# Cisco Cloud–Managed Switching

## Overview

Cisco Meraki offers a broad range of switches that are designed to be easy to manage without compromising any of the power and flexibility traditionally found in enterprise-class switches.

Meraki access and aggregation switches are all managed through an elegant, intuitive cloud interface, freeing administrators to spend less time on configuration and more time on meeting business needs.

The Meraki dashboard makes getting your switches up and running simple. The intuitive user interface removes repetitive, time-consuming processes, while advanced features like Cloud CLI enable administrators to retain advanced control.

A powerful centralized management interface gives administrators deep visibility into the network and how it is used. See which switches are near capacity across hundreds of sites. Quickly provision and reconfigure switch ports with security, quality of service (QoS), and more. The Meraki dashboard provides unified policies, event logs, and monitoring, making switch management efficient and scalable.

# Product highlights

Meraki switches include all of the traditional Ethernet features found on the highest-end products, including:

- Wide range of models for campus, branch and rugged environments, from basic Layer 2 to high-performance Layer 3

- Up to 10 GbE access ports and 100 GbE uplinks for scalable deployments

- True zero-touch configuration that scales with organizational needs

- Integrated troubleshooting, logging, and alerting to lower operational costs

- Energy-efficient, low-noise design with fanless options

- Cloud management for reduced cost, overhead, and faster issue resolution

- Advanced security with IEEE 802.1x, MAC-based RADIUS authentication, and multiple admin roles

- QoS to prioritize critical traffic like voice and video

- Link Aggregation (LACP) and Rapid Spanning Tree Protocol (RSTP) for high availability and network stability

- Voice VLAN, DHCP snooping, and IGMP snooping to optimize and secure network traffic

- StackPower, advanced physical stacking, multigigabit, and UPOE+ options on select models

# Introducing the Catalyst 9200L-M



## Day 0 native cloud management with Catalyst 9200L-M

The Catalyst 9200L-M is a fixed, stackable access switch designed to simplify deployment and management and serve as an ideal choice for customers transitioning from Meraki MS switches or for advanced branch environments where ease of use, reliability, flexibility, and cloud scale are critical.

- 24/48 port options, 4× 10GbE, 4× 10GbE and 2× 25 GbE uplinks, 30W PoE+, and up to 10GbE RJ45 ports.

- Cloud management powered by IOS XE with support for advanced features and secure Cloud CLI terminal for automated show commands to aide in granular troubleshooting.

- Support for Adaptive Policy allows for the simplified creation of authorization policies and quick scaling of micro-segmentation across connected devices.

- Optional redundant power supply units provide up to 1440W power budget to add greater resilience to network operations and power smart building, converged access, and physical security use cases.

**Data only, Gigabit models**

C9200L-24T-4X-M
C9200L-48T-4X-M
C9200L-24T-4G-M
C9200L-48T-4G-M

**PoE, Gigabit models**

C9200L-24P-4X-M
C9200L-24P-4G-M
C9200L-48PL-4X-M
C9200L-48P-4X-M
C9200L-48P-4G-M
C9200L-48PL-4G-M

**PoE, Multigigabit models**

C9200L-24PXG-4X-M
C9200L-24PXG-2Y-M
C9200L-48PXG-4X-M
C9200L-48PXG-2Y-M

# Stackable access switching portfolio

| | Catalyst 9200L-M (Data only, Gigabit) | Catalyst 9200L-M (PoE, Gigabit) | Catalyst 9200L-M (PoE, Multigigabit) |
|---|---|---|---|
| **Usage** | Entry-level enterprise environments | | |
| **Interface** | 24/48× 1 GbE RJ45 | 24/48× 1 GbE RJ45 | 24 port: 8× 10 GbE + 16× 1 GbE<br><br>48 port: 12/8× 10GbE + 36/40x 1 GbE |
| **Uplinks** | 4× 10 GbE uplinks (-4X SKUs)<br><br>4× 1 GbE uplinks (-4G SKUs) | 4× 10 GbE uplinks (-4X SKUs)<br><br>4× 1 GbE uplinks (-4G SKUs) | 4× 10 GbE uplinks (-4X SKUs)<br><br>2× 25 GbE uplinks (-2Y SKUs) |
| **PoE capabilities** | Data only | 30W PoE+ (-24/48P SKUs)<br><br>Partial PoE (-24/48PL SKUs) | 4× 10 GbE uplinks (-4X SKUs)<br><br>2× 25 GbE uplinks (-2Y SKUs) |
| **Power configuration** | Removable PSU, Optional redundant power supply | | |
| **Stacking capabilities** | 80G physical + virtual + StackWise-80 | | |
| **Routing capabilities** | Static + dynamic, DHCP server + relay | | |
| **Advanced capabilities** | Adaptive Policy<br>Network Access Control with Access Manager<br>Radius Device Sensor<br>AVC NetFlow Traffic Analytics<br>NBAR2 Application Visibility (1500+ applications) | | |
| **Models** | C9200L-24T-4X-M<br>C9200L-48T-4X-M<br>C9200L-24T-4G-M<br>C9200L-48T-4G-M | C9200L-24P-4X-M<br>C9200L-24P-4G-M<br>C9200L-48PL-4X-M<br>C9200L-48P-4X-M<br>C9200L-48P-4G-M<br>C9200L-48PL-4G-M | C9200L-24PXG-4X-M<br>C9200L-24PXG-2Y-M<br>C9200L-48PXG-4X-M<br>C9200L-48PXG-2Y-M |

# Stackable access switching portfolio

| | Catalyst 9300-M (Gigabit) | Catalyst 9300L-M (Gigabit) | Catalyst 9300-M (mGig) |
|---|---|---|---|
| Usage | High-performance branch and campus, secure Wi-Fi 7 deployments | | Secure Wi-Fi 7 deployments |
| Interface | 24/48× 1 GbE RJ45 | 24/48× 1 GbE RJ45 | C9300-24UX-M: 24× 10G mGig<br><br>C9300-48UXM-M: 36× 2.5 mGig and 12× 10G mGig<br><br>C9300-48UN-M: 48× 5G mGig |
| Uplinks | 4× 1G/10G SFP/SFP+<br>8× 1/10G SFP/SFP+<br>2× 40G QSFP<br>2× 1G/10G/25G SFP/SFP+ | 4× 1G/10G SFP/SFP+ | 4× 1G/10G SFP/SFP+<br>8× 1G/10G SFP/SFP+<br>2× 40G QSFP<br>2× 1G/10G/25G SFP28 |
| PoE capabilities[1] | Data only option<br>30 W PoE+ option<br>60 W UPOE option | Data only option<br>30 W PoE+ option | 60 W UPOE option |
| Power configuration | Removable PSU<br>Modular 80 PLUS® Platinum PSU | | |
| Stacking capabilities | 480G physical + virtual + StackPower | 320G physical + virtual | 480G physical + virtual + StackPower |
| Routing capabilities | Static + dynamic<br>DHCP Server + relay | | |
| Advanced capabilities | Adaptive Policy<br>Radius Device Sensor<br>AVC NetFlow Traffic Analytics<br>NBAR2 Application Visibility (1500+ applications)<br>Encrypted Traffic Analytics (ETA) | | |
| Models | C9300-24T-M<br>C9300-24P-M<br>C9300-24U-M<br>C9300-48T-M<br>C9300-48P-M<br>C9300-48U-M | C9300L-24T-4X-M<br>C9300L-48T-4X-M<br>C9300L-24P-4X-M<br>C9300L-48P-4X-M<br>C9300L-48PF-4X-M | C9300-24UX-M<br>C9300-48UXM-M<br>C9300-48UN-M |

[1] For PoE specifications with primary and secondary power supply, please refer to the
Catalyst 9300-M datasheet Power Supply and Specifications section.

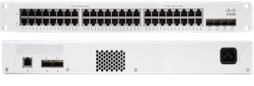| | Catalyst 9300L-M (mGig) | Catalyst 9300X-M (mGig) | Catalyst 9300-M (fiber) | Catalyst 9300X-M (fiber) |
|---|---|---|---|---|
| **Usage** | Secure Wi-Fi 6/6E deployments | Secure Wi-Fi 6/6E deployments<br><br>90 W UPOE options for smart building deployments | Fiber aggregation for campus access and branch | |
| **Interface** | 24/48× 10G mGig | C9300X-48TX-M: 48× 10G mGig<br><br>C9300X-24HX-M: 24× 10G mGig<br><br>C9300X-48HX-M: 48× 10G mGig<br><br>C9300X-48HXN-M: 40× 5G and 8× 10G mGig | C9300-24S/48S-M: 24/48× 1 GbE SFP | C9300X-12Y/24Y-M: 12/24× 25G SFP28 |
| **Uplinks** | 4× 1G/10G SFP/SFP+ | 2× 40G/100G QSFP28<br>8× 1/10/25G SFP28 | 4× 1G/10G SFP/SFP+<br>8× 1/10G SFP/SFP+<br>2× 40G QSFP<br>2× 1G/10G/25G SFP/SFP+ | 2× 40G/100G QSFP28<br>8× 1/10/25G SPF28 |
| **PoE capabilities[1]** | 60 W PoE | Data only and 90 W UPOE+ options | Fiber ports | |
| **Power configuration** | Removable PSU<br>Modular 80 PLUS® Platinum PSU | | | |
| **Stacking capabilities** | 320G physical + virtual | Stackwise-1T + virtual + StackPower[2] | 480G physical + virtual + StackPower | Stackwise-1T + virtual + StackPower[2] |
| **Routing capabilities** | Static + dynamic<br>DHCP server + relay | | | |
| **Advanced capabilities** | Adaptive Policy<br>Radius Device Sensor<br>AVC NetFlow Traffic Analytics<br>NBAR2 Application Visibility (1500+ applications)<br>Encrypted Traffic Analytics (ETA) | | | |
| **Models** | C9300L-24UXG-4X-M<br>C9300L-48UXG-4X-M | C9300X-48TX-M<br>C9300X-24HX-M<br>C9300X-48HX-M<br>C9300X-48HXN-M | C9300-24S-M<br>C9300-48S-M | C9300X-12Y-M<br>C9300X-24Y-M |

[1] For PoE specifications with primary and secondary power supply, please refer to the Catalyst 9300-M datasheet Power Supply and Specifications section.

[2] 480G when stacking with Catalyst 9300-M models

# Access switching portfolio

| | MS120-8 | MS120 | MS125 |
|---|---|---|---|
| **Usage** | Compact | Branch and campus | Branch and office |
| **Interface** | 8× 1 GbE RJ45 | 24/48× 1 GbE RJ45 | 24/48× 1 GbE RJ45 |
| **Uplinks** | 2× 1 GbE SFP<br>Fixed | 4× 1 GbE SFP<br>Fixed | 4× 10 GbE SFP<br>Fixed |
| **PoE capabilities** | 67 W (LP model)<br>124 W (FP model) | 370 W (P, LP models)<br>740 W (FP model) | 370 W (P, LP models)<br>740 W (FP model) |
| **Power configuration** | External PSU (non-PoE, LP model)<br>Internal (FP model) | Internal | Internal |
| **Stacking capabilities** | Virtual only | Virtual only | Virtual only |
| **Routing capabilities** | DHCP relay | DHCP relay | DHCP relay |
| **Models** | MS120-8-HW<br>MS120-8LP-HW<br>MS120-8FP-HW | MS120-24-HW<br>MS120-24P-HW<br>MS120-48-HW<br>MS120-48LP-HW<br>MS120-48FP-HW | MS125-24-HW<br>MS125-24P-HW<br>MS125-48-HW<br>MS125-48LP-HW<br>MS125-48FP-HW |

# Access switching portfolio

| | MS130 compact | MS130 | MS130R | MS150 |
|---|---|---|---|---|
| **Usage** | Compact | Branch and campus | Ruggedized (hot/cold/tight environments) | Branch and campus Multigigabit Secure Wi-Fi 7 deployments |
| **Interface** | 8/12× 1 GbE RJ45 <br> 6/8× 1 GbE + 2/4× 2.5 GbE RJ45 (in select models) | 24/48× 1 GbE RJ45 <br> 18/40× 1 GbE + 6/8x 2.5 GbE RJ45 (in select models) | 8× 1 GbE RJ45 | 24/48× 1 GbE RJ45 <br> 16/32× 1 GbE + 8/16x 5 GbE RJ45 (in select models) |
| **Uplinks** | 2× 1 GbE SFP <br> 2× 10 GbE SFP+ (in select models) <br> Fixed | 4× 1 GbE SFP <br> 4× 10 GbE SFP+ (in select models) <br> Fixed | 2× 1 GbE SFP | 4× 1 GbE SFP <br> 4× 10 GbE SFP+ (in select models) <br> Fixed |
| **PoE capabilities** | 120 W <br> 240 W (MS130-12X only) | 370 W <br> 740 W (MS130-48P/X only) | Up to 240 W | 370 W (P, LP models) <br> 740 W (FP models) |
| **Power configuration** | Internal (MS130-8P-I only) <br> External | Internal | External | Internal |
| **Stacking capabilities** | Virtual only | Virtual only | Virtual only | 2 × 80G physical + virtual |
| **Routing capabilities** | DHCP relay | DHCP relay | DHCP relay | DHCP relay <br> Static Routing |
| **Advanced capabilities** | Adaptive Policy Segmentation[1] | | | |
| **Models** | MS130-8-HW <br> MS130-8P-HW <br> MS130-8P-I-HW <br> MS130-8X-HW (mGig, 10 GbE SFP + option)[1] <br> MS130-12X-HW (mGig, 10 GbE SFP + option)[1] | MS130-24-HW <br> MS130-24P-HW <br> MS130-24X-HW (mGig, 10 GbE SFP + option)[1] <br> MS130-48-HW <br> MS130-48P-HW <br> MS130-48X-HW (mGig, 10 GbE SFP + option)[1] | MS130R-8P-HW | MS150-24T-4G <br> MS150-24P-4G <br> MS150-48T-4G <br> MS150-48LP-4G <br> MS150-48FP-4G <br> MS150-24T-4X <br> MS150-24P-4X <br> MS150-48T-4X <br> MS150-48LP-4X <br> MS150-48FP-4X <br> MS150-24MP-4X (UPOE + mGig + 10G SFP+) <br> MS150-48MP-4X (UPOE + mGig + 10G SFP+) |

[1] MS130 mGig (-X) models and MS130R are hardware-ready for the Adaptive Policy feature with MS17 firmware upgrade and advanced license.

# Stackable access switching portfolio

|  | MS210 | MS225 | MS250 |
|---|---|---|---|
| Usage | Branch and campus | Branch and campus | Branch and campus |
| Interface | 24/48× 1 GbE RJ45 | 24/48× 1 GbE RJ45 | 24/48× 1 GbE RJ45 |
| Uplinks | 4× 1 GbE SFP<br>Fixed | 4× 10 GbE SFP+<br>Fixed | 4× 10 GbE SFP+<br>Fixed |
| PoE capabilities | 370 W (P, LP models)<br>740 W (FP models) | 370 W (P, LP models)<br>740 W (FP models) | 370 W (P, LP models)<br>740 W (FP models) |
| Power configuration | Internal<br>Optional RPS | Internal<br>Optional RPS | Modular<br>Redundant PSU optional |
| Stacking capabilities | Compatible with MS225<br>80G physical + virtual | Compatible with MS210<br>80G physical + virtual | 80G physical + virtual |
| Routing capabilities | Static only<br>DHCP relay | Static only<br>DHCP relay | Static + dynamic[1]<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 |

[1] Detailed routing specifications are available in series datasheets.

# Stackable access switching portfolio

|  | MS350 | MS355 | MS390 |
|---|---|---|---|
| **Usage** | Campus and multigigabit | Branch and campus | High-performance campus and branch |
| **Interface** | 24/48× 1 GbE RJ45[1]<br>8× mGig RJ45 (24 port only) | 24/48× 1 GbE RJ45<br>8× mGig RJ45 (24 port only) | 24/48× 1 GbE RJ45<br>24/48× mGig RJ45 (in select models) |
| **Uplinks** | 4× 10 GbE SFP+<br>Fixed | 2× 40G QSFP+<br>Fixed | 4/8× 10 GbE SFP+<br>2× 40 GbE QSFP+<br>Modular |
| **PoE capabilities** | 370 W (P, LP models)<br>740 W (24 port, FP models) | 740 W (24 port, X2 models)<br>740 W (48 port, X2 models) | 830 W (24 port models)<br>822 W (48 port models) |
| **Power configuration** | Modular<br>Redundant PSU optional | Removable PSU | Removable PSU<br>Modular 80 PLUS® Platinum PSU |
| **Stacking capabilities** | 160G physical + virtual | 400G physical +virtual | Compatible only with MS390<br>480G physical + virtual |
| **Routing capabilities** | Static + dynamic[2]<br>DHCP server + relay<br>Warm spare (VRRP) | Static + dynamic<br>DHCP server + relay | Static + dynamic<br>DHCP server + relay |
| **Models** | MS350-48-HW<br>MS350-48LP-HW<br>MS350-48FP-HW | MS355-24X-HW<br>MS355-24X2-HW<br>MS355-48X-HW<br>MS355-48X2-HW | MS390-24-HW<br>MS390-24P-HW<br>MS390-24U-HW<br>MS390-24UX-HW<br>MS390-48-HW<br>MS390-48P-HW<br>MS390-48U-HW<br>MS390-48UX-HW<br>MS390-48UX2-HW |

[1] Interfaces do not support half-duplex on the MS350.

[2] Detailed routing specifications are available in series datasheets.

# Aggregation switching portfolio

| | MS410 | MS425 | MS450 |
|---|---|---|---|
| Usage | 1G fiber aggregation | 10G fiber aggregation | 40G fiber aggregation |
| Interface | 16/32× GbE SFP | 16/32× 10 GbE SFP+ | 12× 40 GbE QSFP+ |
| Uplinks | 2× 10 GbE SFP+ (MS410-16)<br>4× 10 GbE SFP+ (MS410-32) | 2× 40 GbE QSFP+ | 2× 100 GbE QSFP28 |
| Power configuration | Modular<br>Redundant PSU optional (sold separately) | Modular<br>Redundant PSU optional (sold separately) | Modular<br>Redundant PSU optional (sold separately) |
| Stacking capabilities | 160G physical + virtual | 160G physical + virtual | 2x dedicated stack ports for up to 400G + virtual |
| Routing capabilities | Static + dynamic<br>DHCP server + relay<br>Warm spare (VRRP) | Static + dynamic<br>DHCP server + relay<br>Warm spare (VRRP) | Static + dynamic<br>DHCP server + relay<br>Warm spare (VRRP) |
| Models | MS410-16-HW<br>MS410-32-HW | MS425-16-HW<br>MS425-32-HW | MS450-12-HW |

# Lifetime warranty with next-day advance replacement

All Cisco Meraki MS switches include a limited lifetime hardware warranty that provides next-day advance hardware replacement. The Meraki simplified software and support licensing model also combines software upgrades, centralized systems management, and phone support under a single, easy-to- understand model.

For complete details, please visit meraki.cisco.com/support.

# Features and capabilities

Meraki switches include all of the traditional Ethernet features found in modern enterprise access switches, including:

## Intelligent campus and branch switching

With built-in monitoring, troubleshooting, and logging capabilities, Meraki switches provide a refreshing new approach to managing network infrastructure, regardless of deployment size. The virtual stacking technology eliminates the need for configuration scripts and commands, empowering administrators to make changes quickly and securely on one or all of the switches in a deployment at once.
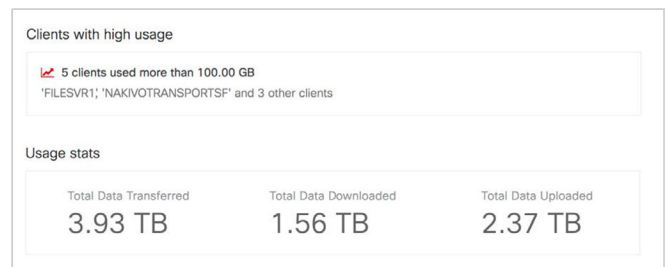
**Intelligent anomaly detection flags potential network events**

## Wired security without compromise

Whether deployed in an office environment, hospital, or retail store, Meraki switches make enforcing security policies a breeze. Set up multiple policies and enable them at the port level or apply them across the entire network in a few clicks. Meraki switches also provide comprehensive security reporting, making it easy to proactively discover rogue DHCP servers and other malicious activity on the network.

**Rogue DHCP server detection across the entire network**

## Troubleshooting the way it should be

Drastically reduce time to resolution with a variety of powerful troubleshooting tools, such as remote cable testing and packet captures, that help isolate and troubleshoot network issues. With the dynamic network topology of Meraki, automatically see how the entire network is interconnected and ensure the team receives alerts upon power loss, downtime, or configuration changes.



Remote cable test in the Meraki dashboard

## StackPower and improved physical stacking

StackPower pools power from each individual power supply unit (PSU) in a switch stack to form a larger, shared pool of power that provides additional redundancy and also helps reduce costs by managing the available PoE more efficiently. Improved physical stacking helps with faster stack convergence in case of a failover, which is critical in large enterprise deployments.

## Industry-leading cloud management

The Meraki cloud management architecture delivers true zero-touch switch provisioning. Configure switches before they arrive on-site or use Meraki templates to standardize an entire fleet of switches, no matter what size.



Switch virtual stack for managing all switch ports at once

With Meraki virtual stacking, administrators can manage up to thousands of ports from a single dashboard, enabling rapid and streamlined configuration that could otherwise take weeks to complete.

## Built-in application layer visibility

Meraki is the only switch to include integrated layer 7 fingerprinting. Identify hundreds of applications, from business apps to BitTorrent and YouTube. User fingerprinting with Google-like search allows administrators to easily identify and control individual users, PCs, iMacs, iPads, Androids, and other devices. This unprecedented visibility allows optimization of network resources and maintenance of optimal network performance.



**Granular network client visibility up to the application layer**

## Beyond-the-network software architecture

Meraki switches run the same operation system used by all Meraki products. The use of a common operating system allows a consistent experience across all product lines, from security products to VoIP phones. Meraki switches automatically connect to the Meraki cloud, download the configuration, and join the appropriate network. If new firmware is required, this is retrieved by the switch and updated automatically. This ensures the network is kept up to date with bug fixes, security updates, and new features.
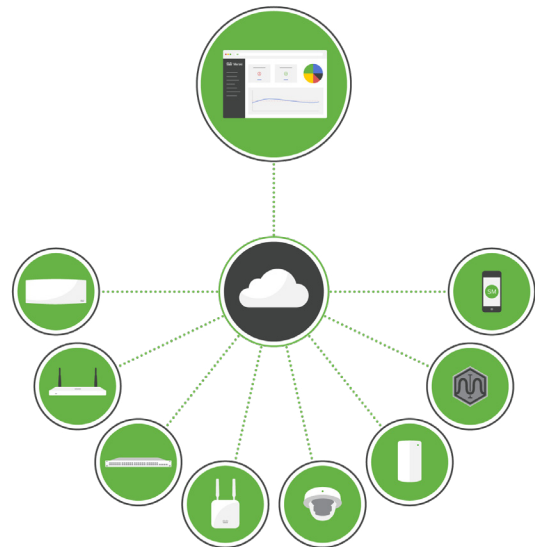


**MERAKI CLOUD MANAGEMENT ARCHITECTURE WITH ALL PRODUCTS**

# Included in the box

| | |
|---|---|
| **MS120-8 series** | Integrated mounting brackets; external PSU (non-PoE and LP models); getting started insert |
| **MS120 series** | Getting started insert |
| **MS130 series**[1] | Power supply (1); getting started insert |
| **MS130R**[2] | Mounting brackets (DIN rail mounting bracket, 19 in rack-mount bracket, wall-mount bracket); getting started insert |
| **MS150 series** | Getting started insert |
| **MS210 series** | Getting started insert |
| **MS225 series** | Getting started insert |
| **MS250 series** | Power supply (1); system fans (2); getting started insert |
| **MS350 series** | Stacking cable (1); power supply (1); system fans (2); getting started insert |
| **MS355 series** | Power supply (1); system fans (3); getting started insert |
| **MS390 series** | Power supply (1); system fans (3); getting started insert |
| **MS410 series** | Power supply (1); system fans (2); getting started insert |
| **MS425 series** | Power supply (1); system fans (3); getting started insert |
| **MS450 series** | Power supply (1); system fans (3); getting started insert |
| **Catalyst 9300-M series** | Power supply (1); system fans (3); rack-mount brackets; getting started insert |
| **Catalyst 9200L-M series** | Power supply (1); system fans (3); rack-mount brackets; getting started insert |

[1] Rack-mount screws are not included in the box, but can be ordered separately. Meraki recommends sourcing rack-mount screws and nuts made for your specific rack.

[2] Power supplies must be ordered separately, see accessories section on page 19.

# Subscription Licensing

Every MS subscription is available for any term length, starting from 1 year and up to 10 years. For more information on subscription licensing, please visit Subscription Licensing Overview.

| Subscription License SKUs | Hardware Model |
|---|---|
| MS100 Small<br>Essentials: LIC-MS-100-S-E<br>Advantage: LIC-MS-100-S-A | MS120 8 ports<br>MS130 8 ports<br>MS130R 8 ports<br>MS220 8 ports |
| MS100 Medium<br>Essentials: LIC-MS-100-M-E<br>Advantage: LIC-MS-100-M-A | MS120 24 ports<br>MS125 24 ports<br>MS130 24 ports<br>MS220 24 ports |
| MS100 Large<br>Essentials: LIC-MS-100-L-E<br>Advantage: LIC-MS-100-L-A | MS120 48 ports<br>MS125 48 ports<br>MS130 48 ports<br>MS220 48 ports |
| MS200 Medium<br>Essentials: LIC-MS-200-M-E<br>Advantage: LIC-MS-200-M-A | MS210 24 ports<br>MS225 24 ports<br>MS250 24 ports<br>MS320 24 ports |
| MS200 Large<br>Essentials: LIC-MS-200-L-E<br>Advantage: LIC-MS-200-L-A | MS210 48 ports<br>MS225 48 ports<br>MS250 48 ports<br>MS320 48 ports |
| MS300 Medium<br>Essentials: LIC-MS-300-M-E<br>Advantage: LIC-MS-300-M-A | MS350 24 ports<br>MS355 24 ports<br>MS390 24 ports<br>Catalyst 9300-M 24 ports<br>Catalyst 9300L-M 24 ports |
| MS300 Large<br>Essentials: LIC-MS-300-L-E<br>Advantage: LIC-MS-300-L-A | MS350 48 ports<br>MS355 48 ports<br>MS390 48 ports<br>Catalyst 9300-M 48 ports<br>Catalyst 9300L-M 48 ports |
| MS400 Medium<br>Essentials: LIC-MS-400-M-E<br>Advantage: LIC-MS-400-M-A | MS410 16 ports<br>MS420 24 ports<br>MS425 16 ports |
| MS400 Large<br>Essentials: LIC-MS-400-L-E<br>Advantage: LIC-MS-400-L-A | MS410 32 ports<br>MS420 48 ports<br>MS425 32 ports<br>MS450 12 ports |

# Co-term Licensing

MS co-term licenses are available in 1-, 3-, 5-, 7-, and 10-year terms.

| Product | Model | License | Description |
| --- | --- | --- | --- |
| MS120 | MS120-8-HW | LIC-MS120-8-xY | MS120-8 Enterprise license and support |
| | MS120-8LP-HW | LIC-MS120-8LP-xY | MS120-8LP Enterprise license and support |
| | MS120-8FP-HW | LIC-MS120-8FP-xY | MS120-8FP Enterprise license and support |
| | MS120-24-HW | LIC-MS120-24-xY | MS120-24 Enterprise license and support |
| | MS120-24P-HW | LIC-MS120-24P-xY | MS120-24P Enterprise license and support |
| | MS120-48-HW | LIC-MS120-48-xY | MS120-48 Enterprise license and support |
| | MS120-48LP-HW | LIC-MS120-48LP-xY | MS120-48LP Enterprise license and support |
| | MS120-48FP-HW | LIC-MS120-48FP-xY | MS120-48FP Enterprise license and support |
| MS125 | MS125-24-HW | LIC-MS125-24-xY | MS125-24 Enterprise license and support |
| | MS125-24P-HW | LIC-MS125-24P-xY | MS125-24P Enterprise license and support |
| | MS125-48-HW | LIC-MS125-48-xY | MS125-48 Enterprise license and support |
| | MS125-48LP-HW | LIC-MS125-48LP-xY | MS125-48LP Enterprise license and support |
| | MS125-48FP-HW | LIC-MS125-48FP-xY | MS125-48FP Enterprise license and support |
| MS130 | MS130-8-HW | LIC-MS130-CMPT-xY | MS130 compact switch (8/12/R) Enterprise license and support |
| | MS130-8P-HW | LIC-MS130-CMPTA-xY[1] | MS130 compact switch (8/12/R) Enterprise license and support |
| | MS130-8P-I-HW | | |
| | MS130-8X-HW | | |
| | MS130-12X-HW | | |
| | MS130-12X-HW | | |
| | MS130-24-HW | LIC-MS130-24-xY | MS130 24 ports Enterprise license and support |
| | MS130-24P-HW | LIC-MS130-24A-xY[1] | MS130 24 ports Enterprise license and support |
| | MS130-24P-HW | | |
| | MS130-48-HW | LIC-MS130-48-xY | MS130 48 ports Enterprise license and support |
| | MS130-48P-HW | LIC-MS130-48A-xY[1] | MS130 48 ports Advanced license and support |
| | MS130-48X-HW | | |

# Co-term Licensing

MS co-term licenses are available in 1-, 3-, 5-, 7-, and 10-year terms.

| Product | Model | License | Description |
|---------|-------|---------|-------------|
| MS150 | MS150-24T-4G | LIC-MS150-24-xY | MS150 24 ports Enterprise license and support |
| | MS150-24P-4G | LIC-MS150-24A-xY | MS150 24 ports Enterprise license and support |
| | MS150-24T-4X | | |
| | MS150-24P-4G | | |
| | MS150-24T-4X | | |
| | MS150-24P-4X | | |
| | MS150-24MP-4X | | |
| | MS150-48T-4G | LIC-MS150-48-xY | MS150 48 ports Enterprise license and support |
| | MS150-48LP-4G | LIC-MS150-48A-xY | MS150 48 ports Advanced license and support |
| | MS150-48FP-4G | | |
| | MS150-48T-4X | | |
| | MS150-48LP-4X | | |
| | MS150-48FP-4X | | |
| | MS150-48MP-4X | | |
| MS210 | MS210-24-HW | LIC-MS210-24-xY | MS210-24 Enterprise license and support |
| | MS210-24P-HW | LIC-MS210-24P-xY | MS210-24P Enterprise license and support |
| | MS210-48-HW | LIC-MS210-48-xY | MS210-48 Enterprise license and support |
| | MS210-48LP-HW | LIC-MS210-48LP-xY | MS210-48LP Enterprise license and support |
| | MS210-48FP-HW | LIC-MS210-48FP-xY | MS210-48FP Enterprise license and support |
| MS225 | MS225-24-HW | LIC-MS225-24-xY | MS225-24 Enterprise license and support |
| | MS225-24P-HW | LIC-MS225-24P-xY | MS225-24P Enterprise license and support |
| | MS225-48-HW | LIC-MS225-48-xY | MS225-48 Enterprise license and support |
| | MS225-48LP-HW | LIC-MS225-48LP-xY | MS225-48LP Enterprise license and support |
| | MS225-48FP-HW | LIC-MS225-48FP-xY | MS225-48FP Enterprise license and support |

# Licensing

Every license is available in 1-, 3-, 5-, 7-, and 10-year terms.

| Product | Model | License | Description |
|---|---|---|---|
| MS250 | MS250-24-HW | LIC-MS250-24-xY | MS250-24 Enterprise license and support |
| | MS250-24P-HW | LIC-MS250-24P-xY | MS250-24P Enterprise license and support |
| | MS250-48-HW | LIC-MS250-48-xY | MS250-48 Enterprise license and support |
| | MS250-48LP-HW | LIC-MS250-48LP-xY | MS250-48LP Enterprise license and support |
| | MS250-48FP-HW | LIC-MS250-48FP-xY | MS250-48FP Enterprise license and support |
| MS350 | MS350-24-HW | LIC-MS350-24-xY | MS350-24 Enterprise license and support |
| | MS350-24P-HW | LIC-MS350-24P-xY | MS350-24P Enterprise license and support |
| | MS350-24X-HW | LIC-MS350-24X-xY | MS350-24X Enterprise license and support |
| | MS350-48-HW | LIC-MS350-48-xY | MS350-48 Enterprise license and support |
| | MS350-48LP-HW | LIC-MS350-48LP-xY | MS350-48LP Enterprise license and support |
| | MS350-48FP-HW | LIC-MS350-48FP-xY | MS350-48FP Enterprise license and support |
| MS355 | MS355-24X-HW | LIC-MS355-24X-xY | MS355-24X Enterprise license and support |
| | MS355-24X2-HW | LIC-MS355-24X2-xY | MS355-24X2 Enterprise license and support |
| | MS355-48X-HW | LIC-MS355-48X-xY | MS355-48X Enterprise license and support |
| | MS355-48X2-HW | LIC-MS355-48X2-xY | MS355-48X2 Enterprise license and support |
| MS390 | MS390-24E-HW | LIC-MS390-24A-xY | MS390-24 Advanced license and support |
| | MS390-24E-HW | LIC-MS390-24E-xY | MS390-24 Enterprise license and support |
| | MS390-48E-HW | LIC-MS390-48A-xY | MS390-48 Advanced license and support |
| | MS390-48E-HW | LIC-MS390-48E-xY | MS390-48 Enterprise license and support |
| MS410 | MS410-16-HW | LIC-MS410-16-xY | MS410-16 Enterprise license and support |
| | MS410-32-HW | LIC-MS410-32-xY | MS410-32 Enterprise license and support |
| MS425 | MS425-16-HW | LIC-MS425-16-xY | MS425-16 Enterprise license and support |
| | MS425-32-HW | LIC-MS425-32-xY | MS425-32 Enterprise license and support |
| MS450 | MS450-12-HW | LIC-MS450-12-xY | MS450-12 Enterprise license and support |

# Licensing

Every license is available in 1-, 3-, 5-, 7-, and 10-year terms.

| Product | Model | License | Description |
|---|---|---|---|
| Catalyst 9200L-M 24 ports | C9200L-24T-4X-M | LIC-C9200L-24E-xY | Catalyst 9300L-M 24 ports Enterprise license and support |
| | C9200L-24T-4G-M | LIC-C200L-24A-xY | Catalyst 9200L-M 24 ports Advanced license and support |
| | C9200L-24P-4X-M | | |
| | C9200L-24P-4G-M | | |
| | C9200L-24PXG-4X-M | | |
| | C9200L-24PXG-2Y-M | | |
| Catalyst 9200L-M 48 ports | C9200L-48T-4X-M | LIC-C9200L-48E-xY | Catalyst 9200L-M 48 ports Enterprise license and support |
| | C9200L-48T-4G-M | LIC-C9200L-48A-xY | Catalyst 9200L-M 48 ports Enterprise license and support |
| | C9200L-48PL-4X-M | | |
| | C9200L-48P-4X-M | | |
| | C9200L-48P-4G-M | | |
| | C9200L-48PL-4G-M | | |
| | C9200L-48PXG-4X-M | | |
| | C9200L-48PXG-2Y-M | | |
| Catalyst 9300-M 24 ports | C9300-24T-M | LIC-C9300-24E-xY | Catalyst 9300-M 12, 24 ports Enterprise license and support |
| | C9300-24P-M | LIC-C9300-24A-xY | Catalyst 9300-M 12, 24 ports Advanced license and support |
| | C9300-24U-M | | |
| | C9300-24UX-M | | |
| Catalyst 9300L-M 24 ports | C9300L-24T-4X-M | | |
| | C9300L-24P-4X-M | | |
| | C9300L-24UXG-4X-M | | |

# Licensing

Every license is available in 1-, 3-, 5-, 7-, and 10-year terms.

| Product | Model | License | Description |
|---|---|---|---|
| Catalyst 9300X-M 12 and 24 ports | C9300X-24HX-M | | |
| | C9300-24S-M | | |
| | C9300X-12Y-M | | |
| | C9300X-24Y-M | | |
| Catalyst 9300-M 48 ports | C9300-48T-M | LIC-C9300-48E-xY | Catalyst 9300-M 48 ports Enterprise license and support |
| | C9300-48P-M | LIC-C9300-48A-xY | Catalyst 9300-M 48 ports Advanced license and support |
| | C9300-48U-M | | |
| | C9300-48UXM-M | | |
| | C9300-48UN-M | | |
| Catalyst 9300X-M 48 ports | C9300L-48T-4X-M | | |
| | C9300L-48P-4X-M | | |
| | C9300L-48PF-4X-M | | |
| Catalyst 9300X-M 48 ports | C9300X-48UXG 4X-M | | |
| | C9300X-48TX-M | | |
| | C9300X-48HX-M | | |
| | C9300X-48HXN-M | | |
| | C9300-48S-M | | |

# Optional accessories

| Description | Accessory | Supported models |
|---|---|---|
| Power cable | Region-specific power cords are not included in the box. Order the appropriate power cord separately:<br><br>MA-PWR-CORD-US    MA-PWR-CORD-BR<br>MA-PWR-CORD-EU    MA-PWR-CORD-TW<br>MA-PWR-CORD-UK    MA-PWR-CORD-AU<br>MA-PWR-CORD-CN    MA-PWR-CORD-AR<br>MA-PWR-CORD-IN | All models |
| 150 W power adapter | MA-PWR-150WAC-ADP | MS130-8X and MS130-8P |
| 300 W power adapter | MA-PWR-300WAC-ADP | MS130-12X |
| 30 W power adapter | MA-PWR-30WAC | MS130-8 |
| 300 W power adapter for MS130R[1] | MA-PWR-300W-INDADP | MS130R |
| External power supply | DC 54 V/1.67 A, 90 W, MA-PWR-90WAC<br>DC 12 V/2.5 A, 30 W, MA-PWR-30WAC | MS120-8, MS120-8-LP |
| 250 W power supply | MA-PWR-250WAC | MS250-24, MS250-48, MS350-24, MS350-48, MS410, MS425 |
| 640 W power supply | MA-PWR-640WAC | MS250-24P, MS250-48LP, MS350-24P, MS350-48LP |
| 1,025 W power supply | MA-PWR-1025WAC | MS250-24P, MS250-48FP, MS350-24X, MS350-48FP,<br>all MS355 models |
| 350 W power supply | MA-PWR-350WAC | MS390-24HW, MS390-48HW |
| 715 W power supply | MA-PWR-715WAC | All MS390 models |
| 1,100 W power supply | MA-PWR-1100WAC | All MS390 models |
| 40G stacking cable<br>(0.5 m, 1 m, and 3 m) | MA-CBL-40G-50CM<br>MA-CBL-40G-1M<br>MA-CBL-40G-3M | MS210, MS225, MS250, MS350, MS410, and MS425 |
| 100G stacking cable<br>(0.5 m, 1 m, and 3 m) | MA-CBL-100G-50CM<br>MA-CBL-100G-1M<br>MA-CBL-100G-3M | MS355 and MS450 |
| 16K system fan | MA-FAN-16K | MS350-24, MS350-24P, MS350-48, MS350-48LP,<br>MS350-48FP, MS410 |
| 18K system fan | MA-FAN-18K | MS350-24X, MS425 series |
| StackPower cables | MA-CBL-SPWR-30CM<br>MA-CBL-SPWR-150CM | All MS390 models |

Meraki MS switches support SFP/SFP+/QSFP+ optic accessories for high-speed connectivity. Meraki offers a variety of GbE, 10 GbE, and 40 GbE accessories. Full specifications and compatibility information is available in the Meraki accessories datasheet.

[1] Please note, U.S. free power cord logic does not apply on the MS130R switch itself. A free power cord will be automatically added to U.S. orders with MA-PWR-300W-INDADP when there is  no power cord in the same order.

# Optional accessories

| Description | Accessory | Supported models |
|---|---|---|
| Stacking cables | MA-CBL-120G-50CM<br>MA-CBL-120G-1M<br>MA-CBL-120G-3M | All MS390 models |
| 8× 1/10G SFP+ uplink module | MA-MOD-8×10G | All MS390 models |
| 4× 1/10G SFP+ uplink module | MA-MOD-4×10G[1] | All MS390 models |
| 2× 40G QSFP+ uplink module | MA-MOD-2×40G | All MS390 models |
| 16K2 system fan | MA-FAN-16K2 | All MS390 models |
| 350 W AC platinum power supply | PWR-C1-350WAC-P-M | Catalyst 9300X-M and Catalyst 9300L-M |
| 715 W AC platinum power supply | PWR-C1-715WAC-P-M | |
| 1,100 W AC platinum power supply | PWR-C1-1100WAC-P-M | |
| 1,900 W AC platinum power supply | PWR-C1-1900WAC-P-M | Catalyst 9300X-M models and Catalyst 9300-M models |
| C9300L 1M Type 3A Stacking Cable used with KIT2 | STACK-T3A-1M-M | Catalyst 9300L-M models |
| C9300L 3M Type 3A Stacking Cable used with KIT2 | STACK-T3A-3M-M | |
| C9300L 50CM Type 3A Stacking Cable used with KIT2 | STACK-T3A-50CM-M | |
| C9300L-M Stack Kit | C9300L-STAK-KIT2-M | Catalyst 9300L-M models |
| 2× 1/10/25G SFP/SFP+ uplink module | C9300-NM-2Y-M | Catalyst 9300-M models |
| 8× 1/10/25G SFP28 uplink module | C9300X-NM-8Y-M | Catalyst 9300X-M models |
| 2× 40G/100G QSFP28 uplink module | C9300X-NM-2C-M | |
| Catalyst 9300-M StackPower cable, 30 cm | CAB-SPWR-30CM-M | Catalyst 9300-M series |
| Catalyst 9300-M StackPower cable, 150 cm | CAB-SPWR-150CM-M | Catalyst 9300-M series |
| Catalyst 9300-M stacking cable, 0.5 m | STACK-T1-50CM-M | Catalyst 9300-M models and Catalyst 9300X-M models |
| Catalyst 9300-M stacking cable, 1 m | STACK-T1-1M-M | |
| Catalyst 9300-M stacking cable, 3 m | STACK-T1-3M-M | |
| System fan | FAN-T2-M | All Catalyst 9300-M/9300L-M/9300X-M models |
| Catalyst 9300-M rack mount kit | 4PT-KIT-T2-M | Catalyst 9300-M series |
| 2× 40G uplink module | C9300-NM-2Q-M | Catalyst 9300-M series |
| 8× 10G/1G uplink module | C9300-NM-8X-M | Catalyst 9300-M series |

[1] MA-MOD-4× 10G reached end-of-sale on November 1, 2021. Please refer to its end-of-sale announcement for further details.

# Additional resources

**Meraki MS120 series datasheet**

**Meraki MS125 series datasheet**

**Meraki MS130 series datasheet**

**Meraki MS130R series datasheet**

**Meraki MS210 series datasheet**

**Meraki MS225 series datasheet**

**Meraki MS250 series datasheet**

**Meraki MS350 series datasheet**

**Meraki MS355 series datasheet**

**Meraki MS390 series datasheet**

**Meraki MS410 series datasheet**

**Meraki MS425 series datasheet**

**Meraki MS450 series datasheet**

**Catalyst 9300-M series datasheet**

**Catalyst 9200L-M series datasheet**

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