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## Overview

MS350-48LP-HW is the Meraki MS350-48 L3 Stacking Cloud-Managed 48x GigE 370W PoE Switch. The Cisco Meraki MS350 series switches provide reliable and high bandwidth access switching ideal for deploying in campus networks. With high speed stacking capabilities and 10G SFP+ uplinks built in on every model, redundancy and performance are guaranteed. This family also supports options for multigigabit, UPoE, redundant, field-replaceable power supplies for mission critical networks.

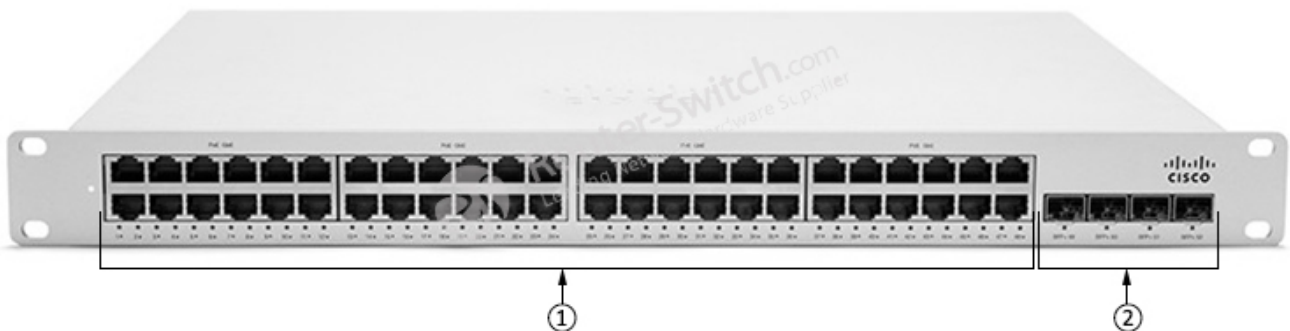
## Quick Spec

Table 1 shows the quick spec.

|                                 |                                                                                                                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SKU                             | MS350-48LP-HW                                                                                                                                                                             |
| Interfaces                      | <ul style="list-style-type: none"> <li>• 48 x 10/100/1000BASE-T Ethernet RJ45 with auto negotiation and autoMDIX3</li> <li>• 4 x SFP+ 10G uplink</li> <li>• 2 x stacking ports</li> </ul> |
| Switching capacity              | 176 Gbps                                                                                                                                                                                  |
| Stacking Bandwidth              | 160G (dual interface)                                                                                                                                                                     |
| Available PoE+ Power            | 370 W                                                                                                                                                                                     |
| Idle / Full Load Power          | 63 / 478 W                                                                                                                                                                                |
| Power Supply Configuration      | Hot-swappable                                                                                                                                                                             |
| Optional Redundant Power Supply | 2 x 640W PSU                                                                                                                                                                              |
| What's included                 | 1 x Power Supply (MA-PWR-640WAC), Mounting screw kit, 1 x Stacking Cable (0.5m), 2 x Pre-Installed Fans                                                                                   |
| Dimensions                      | 1.74" x 19.08" x 20.4" (4.44cm x 48.46cm x 51.81cm)                                                                                                                                       |
| Weight                          | 13.82 lb (6.27 kg)                                                                                                                                                                        |

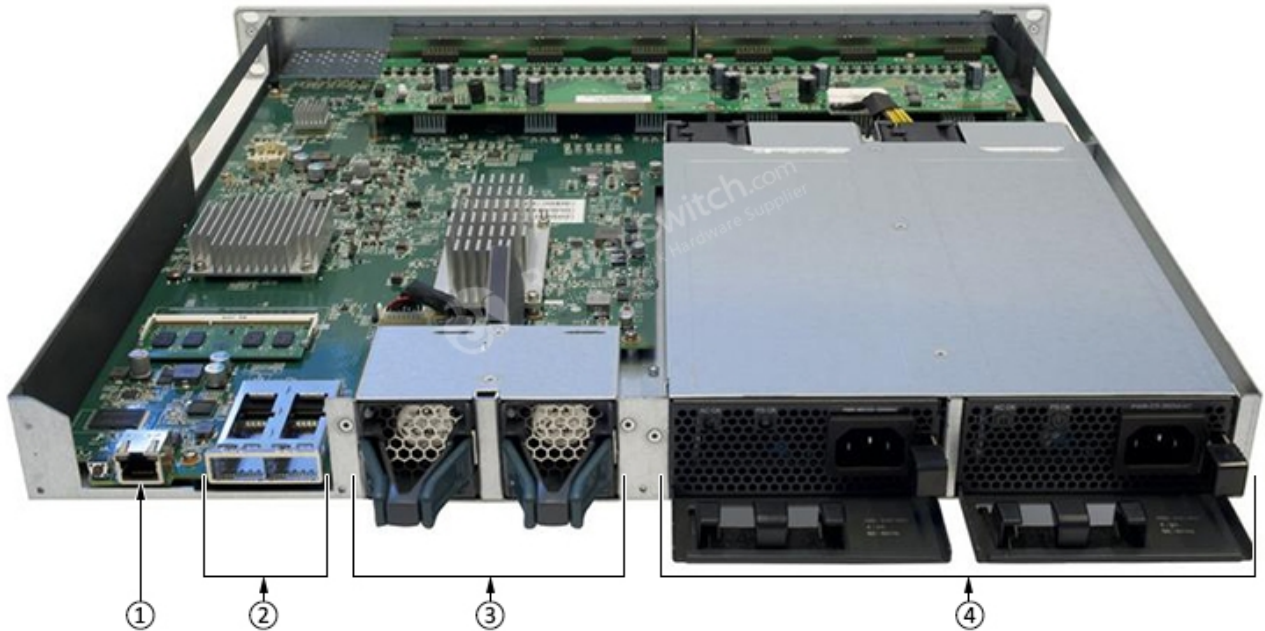
## Product Details

Figure 1 shows the front panel.



Note: (1) 48 x 10/100/1000BASE-T Ethernet RJ45 (2) 4 x SFP+ 10G uplink

Figure 2 shows the back panel without cover.



Note: (1) Management Interface (2) 2 x stacking ports (3) Redundant Fans (4) Redundant Power Supplies

## Compatible Accessories

Table 2 shows the accessories.

| Model                           | Description                        |
|---------------------------------|------------------------------------|
| <a href="#">MA-SFP-1GB-TX</a>   | Meraki 1 GbE SFP Copper Module     |
| <a href="#">MA-SFP-1GB-SX</a>   | Meraki 1000Base SX Multi-Mode      |
| <a href="#">MA-SFP-10GB-SR</a>  | Meraki 10G Base SR Multi-Mode      |
| <a href="#">MA-SFP-10GB-LRM</a> | Meraki 10G Base LRM                |
| <a href="#">MA-SFP-10GB-LR</a>  | Meraki 10G Base LR Single-Mode     |
| <a href="#">MA-CBL-40G-50CM</a> | Meraki 40GbE QSFP Cable. 0.5 Meter |
| <a href="#">MA-CBL-40G-1M</a>   | Meraki 40GbE QSFP Cable. 1 Meter   |
| <a href="#">MA-CBL-40G-3M</a>   | Meraki 40GbE QSFP Cable. 3 Meters  |

## Compare to Similar Items

Table 3 shows the Meraki Stackable Access Switches Comparison.

| Series                | MS210                                        | MS225                                        | MS250                                   | MS350                                          |
|-----------------------|----------------------------------------------|----------------------------------------------|-----------------------------------------|------------------------------------------------|
| Deployment Type       | Branch & Small Campus                        | Branch & Small Campus                        | Branch & Small Campus                   | Campus & Multigigabit                          |
| Interfaces            | 24/48 x 1GbE RJ45                            | 24/48 x 1GbE RJ45                            | 24/48 x 1GbE RJ45                       | 24/48 x 1GbE RJ45<br>8 x XGbE RJ45 (24 x only) |
| Uplinks               | 4 x 1GbE SFP                                 | 4 x 10GbE SFP+                               | 4 x 10GbE SFP+                          | 4 x 10GbE SFP+                                 |
| PoE Capabilities      | 370W (P, LP models)<br>740W (FP models)      | 370W (P, LP models)<br>740W (FP models)      | 370W (P, LP models)<br>740W (FP models) | 370W (P, LP models)<br>740W (24X, FP models)   |
| Power Configuration   | Internal Optional RPS                        | Internal Optional RPS                        | Modular Redundant PSU optional          | Modular Redundant PSU optional                 |
| Stacking Capabilities | Compatible with MS225 80G physical + virtual | Compatible with MS210 80G physical + virtual | 80G physical + virtual                  | 160G physical + virtual                        |

|                      |                                                                              |                                                                              |                                                                              |                                                                                              |
|----------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Routing Capabilities | Static only<br>DHCP Relay                                                    | Static only<br>DHCP Relay                                                    | Static + Dynamic<br>DHCP Server + Relay<br>Warm spare (VRRP)                 | Static + Dynamic<br>DHCP Server + Relay<br>Warm spare (VRRP)                                 |
| Models               | MS210-24-HW<br>MS210-24P-HW<br>MS210-48-HW<br>MS210-48LP-HW<br>MS210-48FP-HW | MS225-24-HW<br>MS225-24P-HW<br>MS225-48-HW<br>MS225-48LP-HW<br>MS225-48FP-HW | MS250-24-HW<br>MS250-24P-HW<br>MS250-48-HW<br>MS250-48LP-HW<br>MS250-48FP-HW | MS350-24-HW<br>MS350-24P-HW<br>MS350-24X-HW<br>MS350-48-HW<br>MS350-48LP-HW<br>MS350-48FP-HW |

## Support & Resources

 [\[PDF\] Cisco Meraki MS350 Series Switches Datasheet](#)

 [\[PDF\] Cisco Meraki Switches Comparison](#)

## Get more information

Do you have any question about the Meraki MS350-48LP-HW?

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## Specification

| MS350-48LP-HW Specification            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Interfaces</b>                      | <ul style="list-style-type: none"> <li>• 48 x 10/100/1000BASE-T Ethernet RJ45 with auto negotiation and autoMDIX3</li> <li>• 4 x SFP+ 10G uplink</li> <li>• 2 x stacking ports</li> </ul>                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Switching capacity</b>              | 176 Gbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Stacking Bandwidth</b>              | 160G (dual interface)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Forwarding rate</b>                 | 127.98 mpps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Available PoE+ Power</b>            | 370 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Idle / Full Load Power</b>          | 63 / 478 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Power Supply Configuration</b>      | Hot-swappable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Optional Redundant Power Supply</b> | 2 x 640W PSU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>What's included</b>                 | 1 x Power Supply (MA-PWR-640WAC), Mounting screw kit,<br>1 x Stacking Cable (0.5m),<br>2 x Pre-Installed Fans                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Dimensions</b>                      | 1.74" x 19.08" x 20.4" (4.44cm x 48.46cm x 51.81cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Weight</b>                          | 13.82 lb (6.27 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Management</b>                      | <ul style="list-style-type: none"> <li>• Managed via the Web with the Meraki cloud management platform</li> <li>• Integrated with Meraki Wireless and complete portfolio of IT products and solutions</li> <li>• Zero-touch remote provisioning (no staging needed)</li> <li>• Detailed historical per-port and per-client usage statistics</li> <li>• DHCP, client, and hostname fingerprinting</li> <li>• SNMPd and SYSLOG support for integration with other network management solutions</li> <li>• Automatic firmware upgrades with scheduling control</li> </ul> |
| <b>Layer 3</b>                         | <ul style="list-style-type: none"> <li>• Static routing, OSPFv2</li> <li>• Multicast routing</li> <li>• Warm Spare (VRRP)</li> <li>• DHCP Relay, DHCP Server</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                |

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Remote Diagnostics</b>              | <ul style="list-style-type: none"> <li>• Email, SMS and Mobile push notification alerts</li> <li>• Cable testing and link failure detection with alerting</li> <li>• Live remote packet capture</li> <li>• Dynamic and interactive network discovery and topology</li> <li>• Combined event and configuration change logs with instant search</li> </ul>                                                                                                                                                                                                                                                                                             |
| <b>Power</b>                           | <ul style="list-style-type: none"> <li>• Power input: 100 - 240 VAC, 47-63 Hz</li> <li>• Power consumption: 56 - 888W</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Stacking</b>                        | <ul style="list-style-type: none"> <li>• Physical stacking of up to 8 switches with 160 Gbps stack bandwidth on all models</li> <li>• Virtual stacking supports thousands of switch ports in a single logical stack for unified management, monitoring, and configuration</li> </ul>                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Mounting</b>                        | <ul style="list-style-type: none"> <li>• 1U Rack-mountable with included rack mount hardware</li> <li>• 2-post front mounting options available</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Ethernet Switching Capabilities</b> | <ul style="list-style-type: none"> <li>• 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping)</li> <li>• 802.1Q VLAN and trunking support for up to 4,094 VLANs</li> <li>• 802.1w, 802.1D Rapid Spanning Tree Protocol (RSTP, STP)</li> <li>• Broadcast storm control</li> <li>• 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP)</li> <li>• 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches</li> <li>• Port mirroring</li> <li>• IGMP snooping for multicast filtering</li> <li>• MAC forwarding entries: 32K</li> </ul> |
| <b>Environment</b>                     | <ul style="list-style-type: none"> <li>• Operating temperature: -5°C to 50°C</li> <li>• Humidity: 5 to 95% non-condensing</li> <li>• Variable speed fans</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Regulatory</b>                      | <ul style="list-style-type: none"> <li>• CSA-US (US, Canada)</li> <li>• FCC (USA)</li> <li>• IC (Canada)</li> <li>• CE (Europe)</li> <li>• RCM (Australia/New Zealand)</li> <li>• RoHS</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Security</b>                        | <ul style="list-style-type: none"> <li>• Integrated two-factor authentication for Dashboard management</li> <li>• Role-based access control (RBAC) with granular device and configuration control</li> <li>• Corporate wide password policy enforcement</li> <li>• IEEE 802.1X RADIUS and MAB, hybrid authentication and RADIUS server testing</li> <li>• Multi-Domain/Multi-Host/Multi Authentication</li> <li>• Port security: Sticky MAC, MAC whitelisting</li> <li>• DHCP snooping, detection and blocking, Dynamic ARP Inspection</li> <li>• STP Enhancements: BPDU guard, Root guard, Loop guard</li> <li>• IPv4 and IPv6 ACLs</li> </ul>      |
| <b>MTBF Ratings</b>                    | 536,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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