auth, and Guest VLAN isolation.
- **Topology Safeguards:** Dynamic ARP Inspection (DAI), DHCP Snooping, BPDU Guard, Root Guard, and Loop Guard.
- **SecureConnect Integration:** Automated verification and seamless zero-touch onboarding for connected Meraki MR Wireless Access Points.
- **Layer 7 Application Visibility:** Deep packet inspection (DPI) for precise bandwidth analysis and client traffic tracking.

PHYSICAL & POWER SPECIFICATIONS

Feature	Specification
Dimensions (H × W × D)	1.73" × 17.5" × 22.2" (4.4 cm × 44.5 cm × 56.4 cm)
Weight	20.50 lbs (9.34 kg)
Power Consumption	Idle: 218.5W Maximum: 785.5W
Cooling System	3 × Field-replaceable hot-swappable variable speed system fans
Operating Temperature	0°C to 45°C (32°F to 113°F) 5% to 95% non-condensing humidity

MODULAR ACCESSORIES & UPLINK OPTIONS

Modular Uplinks & Power:

- **MA-MOD-2X40G:** 2-Port 40G QSFP+ Uplink Module
- **MA-MOD-4X10G / 8X10G:** 4 or 8-Port 10G SFP+ Module
- **MA-PWR-1100WAC:** 1100W AC Power Supply Unit
- **StackPower Cables:** 30cm and 150cm power sharing cables

Transceivers & Stacking:

- **MA-CBL-120G-1M:** 120G Dedicated Stacking Cable (1m)
- **MA-QSFP-40G-SR4:** 40G QSFP+ Fiber Transceiver
- **MA-SFP-10GB-SR / LR:** 10G SFP+ Optics
- **MA-SFP-1GB-SX / LX:** 1G SFP Optics

MERAKI CLOUD DASHBOARD ADVANTAGE

The MS390 series connects directly to the Meraki Cloud Dashboard to offer unified management across network switches, access points, and security gateways. Features include zero-touch provisioning, automated firmware distribution, real-time topology mapping, dynamic alerts, and remote diagnostic tools.