

Meraki MS Series Switches

FAMILY DATASHEET



Overview

Cisco Meraki offers a broad range of switches, built from the ground up to be easy to manage without compromising any of the power and flexibility traditionally found in traditional enterprise-class switches.

Meraki access & 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.

To set up a Meraki switch, just plug it in; there's no need for repetitive, command-based configuration, and switches can be up and running within minutes of connecting them to the network.

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, QoS, and more. The Meraki dashboard provides unified policies, event logs, and monitoring, making it easy to manage network deployments without sacrifice.

PRODUCT HIGHLIGHTS

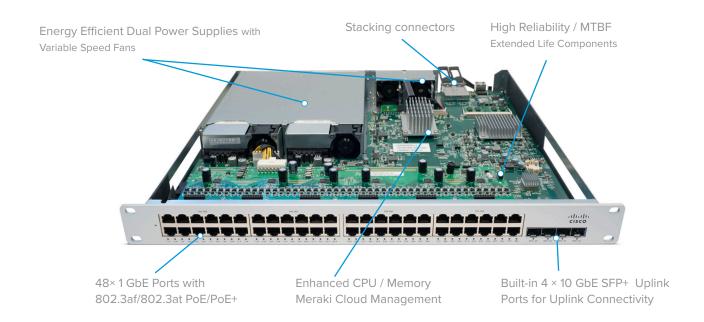
- Range of enterprise switching options built on proven Cisco hardware technologies
- Basic L2 to high-performance L3 switches with upto 40GbE uplinks on access and upto 100GbE on aggregation switches, suitable for deployments of all sizes
- True zero-touch configuration model that scales with organization needs and requirements
- Integrated troubleshooting tools, logging and alerting reduce operational costs
- Energy efficient design with low acoustics and fanless options

- Flexible stacking for scaled configuration and high performance in one
- Cloud management reduces cost, overhead and time to resolution
- Industry-standard features allow for simple integration into existing and mixed infrastructures
- Role-based administration and automatic, secure firmware updates delivered via the web
- StackPower, Improved physical stacking, and multiGig options on select models

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Inside the Meraki MS

MERAKI MS350-48FP SHOWN, VARIES BY MODEL



ENTERPRISE-CLASS HARDWARE

Meraki switches feature high-end hardware and an exceptional feature set, including:

- Options for fixed and modular uplinks. GbE, 10 GbE and 40 GbE uplink ports for high-speed connectivity to aggregation layer switches or other upstream devices
- Optional Multigigabit ports providing up to 10Gbps on a single Ethernet cable, supporting the latest WiFi performance capabilities
- Wire-speed, non-blocking switch fabric (up to 800 Gbps) and 6 dedicated QoS queues for high-performance, converged voice, video, and data deployments
- Power efficient, quiet acoustic designs, and shallow rack depth options, enabling flexible deployment in wiring closets as well as offices and classrooms
- · Fanless design on select models
- Power over Ethernet,PoE+ and UPoE options available
- Up to 740 watt PoE budget with PoE+ support for powering APs, phones, cameras, and other PoE enabled devices (124W for 120-8 series), with 830W available on the MS390 UPoE model
- Lifetime hardware warranty and advanced replacement at no additional cost
- Field-replaceable, hot-swappable power supplies and fans. RPS option for mission-critical applications. StackPower on select models for added resilience.

POWERFUL FEATURE SET FOR DEPLOYMENTS OF ALL TYPES

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

- Quality-of-Service (QoS) to prioritize mission critical traffic such as voice and video
- IEEE 802.1X support for port based network access control
- · MAC-based RADIUS auth and MAC whitelisting
- Voice VLAN support for simplified VoIP deployments
- Port Mirroring support for monitoring network traffic at line rate
- DHCP snooping to prevent users from adding unauthorized DHCP servers on the network
- IGMP Snooping to optimize network performance with multicast traffic
- Link Aggregation Control Protocol (LACP) for high-capacity trunking, stacking, and increased availability
- Rapid spanning tree, BPDU guard, root guard, and other safeguards to help prevent misconfigurations and reduce convergence time
- · Per port VLAN configuration
- Multiple administrative roles with sophisticated security policy management
- High-performance layer 3 routing capabilities on select models

Meraki Access Switching Portfolio

Series	MS120-8	MS120	MS125
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Deployment type	Compact	Small branch & office	Small branch & office
Interfaces	8 x 1GbE RJ45	24 / 48 x 1GbE RJ45	24 / 48 x 1GbE RJ45
Uplinks	2 x 1GbE SFP Fixed	4 x 1GbE SFP Fixed	4 x 10 GbE SFP Fixed
PoE capabilities	67W (LP model) 124W (FP model)	370W (P, LP models) 740W (FP model)	370W (P, LP models) 740W (FP model)
Power External PSU (non-PoE, LP model) configuration 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 MS120-8LP-HW MS120-8FP-HW	MS120-24-HW MS120-24P-HW MS120-48-HW MS120-48LP-HW MS120-48FP-HW	MS125-24-HW MS125-24P-HW MS125-48-HW MS125-48LP-HW MS125-48FP-HW

Meraki Stackable Access Switching Portfolio

Series	MS210	MS225	MS250
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Deployment	Branch &	Branch &	Branch &
type	Small campus	Small campus	Campus
Interfaces	24 / 48 x 1GbE RJ45	24 / 48 x 1GbE RJ45	24 / 48 x 1GbE RJ45
Uplinks	4 x 1GbE SFP	4 x 10GbE SFP+	4 x 10GbE SFP+
	Fixed	Fixed	Fixed
PoE	370W (P, LP models)	370W (P, LP models)	370W (P, LP models)
capabilities	740W (FP models)	740W (FP models)	740W (FP models)
Power configuration	Internal	Internal	Modular
	Optional RPS	Optional RPS	Redundant PSU optional
Stacking capabilities	Compatible with MS225 80G physical + virtual	Compatible with MS210 80G physical + virtual	80G physical + virtual
Routing	Static only	Static only	Static + Dynamic ² DHCP Server + Relay Warm spare (VRRP)
capabilities	DHCP Relay	DHCP Relay	
Models	MS210-24-HW	MS225-24-HW	MS250-24-HW
	MS210-24P-HW	MS225-24P-HW	MS250-24P-HW
	MS210-48-HW	MS225-48-HW	MS250-48-HW
	MS210-48LP-HW	MS225-48LP-HW	MS250-48LP-HW
	MS210-48FP-HW	MS225-48FP-HW	MS250-48FP-HW

² Detailed routing specifications are available in series datasheets

Meraki Stackable Access Switching Portfolio

Series	MS350	MS355	MS390

Deployment type	Campus & Multigigabit	Branch & Small campus	High-performance Campus & Branch
Interfaces	24 / 48 x 1GbE RJ45' 8 x XGbE RJ45 (24X only)	24 / 48 x 1GbE RJ45 8 x XGbE RJ45 (24X only)	24 / 48 x 1GbE RJ45 24 / 48x XGbE RJ45 (in select models)*
Uplinks	4 x 10GbE SFP+ Fixed	2 × 40G (QSFP+) Fixed	4/8 x 10GbE SFP+ 2 x 40GbE QSFP Modular
PoE capabilities	370W (P, LP models) 740W (24X, FP models)	740W (24 port, X2 models) 740W (48 port, X2 models	830W (24 port models) 822W (48 port models)
Power configuration	Modular Redundant PSU optional	Removable PSU	Removable PSU
Stacking capabilities	160G physical + virtual	400G physical + virtual	Compatible only with MS390 480G physical + virtual
Routing capabilities	Static + Dynamic ² DHCP Server + Relay Warm spare (VRRP)	Static + Dynamic DHCP Server + Relay	Static + Dynamic DHCP Server + Relay
Models	MS350-24-HW MS350-24P-HW MS350-24X-HW MS350-48-HW MS350-48LP-HW MS350-48FP-HW	MS355-24-HW MS355-24X-HW MS355-48-HW MS355-48X-HW MS355-48X2-HW	MS390-24-HW MS390-24P-HW MS390-24U-HW MS390-24UX-HW MS390-48-HW MS390-48P-HW MS390-48U-HW MS390-48UX-HW

Meraki Aggregation Switching Portfolio

Series	MS410	MS425	MS450
Deployment type	1G fiber aggregation	10G fiber aggregation	10G fiber aggregation
Interfaces	16 / 32 x GbE SFP	16 / 32 x 10GbE SFP+	12x 40GbE QSFP+
Uplinks	2 x 10GbE SFP+ (MS410-16) 4 x 10GbE SFP+ (MS410-32)	2 x 40GbE QSFP+	2 x 100GbE QSFP28
Power configuration	Modular Redundant PSU optional (sold separately)	Modular Redundant PSU optional (sold separately)	Modular Redundant PSU optional (sold separately)
Stacking capabilities	160G physical + virtual	Front-port 160G + virtual	Front-port 160G + virtual
Routing	Static + Dynamic DHCP Server + Relay Warm spare (VRRP)	Static + Dynamic DHCP Server + Relay Warm spare (VRRP)	Static + Dynamic DHCP Server + Relay Warm spare (VRRP)
Models	MS410-16-HW MS410-32-HW	MS425-16-HW 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. Meraki's simplified software and support licensing model also combines all 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 & 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. Meraki's Virtual Stacking technology eliminates the need for configuration scripts and commands, empowering administrators to make changes quickly and securely on one or all the switches in a deployment at once.

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.

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.

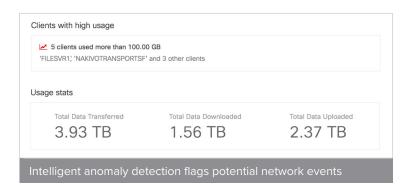
With Meraki's dynamic network topology, see how the entire network is interconnected, automatically.

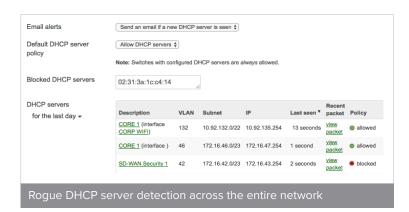
Ensure the entire team receives alerts upon power loss, downtime, or configuration changes.

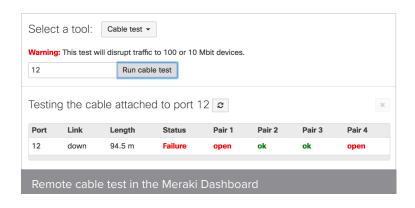
STACKPOWER AND, IMPROVED PHYSICAL STACKING

StackPower pools power from each individual PSU in a switch stack to form a larger, shared pool of power that provides additional redundancy and also helps saves cost by managing the available PoE more efficiently.

Improved Physical stacking helps in faster-stack convergence in case of a failover which is critical in large enterprise deployments.



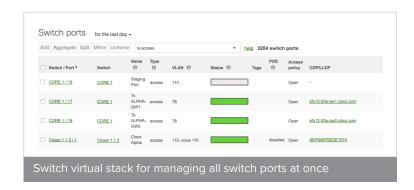




INDUSTRY LEADING CLOUD MANAGEMENT

Meraki's cloud management architecture delivers true zero-touch switch provisioning – configure switches before they arrive onsite, or use Meraki templates to standardize an entire fleet of switches, no matter what size.

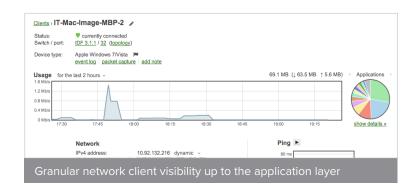
With Meraki Virtual stacking, administrators can manage up to thousands of ports from a single pane of glass, enabling rapid and streamlined configuration that could otherwise take weeks to complete.



BUILT-IN APPLICATION LAYER VISIBILITY

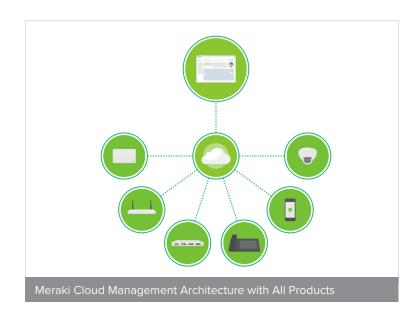
Meraki is the only switch to include integrated Layer 7 fingerprinting. Identify hundreds of applications from business apps to BitTorrent and YouTube.

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 optimizing of network resources and maintaining optimal network performance.



BEYOND-THE-NETWORK SOFTWARE ARCHITECTURE

Meraki switches run the same Meraki operating system used by all of Meraki's products. The use of a common operating system allows Meraki to deliver a consistent experience across all product lines, from our Security products to our VoIP phones. When connected, MS350 switches automatically connect to the Meraki cloud, download 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 upto-date with bug fixes, security updates, and new features.



Included In the Box

MS120-8 Series	Integrated mounting brackets, External PSU (non-PoE and LP models), Mounting screw kit, Getting started insert	
MS120 Series	Mounting screw kit, Getting started insert	
MS210 Series	Mounting screw kit, Getting started insert	
MS225 Series	Mounting screw kit, Getting started insert	
MS250 Series	Power Supply (1), System fans (2), Mounting screw kit, Getting started insert	
MS350 Series	Stacking cable (1), Power Supply (1), system fans (2), Mounting screw kit, Getting started insert	
MS390 Series	Power Supply (1), System fans (3), Mounting screw kit, Getting started insert	
MS410 Series	Power Supply (1), System fans (2), Mounting screw kit, Getting started insert	
MS425 Series	Power Supply (1), System fans (3), Mounting screw kit, Getting started insert	
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Optional Accessories

DESCRIPTION	ACCESSORY	SUPPORTED MODELS
Power cable	MA-PWR-CORD-US MA-PWR-CORD-EU MA-PWR-CORD-UK MA-PWR-CORD-AU	All models
External Power Supply	DC 54V/1.67A, 90W, MA-PWR-90WAC DC 12V/2.5A, 30W, MA-PWR-30WAC	MS120-8, MS120-8-LP
250W Power Supply	MA-PWR-250WAC	MS250-24, MS250-48, MS350-24, MS350-48, MS410 models, MS425 models
640W Power Supply	MA-PWR-640WAC	MS250-24LP, MS250-48LP, MS350-24P, MS350-48LP
1025W Power Supply	MA-PWR-1025WAC	MS250-24FP, MS250-48FP, MS350-24X, MS350-48FP
350W Power Supply	MA-PWR-350WAC	MS390-24HW, MS390-48HW
715W Power Supply	MA-PWR-715WAC	MS390 models
1100W Power Supply	MA-PWR-1100WAC	MS390 models
Meraki Stacking Cable, 0.5 Meter	MA-CBL-40G-50CM	All MS210, MS225, MS250, MS350, MS410 models, MS425 models
Meraki Stacking Cable, 1 Meter	MA-CBL-40G-1M	All MS210, MS225, MS250, MS350, MS410 models, MS425 models

Meraki MS switches support SFP/SFP+/QSFP+ optic accessories for high-speed connectivity. Meraki offers a variety of GbE, 10GbE and 40GbE accessories. Full specifications and compatibility information is available in the Meraki Accessories datasheet: https://meraki.cisco.com/lib/pdf/meraki_datasheet_sfp.pdf

Optional Accessories

DESCRIPTION	ACCESSORY	SUPPORTED MODELS
Meraki Stacking Cable, 3 Meter	MA-CBL-40G-3M	All MS210, MS225, MS250, MS350, MS410 models, MS425 models
16K System Fan	MA-FAN-16K	MS350-24, MS350-24P, MS350-48, MS350-48LP, MS350-48FP, MS410 models
18K System Fan	MA-FAN-18K	MS350-24X, MS425 Series
StackPower Cables	MA-CBL-SPWR-30CM MA-CBL-SPWR-150CM	MS390 models
Stacking Cables	MA-CBL-120G-50CM MA-CBL-120G-1M MA-CBL-120G-3M	MS390 models
8 x 1/10G SFP+ Uplink Module	MA-MOD-8x10G	MS390 models
4 x 1/10G SFP+ Uplink Module	MA-MOD-4x10G	MS390 models
2 x 40G QSFP+ Uplink Module	MA-MOD-2x40G	MS390 models
16K2 System Fan	MA-FAN-16K2	MS390 models

Meraki MS switches support SFP/SFP+/QSFP+ optic accessories for high-speed connectivity. Meraki offers a variety of GbE, 10GbE and 40GbE accessories. Full specifications and compatibility information is available in the Meraki Accessories datasheet: https://meraki.cisco.com/lib/pdf/meraki_datasheet_sfp.pdf

Additional Resources

Meraki MS120-8 Compact Series Datasheet

https://meraki.cisco.com/lib/pdf/meraki_datasheet_ms120_compact.pdf

Meraki MS120 Series Datasheet

https://meraki.cisco.com/lib/pdf/meraki_datasheet_ms120.pdf

Meraki MS210 Series Datasheet

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Meraki MS225 Series Datasheet

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Meraki MS250 Series Datasheet

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Meraki MS355 Series Datasheet

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Meraki MS390 Series Datasheet

https://documentation.meraki.com/MS/MS_Overview_and_Specifications/MS390_Datasheet

Meraki MS400 Series Datasheet

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Meraki SFP & Stacking Accessories Datasheet

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Cost Calculator

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