

Cisco Meraki MS350-48FP-HW

HARDWARE DATASHEET

HIGH-PERFORMANCE LAYER 3 STACKABLE 48-PORT SWITCH

The **Cisco Meraki MS350-48FP-HW** is a high-performance Enterprise Layer 3 stackable switch engineered for mission-critical campus deployments. Featuring high-speed 160 Gbps hardware stacking, high-density full PoE+ capabilities (740W budget), and enterprise-grade dynamic routing (OSPFv2), it provides high throughput and operational resilience with centralized management via the Cisco Meraki Dashboard.

48 Ports 1G GBE RJ45	740 Watts FULL POE+ BUDGET	4× 10G SFP+ UPLINKS	160 Gbps STACK BANDWIDTH
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HARDWARE ARCHITECTURE & TECHNICAL SPECIFICATIONS

Parameter	Specification Details
Interfaces	48 × 10/100/1000 Mbps RJ45, 4 × 10GbE SFP+ uplinks, 2 × Stacking ports
PoE / PoE+ Capability	IEEE 802.3af (PoE) & 802.3at (PoE+) up to 30W per port (740W total budget)
Switching Capacity	176 Gbps non-blocking switch fabric
Forwarding Rate	130.95 Mpps (Million Packets Per Second)
Physical Stacking	High-speed 160 Gbps hardware stacking architecture (Up to 8 units in a stack)
Form Factor	1U Rack-mountable (19-inch rack mount hardware included)
Power Supply	Dual hot-swappable power supply support (1× 1025W AC PSU included)

ENTERPRISE LAYER 3 & HIGH-AVAILABILITY FEATURES

- Dynamic & Static Routing:** Advanced L3 dynamic routing with OSPFv2 support, static routing, and inter-VLAN routing for enterprise campus networks.
- High-Speed Stacking:** Ultra-fast 160 Gbps physical stacking architecture with virtual chassis redundancy and automatic configuration replication.
- DHCP Services:** Built-in DHCP Server, DHCP Relay, and DHCP Option support with failover capability.
- High Availability:** Warm Spare redundancy (VRRP) and redundant hot-swappable dual power supplies ensure mission-critical operational uptime.

SECURITY & GRANULAR TRAFFIC CONTROL

- **Port Security & Authentication:** IEEE 802.1X RADIUS authentication, MAC Authentication Bypass (MAB), Hybrid Auth, and Guest VLANs.
- **Intrusion Prevention & Guarding:** Dynamic ARP Inspection (DAI), DHCP Snooping, BPDU Guard, and Root Guard safeguard overall topology.
- **Access Control Lists (ACLs):** Flexible IPv4 and IPv6 ACLs for secure traffic filtering and network segregation.
- **Quality of Service (QoS):** 802.1p class of service priority queues with DSCP mapping for voice/video optimization.

PHYSICAL & POWER SPECIFICATIONS

Feature	Specification
Dimensions (H × W × D)	1.72" × 19.08" × 20.42" (4.38 cm × 48.46 cm × 51.87 cm)
Weight	12.83 lbs (5.82 kg)
Power Consumption	Idle: 25W Max (with 740W PoE load): 885W
Operating Temperature	-5°C to 50°C (23°F to 122°F)
Humidity	5% to 95% non-condensing

COMPATIBLE ACCESSORIES & TRANSCEIVERS

Power Supplies & Cables:

- **MA-PWR-1025WAC:** Meraki 1025W AC Power Supply
- **MA-CBL-40G-50CM:** 50cm Stacking Cable
- **MA-CBL-40G-1M:** 1m Stacking Cable
- **MA-CBL-40G-3M:** 3m Stacking Cable

SFP / SFP+ Transceivers:

- **MA-SFP-10GB-SR:** 10Gbase-SR SFP+ Transceiver
- **MA-SFP-10GB-LR:** 10Gbase-LR SFP+ Transceiver
- **MA-SFP-1GB-SX:** 1GbE SX SFP Transceiver
- **MA-SFP-1GB-TX:** 1GbE RJ45 Copper SFP Transceiver

CLOUD DASHBOARD MANAGEMENT

Managed through Meraki's cloud dashboard, the MS350-48FP-HW enables zero-touch provisioning, centralized topology mapping, remote packet captures, virtual stacking management, and dynamic alerting across distributed sites without requiring local console access.