



Cette documentation produit Cisco Meraki vous est fournie par :

bouchecousue
conseil en informatique

BoucheCousue est une société de conseil en informatique basée à Paris et **revendeur agréé Cisco Meraki** depuis 2011.

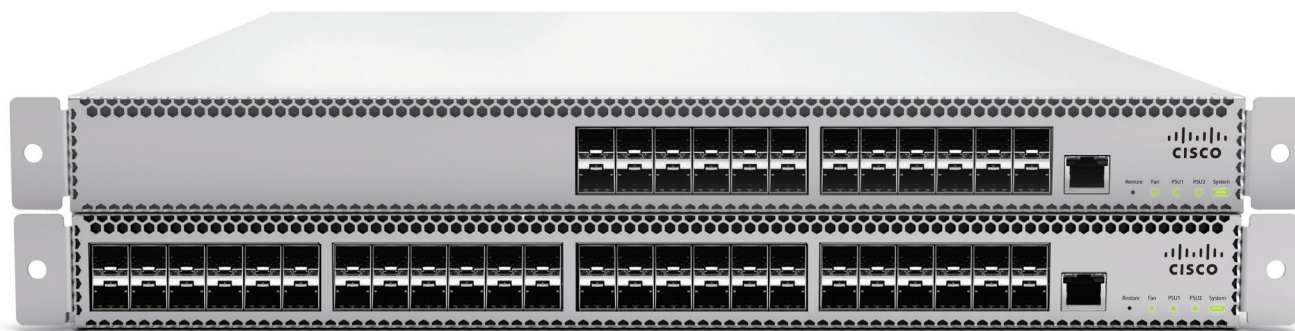
Si vous avez des questions, un projet réseau pouvant bénéficier de la solution & des produits Cisco Meraki, **n'hésitez pas à nous contacter :**

hello@bouchecousue.com mais également par téléphone : +33 1 83 62 52 34

Retrouvez aussi sur notre blog les dernières actualités Cisco Meraki ainsi que des astuces & informations utiles.

Notre site: <https://bouchecousue.com>

Cisco Meraki MS Cloud Managed 10 Gigabit Ethernet Aggregation Switch



Overview

The Cisco Meraki MS is the world's first cloud-managed 10 Gigabit Ethernet aggregation switch bringing the benefits of the cloud: simplified management, reduced complexity, network wide visibility and control, and lower cost for campus deployments.

Expanding Cloud Management to the Campus

Cisco Meraki aggregation switches extend Meraki's cloud management to campus deployments. Just like our access switches, these 10 Gigabit Ethernet aggregation switches are built from the ground up to be easy to manage without compromising any of the power and flexibility traditionally found in enterprise-class switches.

Meraki switches are managed through an elegant, intuitive cloud interface, rather than a cryptic command line. To bring up a Meraki switch, just plug it in; there's no need for complicated configuration files — or pre-staging.

Industry-Leading Cloud Management

Cloud management has a number of benefits that make it easier to build campus networks:

- Centralized management that allows you to manage your entire Meraki network stack from campus aggregation to your access layer (wireless APs, switches, firewalls).
- Virtual stacking: manage up to tens of thousands of ports from a single pane of glass.
- Layer 7 OS, client, and hostname fingerprinting.
- E-mail and SMS (text) alerts upon power loss, downtime, or configuration changes.
- Role-based administration and automatic, scheduled firmware upgrades over the web.
- Regular feature updates and enhancements delivered on demand from the Meraki cloud.
- No staging deployments

Meraki switches feature high-end hardware features, including:

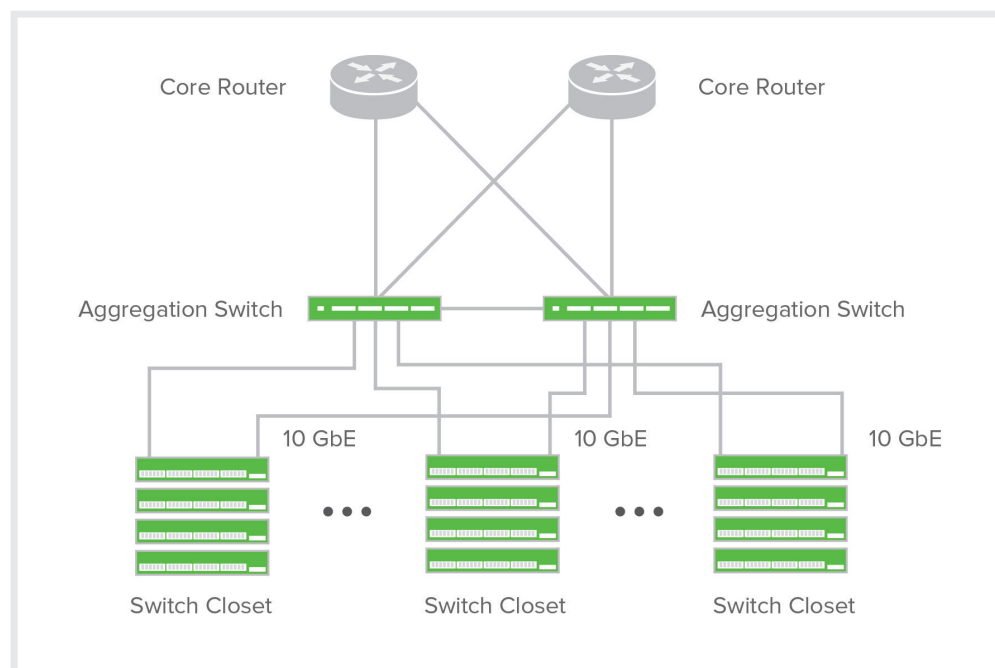
- Compact, 1RU design for space-constrained environments
- Up to 960 Gbps of non-blocking switching capacity
- Field-replaceable, hot-swappable power supplies
- Field-replaceable, hot-swappable fans
- Front-to-back cooling
- 10/100/1000 RJ-45 management port
- Low power consumption and shallow rack depth, which enable flexible deployment

Full Enterprise Feature Set

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 to monitor network traffic
- 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
- Broadcast storm protection, spanning tree, BPDU guard, root guard, and other safeguards to guard against misconfigurations and reduce convergence time
- Per port VLAN configuration
- Multiple administrative roles with sophisticated security policy management

Designed for a Complete Cloud-Managed Switch Network



Lifetime Warranty with Next-day Advanced Replacement

Cisco Meraki MS switches include a limited lifetime hardware warranty that provides next-day advance hardware switch replacement as long as the original purchaser owns the product. 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 www.meraki.com/support

Accessories / Optics

The Meraki MS support pluggable optics for high-speed connectivity. Meraki offers several standards-based Gigabit and 10 Gigabit pluggable modules.

Supported Meraki accessory modules for MS Switches (no lock-out of third-party optics):

Model	Description	Standard	Range	Compatibility
MA-SFP-1GB-TX	Meraki 1GbE Module for Category 5 Copper Wire, RJ-45	1000BASE-T	100m	MS220/320/420 Family
MA-SFP-1GB-SX	Meraki 1 GbE SFP SX Multi-Mode Fiber Module	1000BASE-SX	550m	MS220/320/420 Family
MA-SFP-1GB-LX10	Meraki 1 GbE SFP LX10 Single-Mode Fiber Module	1000BASE-LX10	10km	MS220/320/420 Family
MA-SFP-10GB-SR	Meraki 10 GbE SFP+ SR Multi-Mode Fiber Module	10GBASE-SR	400m	MS320/420 Family
MA-SFP-10GB-LRM	Meraki 10GbE SFP+ LRM Multi-Mode Fiber Module	10GBASE-LRM	220m	MS320/420 Family
MA-SFP-10GB-LR	Meraki 10 GbE SFP+ LR Single-Mode Fiber Module	10GBASE-LR	10km	MS320/420 Family
MA-CBL-TA-1M	Meraki 10 GbE Twinax Cable with SFP+ Connectors	10GSFP+Cu	1m	MS320/420 Family

Note: Meraki SFPs use LC connectors. Meraki does not guarantee third-party optic and support.

Product Options

Switch models available (see Specifications for additional details):

Model	Description
MS420-24-HW	Cloud-managed 24 port 10 GbE aggregation switch
MS420-48-HW	Cloud-managed 48 port 10 GbE aggregation switch

Specifications

Management
Managed via the Web via the Meraki cloud management platform
Integrated with Meraki wireless, security appliance, and device management No-touch remote deployment (no staging needed)
Detailed historical per-port and per-client usage statistics
DHCP, client, and hostname fingerprinting
SNMP and traps
Seamless firmware upgrades

Remote Diagnostics
Email and SMS (text) alerts ¹
Live remote packet capture
Aggregated event and configuration change logs with instant search

Scalable Stacking
Unified configuration and monitoring of all switches from the aggregation layer to access layer
Virtually Stacking supports thousands of switch ports in a single logical stack for unified management, monitoring, and configuration

Ethernet Switching Capabilities
802.1p Quality of Service prioritization
802.1Q VLAN tagging for up to 4095 VLANs
802.1D Spanning Tree Protocol (STP) and 802.1w Rapid Spanning Tree Broadcast storm control
802.1ab Link Layer Discovery Protocol (LLDP)
802.3ad Link aggregation with up to 8 ports per aggregate
IGMP snooping for multicast filtering
Cisco Discovery Protocol (CDP)

Layer 3 capabilities
Static routing
DHCP helper
DHCP server
Open shortest path first (OSPF v2)
Warm spare for L3 gateway redundancy
Automatic DHCP failover in warm spare mode

Performance
Non-blocking fabric
960 Gbps switching capacity on the MS420-48
480 Gbps switching capacity on the MS420-24
1.2 microsecond latency

Interfaces on MS420-24-HW
24x 1000/10GbE SFP/SFP+
1x 10/100/1000 RJ45 Management port

Interfaces on MS420-48-HW
48x 10GbE SFP+/SFP
1x 10/100/1000 RJ45 Management port

Power
Power input: 100 - 240 VAC, 47-63 Hz (2 x 400WAC PSU)

Environment
Operating temp: 0C to 40C

Mounting
Rack-mountable with included rack mount hardware
Front-to-back airflow

Physical dimensions
Weight: 18.1 lb. (8.18kg) for MS420-48
Size: 17.3" (w) x 18.6" (d) x 1.8" (h) (44x 47.3x4.5 cm)

Regulatory
CSA (US)
IC (Canada)
CE (Europe)
C-Tick (Australia/New Zealand)
RoHS

Warranty
Full lifetime hardware warranty with next-day advanced replacement included

Model	MTBF
MS420-24	225,540
MS420-48	203,102

¹ Requires carrier-supported email to SMS gateway. For more information visit: <http://bit.ly/LikOSQ>



Vous souhaitez en savoir plus sur Cisco Meraki et essayer la solution gratuitement? Plusieurs options s'offrent à vous.

En autonomie:

- **Webinar :** Participez à un webinar Cisco Meraki en cliquant [ici](#) et recevez ultérieurement un équipement gratuit¹ (comme une borne WiFi, un switch)
- **Try & Buy :** Essayez le matériel Cisco Meraki gratuitement en cliquant [ici](#). A la fin de votre essai vous pouvez décider de garder & acheter le matériel ou le renvoyer.

Avec notre accompagnement:

Contactez-nous par téléphone (+33 1 83 62 52 34) ou par email à hello@bouhecousue.com en nous précisant votre projet. Nous pourrions choisir ensemble le matériel adapté à votre besoin et vous le faire essayer.

Retrouvez aussi nos coordonnées postales sur cette page : <https://bouhecousue.com/contact/> si vous souhaitez convenir d'un rendez-vous.

¹ Nécessite l'éligibilité à des critères définis par Cisco Meraki, vérifiez que vous êtes éligible sur le site de Cisco Meraki