# MX Family

## Meraki MX Cloud-Managed Security and SD-WAN

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## Overview

The Cisco Meraki™ MX is a multifunctional security and SD-WAN enterprise appliance with a wide set of capabilities to address multiple use cases—from an all-in-one device. Organizations of all sizes and across all industries rely on the MX to deliver secure connectivity to hub locations or multicloud environments, as well as application Quality of Experience (QoE), through advanced analytics with machine learning.

The MX is 100% cloud managed, so installation and remote management are truly zero touch, making it ideal for distributed branches, campuses, and data center locations. Natively integrated with a comprehensive suite of secure network and assurance capabilities, the MX eliminates the need for multiple appliances. These capabilities include application-based firewalling, content filtering, web search filtering, Snort®-based intrusion detection and prevention, Cisco® Advanced Malware Protection (AMP), site-to-site Auto VPN, client VPN, WAN and cellular failover, dynamic path selection, web application health, VoIP health, and more. SD-WAN can easily be extended to deliver optimized access to resources in public and private cloud environments with virtual MX (vMX) appliances. Public clouds supported with vMX include Amazon Web Services (AWS), Microsoft Azure, Google Cloud, and Alibaba Cloud.

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## Advanced QoE analytics

- Monitor end-to-end health of web applications at a glance across the LAN, WAN, and application server
- Gain enhanced visibility and alerting into WAN applications and infrastructure
- Have machine-learned smart application thresholds applied autonomously to identify true anomalies based on past behavioral patterns
- Monitor the health of all MX WAN links, including cellular, across your entire organization

## Agile on-premises and cloud security capabilities informed by Cisco Talos

- Next-generation Layer 7 firewall for identity-based security policies and application management
- Advanced malware protection with sandboxing; file reputation-based protection engine powered by Cisco AMP
- Intrusion prevention (IPS): Payment Card Industry (PCI)-compliant IPS sensor using industry-leading Snort signature database from Cisco Talos
- Granular and automatically updated category-based content filtering
- Other capabilities: SSL decryption/inspection, data loss prevention (DLP), cloud access security broker (CASB), software-as-a-service (SaaS) tenant restrictions, granular app control, file type control
- Unified secure access service edge (SASE) and security service edge (SSE) through Cisco Secure Access and Cisco Secure Connect
- Native integration with Cisco Extended Detection and Response (XDR) for AI-driven analytics, providing fast incident response

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## Branch gateway services

- Built-in Dynamic Host Configuration Protocol (DHCP), Network Address Translation (NAT), quality of service (QoS), and VLAN management services
- Support for network segmentation and multitenancy with Virtual Routing and Forwarding (VRF) capability
- Multi-WAN support (depending on model): Ability to use multiple (up to two, three, or even four) WAN uplinks on the Cisco 8000 Series Secure Routers
- Web caching[3]: Accelerates frequently accessed content. Refer to the SD-WAN and Traffic Shaping page for supported platforms
- Load balancing: Combines multiple WAN links to provide an aggregated high-performance path with policies for QoS, traffic shaping, and failover
- Smart connection monitoring provides automatic detection of Layer 2 and Layer 3 outages and fast failover, including the option of integrated 5G or LTE Advanced (4G/3G) cellular modems
- Support for a 5G cellular (as primary or backup) connection with MG52/E as cellular gateway
- Support for Border Gateway Protocol (BGP) communities and attributes, including AS Path Prepend, MED, and Weight

## Industry-leading cloud management

- Unified firewall, switching, wireless LAN, cameras, IoT sensors, SASE, and mobile device management through an intuitive web-based dashboard
- Template-based settings that scale easily from small deployments to tens of thousands of devices
- Role-based administration, configurable email alerts for a variety of important events, and easily auditable change logs
- Framework to unify and simplify the configuration and management of network and security policies across the platform and then reuse those across many policies in an organization
- Supported by the Cisco Assistant, a copilot that helps IT teams understand, troubleshoot, and operate their network faster and more efficiently
- Integration of Cisco Secure Access with the Meraki dashboard
- Summary reports with user, device, and application usage details archived in the cloud
- Support for sending encrypted syslog messages

[3]Cisco 8000 Series Secure Routers do not support web caching

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## Intelligent site-to-site VPN with Cisco Meraki SD-WAN

- Auto VPN allows automatic VPN route generation using IKE/IKEv2/IPsec setup; runs on physical MX appliances and as a virtual instance in public and private clouds
- SD-WAN with active/active VPN, policy-based routing, dynamic VPN path selection, and support for application-layer performance profiles to help ensure prioritization of application types that matter
- Support for Local Internet Breakout ability to use Network-Based Application Recognition (NBAR) to configure Layer 3 (and some Layer 7) rules to determine exceptions to a full-tunnel VPN configuration
- Interoperates with all IPsec VPN devices and services
- Automated MPLS to VPN failover within seconds of a connection failure
- Layer 2 TP IPsec remote client VPN included with support for native Windows, Mac OS X, iPad, and Android clients
- Support for Cisco Secure Client remote client VPN (Secure Client license required)

## Mix-and-match Meraki and Cisco Catalyst SD-WAN

- A native and resilient link can easily be established between Meraki and Catalyst® SD-WAN to allow the flow of desired traffic—all from the Meraki dashboard
- Choose between Meraki and Catalyst SD-WAN for the best fit across all your disparate location types and streamline management from a single dashboard
- Sites with similar attributes can run the most operationally efficient SD-Branch solution with Meraki MX, and locations that demand precise WAN configurations can run the most customizable SD-WAN with Catalyst

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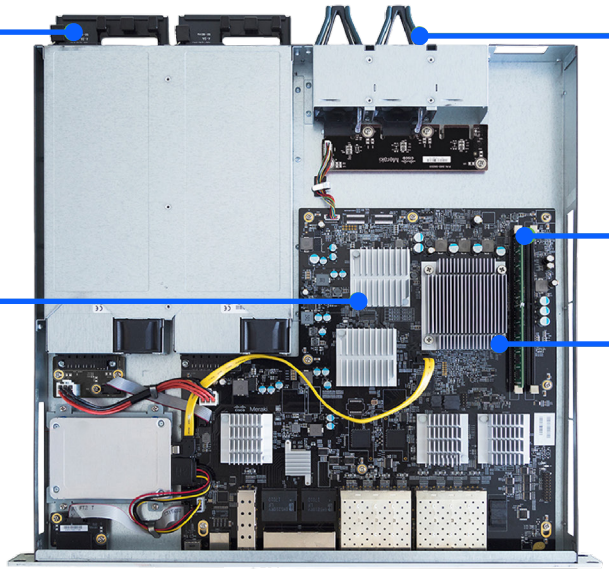
## Inside the Cisco Meraki MX

MX450 shown; interfaces and features vary by model and OS version

**Redundant power**
Reliable, energy-efficient design with field-replaceable power supplies

**Cryptographic acceleration**
Reduced load with hardware crypto assist



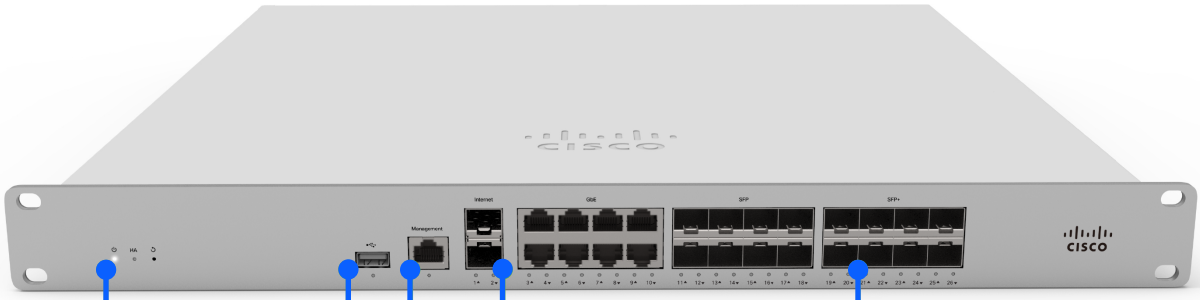
**Modular fans**
High-performance front-to-back cooling with field-replaceable fans

**Additional memory**
For high-performance content filtering

**Enhanced CPU**
Layer 3 to 7 firewall and traffic shaping

## Front of the Cisco Meraki MX

MX450 shown; interfaces and features vary by model and OS version



**Multicolor status LED**
Monitor device status

**Automatic cellular failover**

**Management interface**
Local device access

**Dual 10G WAN interfaces**
Load balancing and SD-WAN

**1G/10G Ethernet/SFP+ interfaces**
10G SFP+ interfaces for high-speed LAN connectivity

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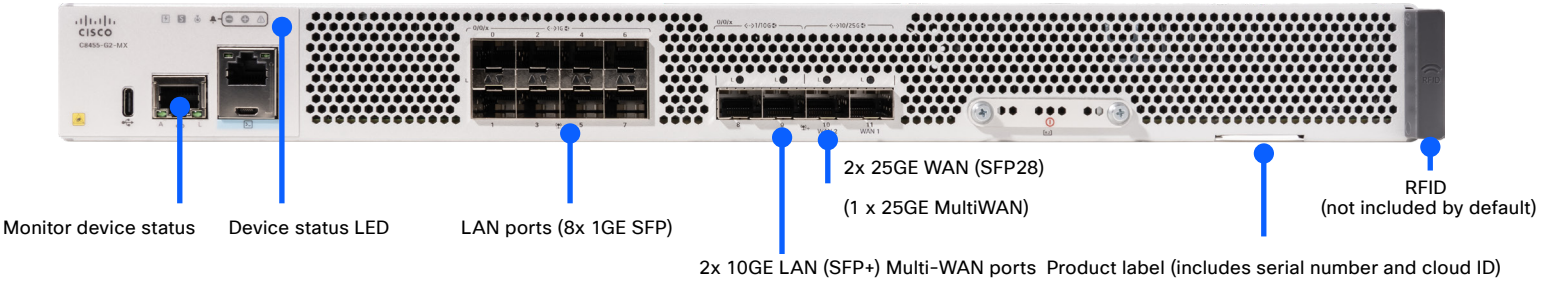
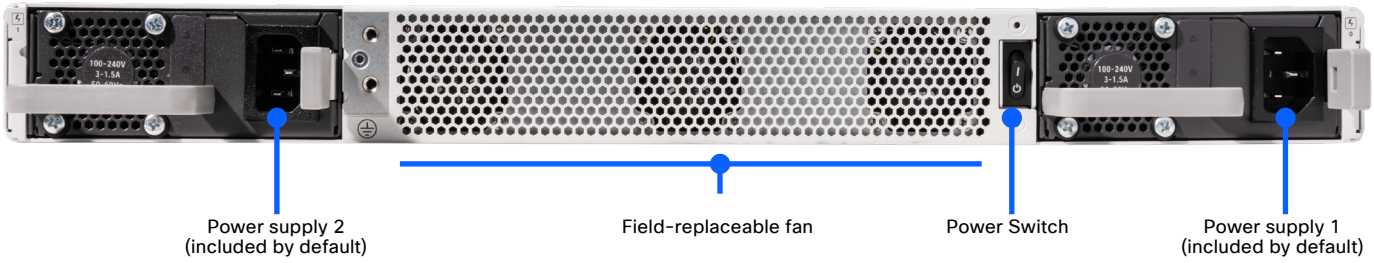
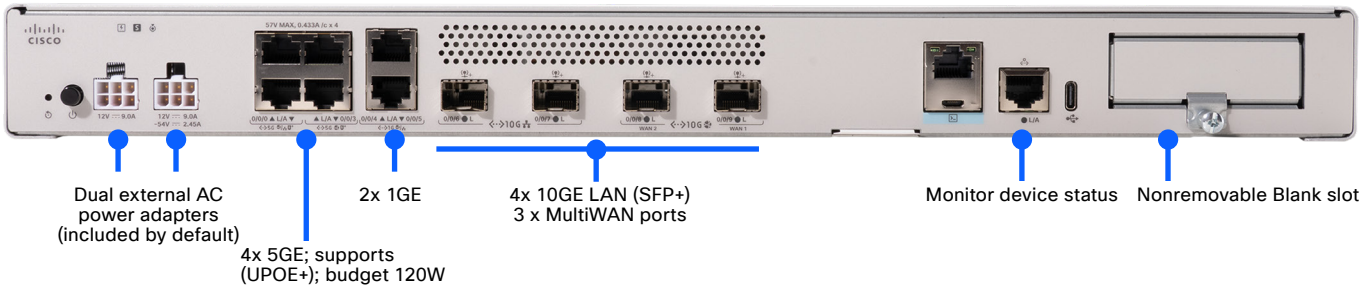
## Front panel: C8455-G2-MX




## Rear panel: C8455-G2-MX




## Front panel: C8355-G2-MX

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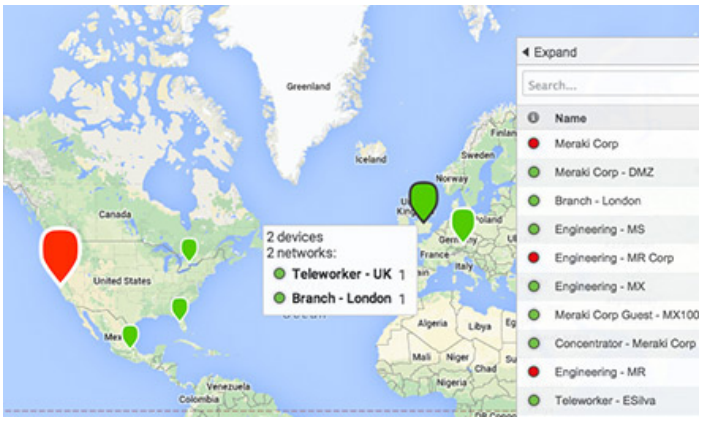
## Security and SD-WAN

Security and SD-WAN are delivered by MX appliances. Security and SD-WAN have helped thousands of organizations rapidly lower costs by reducing their dependence on MPLS without compromising on performance. As enterprises continue to shift from hub-centric architectures interconnected with VPN to ones that leverage public internet connectivity, SD-WAN powered by Meraki delivers advanced analytics with machine learning (ML) to monitor and optimize QoE for applications, regardless of where they might be hosted.

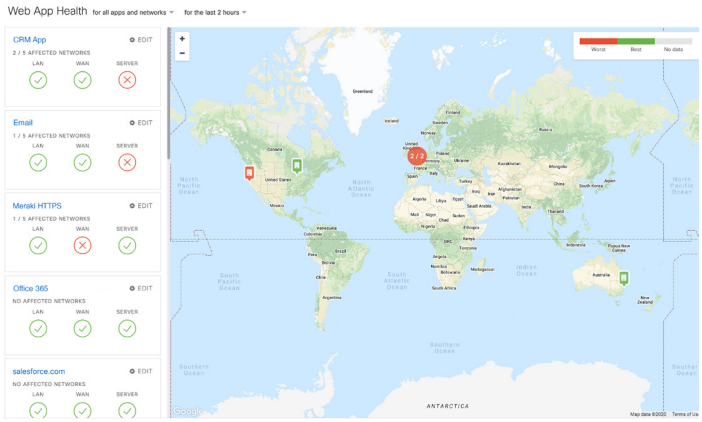
## Unified Branch

The MX and Cisco 8000 Series Secure Routers (MX OS) form a native building block of the Unified Branch Architecture. The automation toolkits features Cisco Workflows and Branch as Code (BaC) to help make branch deployment and operations repeatable, automated, and consistent.




### Transport independence

Leverage more than one uplink of any type with automatic failover, including MPLS, broadband, fiber, or cellular.




### Advanced analytics

Coming soon: at-a-glance health of web applications with ML thresholds, VoIP, and WAN with predictive analytics.

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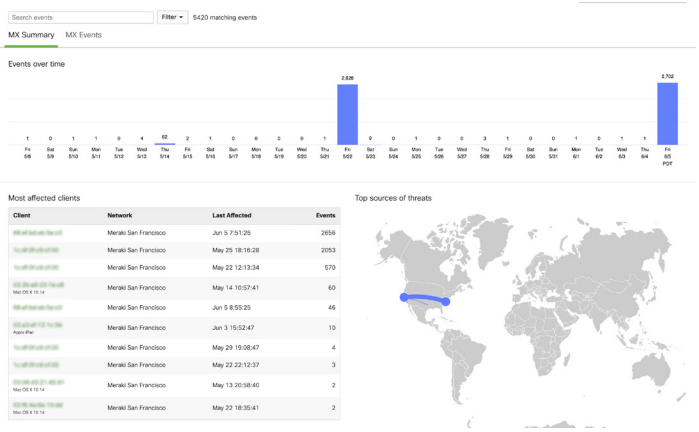
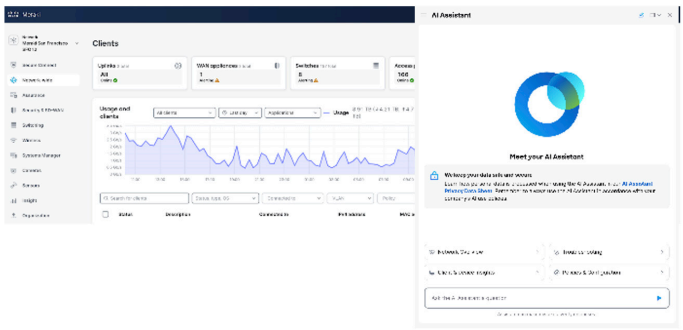



## Native security

Meraki MX and Cisco 8000-series Secure Routers (MX OS) enables unified SASE and XDR by seamlessly integrating networking and security capabilities, including next-generation firewall (NGFW), content filtering, Cisco AMP, and IDS/IPS informed by Cisco Talos®.




## Cisco AI Assistant

The Cisco 8000 Series Secure Routers and the Meraki MX appliance are supported by the Cisco AI Assistant to help optimize network management, automate routine tasks, and promote proactive troubleshooting.

## SaaS quality of experience

Manual and performance-based path selection using advanced analytics.

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# Ironclad security

The MX platform has an extensive suite of security features, including IDS/IPS, content filtering, web search filtering, anti-malware, GeoIP-based firewalling, IPsec VPN connectivity, and Cisco AMP, while providing the performance required for modern, bandwidth-intensive networks.

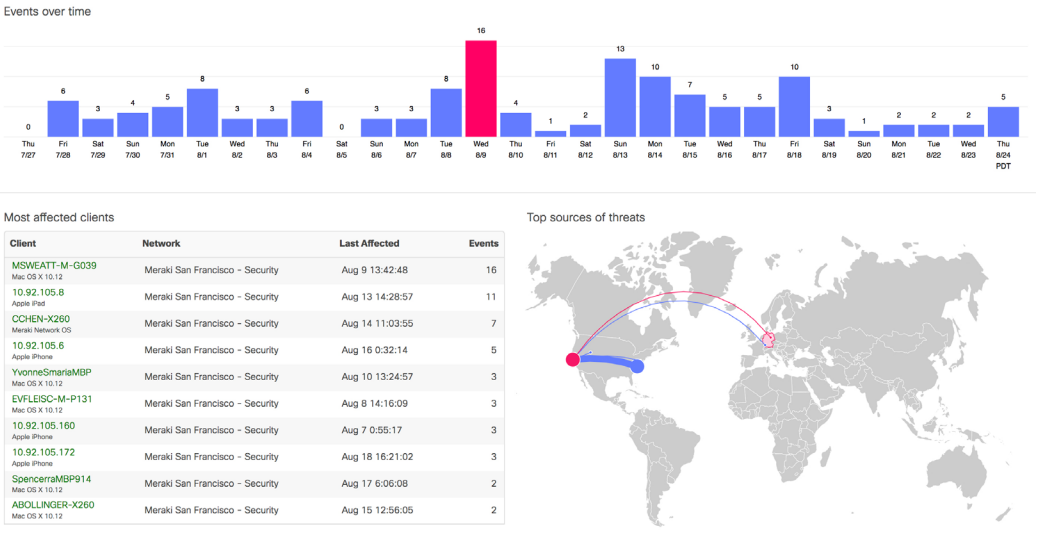
Layer 7 fingerprinting technology lets administrators identify unwanted content and applications and prevents recreational apps like BitTorrent from wasting precious bandwidth.

Meraki MX enables unified SASE and XDR by seamlessly integrating networking and security capabilities, including next-generation firewall, content filtering, Cisco AMP, and IDS/IPS informed by Cisco Talos.

The integrated Snort engine delivers superior intrusion prevention coverage, a key requirement for PCI 3.2 compliance. The MX also uses the Cisco Talos URL categorization database for content filtering that complies with the Children's Internet Protection Act (CIPA) and Internet Watch Foundation (IWF), Cisco AMP engine for anti-malware, Cisco Secure Malware Analytics Cloud, and MaxMind for GeoIP-based security rules.

Best of all, these industry-leading Layer 7 security engines and signatures are always kept up to date via the cloud, simplifying network security management and providing peace of mind to IT administrators.

The Cisco Meraki dashboard has obtained Authorization to Operate (ATO) under FedRAMP. Select Advanced Security license features are now supported in GovCloud.

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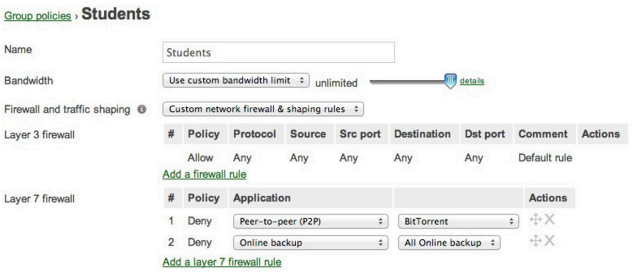
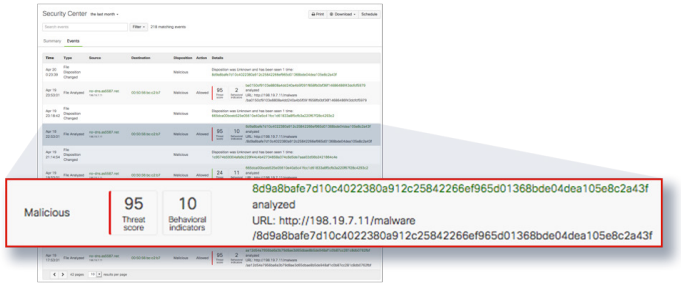



## Identity-based policy management



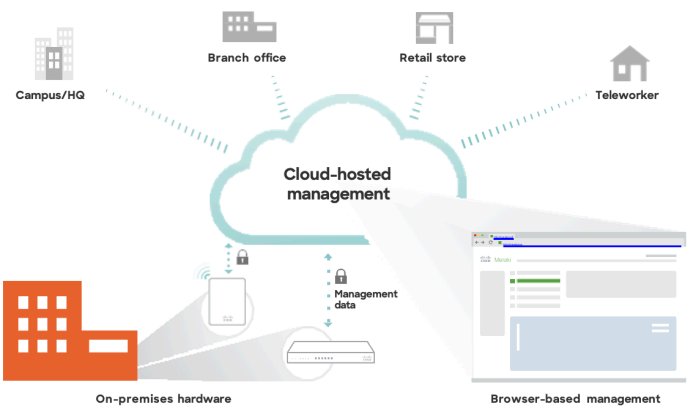

## Cisco Secure Malware Analytics Cloud

## Cloud-managed architecture

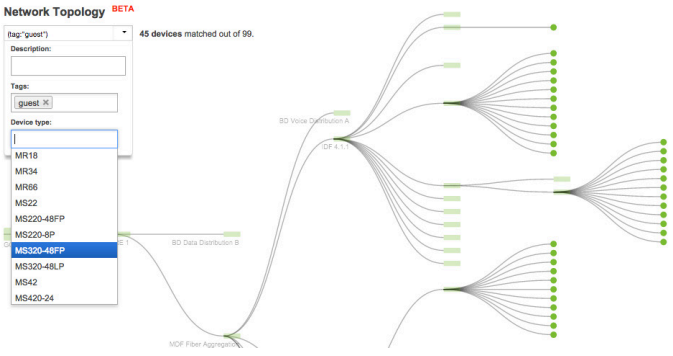
Built on the award-winning cloud architecture of the Cisco Meraki dashboard, the MX is the industry's only 100% cloud-managed solution for unified threat management (UTM) and SD-WAN in a single appliance. The MX appliances self-provision, automatically pulling policies and configuration settings from the cloud. Powerful remote management tools provide network-wide visibility and control and enable administration without the need for on-site networking expertise.

Cloud services deliver seamless firmware and security signature updates, automatically establish site-to-site VPN tunnels, and provide 24x7 network monitoring. Moreover, the MX's intuitive browser-based management interface removes the need for expensive and time-consuming training.

For customers moving IT services to a public cloud service, Meraki offers a virtual MX for use in Amazon Web Services and Microsoft Azure, enabling Auto VPN peering and SD-WAN for dynamic path selection.




## Cisco Meraki cloud-management architecture




## End-to-end network visibility and troubleshooting

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## Integrated Wi-Fi 6 wireless

The C8121-W-G2 and C8121-CW-G2 integrate award-winning wireless technology from Meraki with powerful MX network security features in a compact form factor ideal for branch offices or small enterprises.

- Dual-band 802.11n/ac/ax Wi-Fi 6, 2x2 MU-MIMO with two spatial streams
- Unified management of network security and wireless
- Integrated enterprise security and guest access

C8121-G2 Secure Router

## Integrated 5G cellular

The C8111-C-G2 and C8121-CW-G2 include a physical SIM card slot, integrated eSIM, and an internal 5G modem. This integrated functionality removes the need for external hardware and allows for cellular visibility and configuration within the Meraki dashboard.

- 1x 5G SA / CAT 20 LTE modem
- Single global SKU
- 1x nano SIM slot (4FF form factor)
- 1x integrated eSIM

C8121-CW-G2 Secure Router

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## Integrated 802.11ac Wave 2 wireless

The MX67W, MC68W, and MX68CW integrate award-winning wireless technology from Meraki with powerful MX network security features in a compact form factor ideal for branch offices or small enterprises.

- Dual-band 802.11n/ac Wave 2, 2x2 MU-MIMO with two spatial streams
- Unified management of network security and wireless
- Integrated enterprise security and guest access

MX68CW security and SD-WAN appliance

## LTE Advanced

The MX67C and MX68CW include a SIM slot and internal LTE modem. This integrated functionality removes the need for external hardware and allows for cellular visibility and configuration within the Meraki dashboard.

- 1x CAT 6 300 Mbps LTE modem
- 1x nano SIM slot (4FF form factor)
- Global coverage with individual orderable SKU for North America and worldwide

MX67C SIM slot

## Support for Power over Ethernet (PoE+)

The MX68, MX68W, and MX68CW include two ports with 802.3at (PoE+). This built-in power capability removes the need for additional hardware to power critical branch devices.

- 2x 802.3at (PoE+) ports capable of providing a total of 60 W
- Access points, phones, cameras, and other PoE-enabled devices can be powered without the need for AC adapters, PoE converters, or unmanaged PoE switches

MX68 port configuration

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# Cisco Secure Router support for Power over Ethernet (PoE+) and Universal PoE (UPOE+)

The C8355-G2-MX includes four ports with support for Cisco with support for Cisco UPOE®+ (compatible with IEEE 802.3bt Type 4). This built-in power capability removes the need for additional hardware to power critical branch devices.

C8355-G2-MX

- UPOE+ ports capable of providing a total power budget of 120W
- Cellular gateways, access points, phones, cameras, and other PoE-enabled devices can be powered without the need for AC adapters, PoE injectors, or unmanaged PoE switches
- The C8355-G2-MX can be upgraded to have a UPOE-capable power supply

C8111-C-G2

The C8111-G2, C8111-C-G2, C8121-G2, C8121-W-G2, and C8121-CW-G2 include one WAN PoE port. The C8111-G2 and C8111-C-G2 have one LAN PoE port, while the C8121-G2, C8121-W-G2, and C8121-CW-G2 have three LAN PoE ports with support for UPOE (802.3bt Class 4 Type 3). This built-in power capability removes the need for additional hardware to power critical branch devices or upstream PoE-enabled equipment such as a Cisco Meraki MG.

C8121-CW-G2-MX

- LAN UPOE+ ports capable of providing a total power budget of:
- 45W (C8111-G2 and C8111-C-G2)
- 135W (C8121-G2, C8121-W-G2, and C8121-CW-G2)
- Cellular gateways, access points, phones, cameras, and other PoE-enabled devices can be powered without the need for additional AC adapters, PoE injectors, or unmanaged PoE switches

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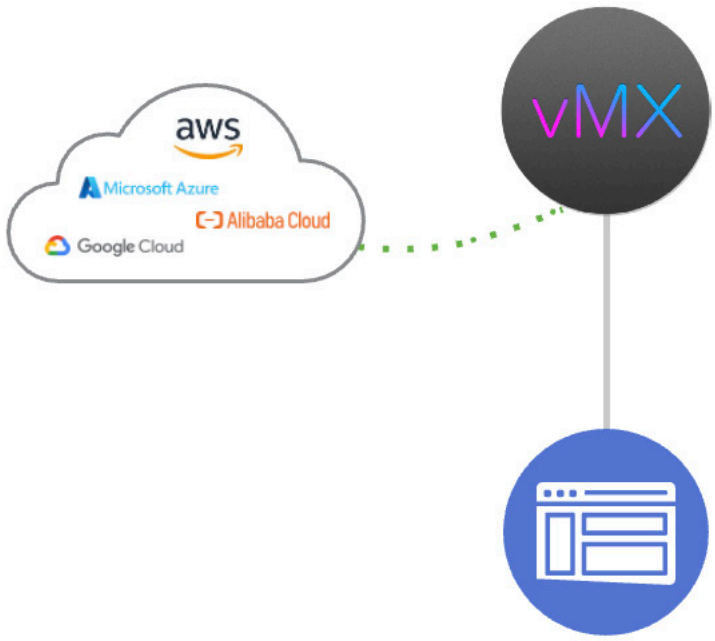
# Meraki virtual MX appliances for public and private clouds

Virtual MX (vMX) is a virtual instance of a Meraki security and SD-WAN appliance dedicated specifically to providing the simple configuration benefits of site-to-site Auto VPN for organizations running or migrating IT services to public or private cloud environments. An Auto VPN tunnel to a vMX is like having a direct Ethernet connection to a private data center.

Features and functionality of the vMX appliance:

- Securely connect branch sites with a physical MX appliance to resources in public cloud environments in three clicks with AutoVPN
- Extend SD-WAN to public cloud environments for optimized access to business-critical resources
- Available in three VPN throughput-based sizes to suit a wide range of use cases: small, medium, and large.
- Support for running a vMX instance within the Megaport environment
- Support for running as a secure gateway and AutoVPN termination point for your SD-WAN in your own KVM/ESXi virtual environment

Virtual MX (vMX) is a virtual instance of a Meraki security and SD-WAN appliance dedicated specifically to providing the simple configuration benefits of site-to-site Auto VPN for organizations running or migrating IT services to public or private cloud environments. An Auto VPN tunnel to a vMX is like having a direct Ethernet connection to a private data center.

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# Desktop and all-in-one models

| | MX67 | MX67W | MX67C |
|---|---|---|---|
| **Recommended** | Small branch with up to 50 users | Small branch with up to 50 users | Small branch with up to 50 users |
| Firewall throughput | 700 Mbps | 700 Mbps | 700 Mbps |
| Advanced security services throughput[1] | 400 Mbps | 400 Mbps | 400 Mbps |
| Maximum site-to-site VPN throughput | 400 Mbps | 400 Mbps | 400 Mbps |
| **Maximum site-to-site VPN tunnels[2]** | 50 | 50 | 50 |
| **WAN interfaces (dedicated)** | 1x 1GE RJ-45 | 1x 1GE RJ-45 | 1x 1GE RJ-45<br>1x integrated CAT 6 LTE cellular modem |
| **LAN interfaces (fixed)** | 4x 1GE RJ-45 | 4x 1GE RJ-45 | 4x 1GE RJ-45 |
| **Mounting** | Desktop or wall mount | Desktop or wall mount | Desktop or wall mount |
| **Dimensions (w x d x h)** | 9.4 x 5.1 x 1.1 in.<br>(239 x 130 x 27 mm) | 9.4 x 6.5 x 1.1 in.<br>(239 x 164 x 27 mm) | 9.4 x 6.9 x 1.1 in.<br>(239 x 176 x 27 mm) |
| **Weight** | 1.74 lb (0.7 kg) | 1.84 lb (0.83 kg) | 1.87 lb (0.85 kg) |
| **Power supply** | 30W DC | 30W DC | 30W DC |
| **Power load (idle/max)** | 5W/14W | 15W/23W | 6W/17W |
| **Humidity** | 5% to 95% | 5% to 95% | 5% to 95% |

[1]Throughput with advanced security services enabled, including IDS, AMP, and Secure Malware Analytics (formerly Threat Grid), can reach the same levels as with NGFW using Trusted Traffic Exclusions. Learn more.

[2]The maximum number of VPN tunnels is based on lab testing scenarios where no client traffic is transferring over the VPN tunnels. For information on recommended maximum site-to-site and client VPN tunnels, visit MX Sizing Principles.

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# Desktop and all-in-one models

| | MX68 | MX68W | MX68CW | MX75 |
|---|---|---|---|---|
| **Recommended** | Small branch with up to 50 users | Small branch with up to 50 users | Small branch with up to 50 users | Small branch with up to 200 users |
| **Firewall throughput** | 700 Mbps | 700 Mbps | 700 Mbps | 1 Gbps |
| **Advanced security services throughput**[1] | 400 Mbps | 400 Mbps | 400 Mbps | 1 Gbps |
| **Maximum site-to-site VPN throughput** | 400 Mbps | 400 Mbps | 400 Mbps | 1 Gbps |
| **Maximum site-to-site VPN tunnels**[2] | 50 | 50 | 50 | 75 |
| **WAN interfaces (dedicated)** | 2x 1GE RJ-45 | 2x 1GE RJ-45 | 2x 1GE RJ-45<br>1x integrated CAT 6 LTE cellular modem (cellular failover) | 1x 1GE SFP<br>2x 1GE RJ-45 |
| **LAN interfaces (fixed)** | 10x 1GE RJ-45 (2x PoE+) | 10x 1GE RJ-45 (2x PoE+) | 10x 1GE RJ-45 (2x PoE+) | 10x 1GE RJ-45 (2x PoE+) |
| **Mounting** | Desktop or wall mount | Desktop or wall mount | Desktop or wall mount | Desktop or wall mount |
| **Dimensions (w x d x h)** | 11.2 x 5.8 x 1.1 in. (284 x 148 x 27 mm) | 11.2 x 5.8 x 1.1 in. (284 x 148 x 27 mm) | 11.2 x 5.8 x 1.1 in. (284 x 148 x 27 mm) | 11.14 x 5.83 x 1.06 in. (283 x 148 x 27 mm) |
| **Weight** | 2.46 lb (1.12 kg) | 2.55 lb (1.16 kg) | 2.61 lb (1.18 kg) | 1.87 lb (0.85 kg) |
| **Power supply** | 100W DC | 100W DC | 100W DC | 100W DC |
| **Power load (idle/max)** | 11W/79W | 19W/87W | 19W/89W | 12W/96W |
| **Operating temperature** | 32° to 113°F (0° to 45°C) | 32° to 113°F (0° to 45°C) | 32° to 113°F (0° to 45°C) | 32° to 113°F (0° to 45°C) |
| **Humidity** | 5% to 95% | 5% to 95% | 5% to 95% | 5% to 95% |

[1]Throughput with advanced security services enabled, including IDS, AMP, and Secure Malware Analytics (formerly Threat Grid), can reach the same levels as with NGFW using Trusted Traffic Exclusions. Learn more.

[2]The maximum number of VPN tunnels is based on lab testing scenarios where no client traffic is transferring over the VPN tunnels. For information on recommended maximum site-to-site and client VPN tunnels, visit MX Sizing Principles.

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# Desktop or wall-mount models

| | 8111-G2-MX | 8111-C-G2-MX |
|---|---|---|
| Recommended | Small branch with up to 200 users | Small branch with up to 200 users |
| Firewall throughput | 2 Gbps | 2 Gbps |
| Advanced security services throughput[1] | 1 Gbps | 1 Gbps |
| Maximum site-to-site VPN throughput | 1.2 Gbps | 1.2 Gbps |
| Maximum site-to-site VPN tunnels[2] | 150 | 150 |
| Number of PoE interfaces | 2 | 2 |
| WAN interfaces (dedicated) | 2x 2.5 Multigigabit RJ-45 (1x PoE+, 30W) | 2x 2.5 Multigigabit RJ-45 (1x PoE+, 30W)<br>1x integrated 5G SA CAT 20 LTE cellular modem (primary or cellular failover) |
| Convertible interfaces | 1x 1 GE RJ-45 | 1x 1 GE RJ-45 |
| LAN interfaces (fixed) | 4x 1GE RJ-45 (1x PoE, 45W) | 4x 1GE RJ-45 (1x PoE, 45W) |
| Mounting | Desktop or wall mount | Desktop or wall mount |
| Dimensions (w x d x h) | 10.8 x 5.6 x 1.3 in.<br>(273 x 143 x 34 mm) | 12.4 x 6.9 x 1.3 in.<br>(316 x 176 x 34 mm) |
| Weight | 1.9 lb (0.87 kg) | 3.2 lb (1.451 kg) |
| Power supply | 150W DC | 150W DC |
| System power (idle/max) | 16W/22W | 39W/45W |
| System + PoE load (idle/max) | 16W/97W | 39W/126W |
| Operating temperature | 32° to 113°F (0° to 45°C) | 32° to 113°F (0° to 45°C) |
| Humidity | 5% to 95% | 5% to 95% |

[1]Throughput with advanced security services enabled, including IDS, AMP, and Secure Malware Analytics (formerly Threat Grid), can reach the same levels as with NGFW using Trusted Traffic Exclusions. Learn more.

[2]The maximum number of VPN tunnels is based on lab testing scenarios where no client traffic is transferring over the VPN tunnels. For information on recommended maximum site-to-site and client VPN tunnels, visit MX Sizing Principles.

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# Desktop or wall-mount models

| | 8121-G2-MX | 8121-W-G2-MX | 8121-CW-G2-MX |
|---|---|---|---|
| **Recommended** | Small branch with up to 200 users | Small branch with up to 200 users | Small branch with up to 200 user |
| Firewall throughput | 2 Gbps | 2 Gbps | 2 Gbps |
| Advanced security services throughput[1] | 1 Gbps | 1 Gbps | 1 Gbps |
| Maximum site-to-site VPN throughput | 1.2 Gbps | 1.2 Gbps | 1.2 Gbps |
| **Maximum site-to-site VPN tunnels[2]** | 150 | 150 | 150 |
| **Number of PoE interfaces** | 4 | 4 | 4 |
| **WAN interfaces (dedicated)** | 2x 2.5 Multigigabit RJ-45 (1x PoE+, 30W) | 2x 2.5 Multigigabit RJ-45 (1x PoE+, 30W) | 2x 2.5 Multigigabit RJ-45 (1x PoE+, 30W)<br>1x integrated 5G SA CAT 20 LTE cellular modem (Primary or cellular failover) |
| **Convertible interfaces** | 1x 1 GE RJ-45 | 1x 1 GE RJ-45 | 1x 1 GE RJ-45 |
| **LAN interfaces (fixed)** | 10x 1GE RJ-45 (3x PoE, 45W) | 10x 1GE RJ-45 (3x PoE, 45W) | 10x 1GE RJ-45 (3x PoE, 45W) |
| **Mounting** | Desktop or wall mount | Desktop or wall mount | Desktop or wall mount |
| **Dimensions (w x d x h)** | 12.4 x 6.9 x 1.3 in.<br>(316 x 176 x 34 mm) | 13.7 x 8 x 1.3 in<br>(348 x 203 x 34 mm) | 13.7 x 8 x 1.3 in.<br>(348 x 203 x 34 mm) |
| **Weight** | 2.5 lb (1.15 kg) | 3.7 lb (1.696 kg) | 3.9 lb (1.783 kg) |
| **Power supply** | 250W DC | 250W DC | 250W DC |
| **System power (idle/max)** | 18W/26W | 56W/64W | 68W/87W |
| **System + PoE load (idle/max)** | 18W/176W | 56W/221W | 68W/233W |
| **Operating temperature** | 32°F to 113°F (0° to 45°C) | 32° to 113°F (0° to 45°C) | 32° to 113°F (0° to 45°C) |
| **Humidity** | 5% to 95% | 5% to 95% | 5% to 95% |

[1]Throughput with advanced security services enabled, including IDS, AMP, and Secure Malware Analytics (formerly Threat Grid), can reach the same levels as with NGFW using Trusted Traffic Exclusions. Learn more.

[2]The maximum number of VPN tunnels is based on lab testing scenarios where no client traffic is transferring over the VPN tunnels. For information on recommended maximum site-to-site and client VPN tunnels, visit MX Sizing Principles.

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# Rack-mount models

| | MX85 | MX95 |
|---|---|---|
| **Recommended** | Small to medium-sized branch with up to 250 users | Medium-sized to large branch with up to 500 users |
| **Firewall throughput** | 1 Gbps | 3 Gbps |
| **Advanced Security services throughput**[1] | 1 Gbps | 2 Gbps |
| **Maximum site-to-site VPN throughput** | 1 Gbps | 2.5 Gbps |
| **Maximum site-to-site VPN tunnels**[2] | 200 | 500 |
| **WAN interfaces (dedicated)** | 2x 1GE SFP<br>2x 1GE RJ-45 (1x PoE+) | 2x 10GE SFP+<br>2x 2.5GE RJ-45 (1x PoE+) |
| **LAN interfaces (fixed)** | 8 x 1GE SFP<br>2 x 1GE SFP | 4x 1GE RJ-45<br>2x 10GE SFP+ |
| **Mounting** | 1RU | 1RU |
| **Dimensions (w x d x h)** | 19 x 9.8 x 1.7 in.<br>(484.6 x 250 x 43.8 mm) | 19.08 x 11.23 x 1.73 in.<br>(484.6 x 285.2 x 44 mm) |
| **Weight** | 8.2 lb (3.7 kg) | 6.99 lb (3.17 kg) |
| **Power supply** | Internal 100-127 V<br>200-240 V (50/60 Hz) | Internal 100-127 V<br>200-240 V (50/60 Hz) |
| **Power load (idle/max)** | 12W/55W | 42W/109W |
| **Operating temperature** | 32° to 104°F<br>(0° to 40 °C) | 32° to 104°F<br>(0° to 40°C) |
| **Humidity** | 5% to 95% | 5% to 95% |

[1]Throughput with advanced security services enabled, including IDS, AMP, and Secure Malware Analytics (formerly Threat Grid), can reach the same levels as with NGFW using Trusted Traffic Exclusions. Learn more.

[2]The maximum number of VPN tunnels is based on lab testing scenarios where no client traffic is transferring over the VPN tunnels. For information on recommended maximum site-to-site and client VPN tunnels, visit MX Sizing Principles.

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# Rack-mount models

| | MX105 | MX250 | MX450 |
|---|---|---|---|
| **Recommended** | Large branch with up to 750 users | Campus or VPN concentrator with up to 2,000 users | Campus or VPN concentrator with up to 10,000 users |
| Firewall throughput | 5 Gbps | 7.5 Gbps | 10 Gbps |
| Advanced security services throughput[1] | 2.5 Gbps | 3 Gbps | 7 Gbps |
| Maximum site-to-site VPN throughput | 3.5 Gbps | 4 Gbps | 6.5 Gbps |
| **Maximum site-to-site VPN tunnels[2]** | 1,000 | 3,000 | 5,000 |
| **WAN interfaces (dedicated)** | 2x 10GE SFP+<br>2x 2.5GE RJ-45<br>1x PoE+ | 2x 10GE SFP+ | 2x 10GE SFP+ |
| **LAN interfaces (fixed)** | 4x 1GE RJ-45<br>2x 10GE SFP+ | 8x 1GE RJ-45<br>8x 1GE SFP<br>8x 10GE SFP+ | 8x 1GE RJ-45<br>8x 1GE SFP<br>8x 10GE SFP+ |
| **Mounting** | 1RU | 1RU | 1RU |
| **Dimensions (w x d x h)** | 19.08 x 12.4 x 1.73 in.<br>(484.6 x 315 x 44 mm) | 19 x 17.3 x 1.75 in.<br>(483 x 440 x 44 mm) | 19 x 17.3 x 1.75 in.<br>(483 x 440 x 44 mm) |
| **Weight** | 10.74 lb (4.87 kg)<br>(with 2 fans and 2 PSUs) | 16 lb (7.3 kg) | 16 lb (7.3 kg) |
| **Power supply** | Modular 100–127 V 200–240 V<br>(50/60 Hz) 2x 150W PSU | Modular 100–220 V 50/60 Hz<br>2x 250W PSU | Modular 100–220 V 50/60 Hz<br>2x 250W PSU |
| **Power load (idle/max)** | 53W/123W | 105W/190W | 105W/190W |
| **Operating temperature** | 32°F to 113°F (0° to 45°C) | 32° to 113°F (0° to 45°C) | 32° to 113°F (0° to 45°C) |
| **Humidity** | 5% to 95% | 5% to 95% | 5% to 95% |

[1]Throughput with advanced security services enabled, including IDS, AMP, and Secure Malware Analytics (formerly Threat Grid), can reach the same levels as with NGFW using Trusted Traffic Exclusions. Learn more.

[2]The maximum number of VPN tunnels is based on lab testing scenarios where no client traffic is transferring over the VPN tunnels. For information on recommended maximum site-to-site and client VPN tunnels, visit MX Sizing Principles.

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# Rack-mount models

| | C8355-G2-MX | C8455-G2-MX |
|---|---|---|
| Recommended | Large Secure Branch/ enterprise networks with up to 5,000 users | Secure Campus or VPN concentrator with up to 15,000 users |
| Firewall throughput | 10 Gbps | 20 Gbps |
| Advanced security services throughput[1] | 4 Gbps | 8 Gbps |
| Maximum site-to-site VPN throughput | 5 Gbps | 10 Gbps |
| Maximum site-to-site VPN tunnels[2] | 3,000 | 6,000 |
| WAN interfaces (dedicated) | 2x 10GE SFP+ | 2x 25GE SFP28 |
| Convertible interfaces | 2x LAN/WAN convertible (10GE) + 1xLAN/WAN convertible (25GE) | 3x LAN/WAN convertible (10GE) |
| LAN interfaces (fixed) | 4x 5GE RJ-45 (Multigigabit) + 2x 1GE RJ-45 | 8x 1GE SFP |
| Mounting | 1RU | 1RU |
| Dimensions (w x d x h) | 17.5 x 11.49 x 1.73 in.<br>(444.5 x 291.84 x 43.9 mm) | 17.50 x 12 x 1.73 in.<br>(444.5 x 304.8 x 43.9 mm) |
| Weight | 9.25 lb (4.19 kg) | 12.5 lb (5.6 kg)<br>(includes 2 AC power supplies + fan tray) |
| Power supply | Dual 110W AC (external adapter) | 250W AC (pluggable) |
| PoE budget | Yes<br>Max: 120W | No PoE support |
| Operating temperature (sea level) | 32° to 104°F<br>(0° to 40°C) | 32° to 104°F<br>(0° to 40 °C) |
| Humidity | 5% to 85% (operating)<br>5% to 95% (storage) | 5% to 95% 5% to 85% (operating)<br>5% to 95% (storage) |

[1]Throughput with advanced security services enabled, including IDS, AMP, and Secure Malware Analytics (formerly Threat Grid), can reach the same levels as with NGFW using Trusted Traffic Exclusions. Learn more.

[2]The maximum number of VPN tunnels is based on lab testing scenarios where no client traffic is transferring over the VPN tunnels. For information on recommended maximum site-to-site and client VPN tunnels, visit MX Sizing Principles.

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# Virtual appliance models

Meraki virtual WAN appliances include a rich set of features to connect branch sites to public and private cloud environments. These features include the following.

| | vMX – Small | vMX – Medium | vMX – Large |
|---|---|---|---|
| Recommended | Extend secure SD-WAN connectivity from branch sites to resources in public and private cloud environments | Extend secure SD-WAN connectivity from branch sites to resources in public and private cloud environments | Extend secure SD-WAN connectivity from branch sites to resources in public and private cloud environments |
| Interfaces | Virtual | Virtual | Virtual |
| Supported cloud platforms | AWS<br>Azure<br>Google Cloud<br>Alibaba Cloud | AWS<br>Azure<br>Google Cloud<br>Alibaba Cloud | AWS<br>Azure<br>Google Cloud<br>Alibaba Cloud |
| NGFW | 250 Mbps | 500 Mbps | 1 Gbps |
| Advanced security services | 250 Mbps | 500 Mbps | 1 Gbps |
| Maximum site-to-site VPN throughput | 250 Mbps | 500 Mbps | 1 Gbps |
| Maximum concurrent site-to-site VPN tunnels | 50 | 250 | 1,000 |
| Client VPN support | Yes | Yes | Yes |

## Performance and scale

Use the MX Sizing Guide and Principles document to compare the different models and select or design your network architecture. Performance and scale metrics are based on the most current firmware version defined in the guide.

## Product approvals

The Product Approvals Database is a repository of information regarding the homologation status for given Cisco products in certain countries. Before placing any purchase order(s) for Cisco product(s), every customer should check the homologation status of the product(s).

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# Included in the box

| Package contents | Model(s) |
|---|---|
| **Mounting kit** | MX67, MX67W, MX67C, MX68, MX68W, MX68CW, MX250, MX450, C8455-G2-MX |
| **CAT 5 Ethernet cable (2)** | MX67, MX67W, MX67C, MX68, MX68W, MX68CW |
| **AC power adapter** | MX67, MX67W, MX67C, MX68, MX68W, MX68CW, MX75, C8111-G2, C8111-C-G2, C8121-G2, C8121-W-G2, C8121-CW-G2, C8355-G2-MX |
| **Wireless external omnidirectional antenna (2)** | MX67W, MX68W |
| **110W power supply (2)** | C8355-G2-MX (Upgrade to PoE+/UPOE+) with optional 230W power supply |
| **150W power supply (2)** | MX105 |
| **250W power supply (2)** | MX250, MX450, C8455-G2-MX |
| **System fan (2)** | MX105, MX250, MX450, C8455-G2-MX |
| **SIM card ejector tool** | MX67C, MX68CW |
| **Fixed external wireless and LTE paddle antennas** | MX68CW |
| **Removable external LTE paddle antennas** | MX67C |
| **Removable external 5G Cellular paddle antennas** | C8111-C-G2, C8121-CW-G2 (Cellular antennas are specific to each model) |
| **19” rack mount kit** | C8355-G2-MX, C8455-G2-MX |

## Warranty with next-day advance replacement

Meraki MX appliances 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.
Cisco 8000 Series Secure MX routers come standard with a Cisco Limited 2-Year Return to Factory Hardware Warranty. Refer here for more details. For complete details, please visit meraki.cisco.com/support.

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# Per-device licensing

There are three license tiers for MX appliances to provide you the flexibility to select the one most appropriate for your intended use. Pair your chosen MX appliance(s) with the relevant license for your use case. Refer to the Meraki Per-Device Licensing Overview for more information on licensing.

| Features Highlights | **SD-WAN Plus** Sites with critical SaaS usage | **Advanced Security** Sites with critical SaaS usage | **Enterprise** Fully backhauled environment |
|---|---|---|---|
| Three-click secure SD-WAN connectivity | ● | ● | ● |
| Layer 7 NGFW | ● | ● | ● |
| Advanced Malware Protection (AMP) | ● | ● | X |
| Intrusion detection and prevention | ● | ● | X |
| Advanced Malware Protection (AMP) | ● | ● | X |
| Intrusion detection and prevention | ● | ● | X |
| Content filtering | ● | X | X |
| Internet outages from ThousandEyes® | ● | o | X |
| Smart Layer 7 local internet breakout | ● | X | X |
| Performance-based internet routing | ● | X | X |
| ML-powered SD-WAN analytics | ● | X | X |
| Mixed-license environment | ● | ● | X |

A full list of features by license type is available on the Meraki MX/Z Security and SD-WAN Licensing page. One mixed license only with subscription per device.

## Mixed-license environments

The SD-WAN Plus and Advanced Security licenses can be selected on a per-device basis for a mixed-license deployment. In this way, some sites could have MXs with full SD-WAN Plus license functionality and the remaining sites with Advanced Security license features. Enterprise licenses can only be applied organization-wide. This licensing model does not apply to co-termination. For more information on per-device licensing, please refer to the Meraki Per-Device Licensing Overview.

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## Subscription licensing

Meraki subscription licensing offers a simple, flexible, and hardware-agnostic purchasing model for Meraki products. MX appliance subscriptions are available for any term length starting from 1 year up to 10 years. More information, including MX subscription types and SKU list, can be found on the Subscription - MX Licensing page. General information on subscription licensing can be found on the Subscription - Licensing Overview page.

## Co-termination licensing

The Cisco Meraki Co-Termination licensing model is based on co-termination, which means that for any given organization, regardless of how many licenses were applied or when they were applied, the license

expiration date for all licenses claimed to that organization will be the same. More information, including MX co-termination licenses and features under each tier, can be found on the Meraki MX/Z Security and SD-WAN Licensing page. General information on co-termination licensing can be found on the Meraki Co-Termination Licensing Overview page.

## Accessories

The C8455-G2-MX, MX250, and MX450 models support pluggable optics for high-speed backbone connections between wiring closets or to aggregation switches.

Meraki offers several standards-based Gigabit and 10 Gigabit pluggable modules. Each appliance has also been tested for compatibility with several third-party modules.

## Sustainability

The Cisco 8000 Series Secure Routers integrate sustainability into their product lifecycle, guided by circular design principles. This includes initiatives for efficient design, reduced power consumption, sustainable packaging, and product takeback. These efforts help lower operational costs and support Cisco's net-zero greenhouse gas (GHG) emissions goals. More details on Cisco's environmental, social, and governance (ESG) activities can be found in the Purpose Reporting Hub.

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## SFP28 and SFP+ modules supported

| | |
|---|---|
| **SFP-25G-SR-S** | 25GBASE-SR SFP28 Module for MMF |
| **SFP-10/25G-CSR-S** | 10/25GBASE-CSR SFP28 Module for MM |
| **SFP-25G-SR-S** | 25GBASE-SR SFP28 Module for MMF |
| **SFP-10/25G-LR-S** | 10/25GBASE-LR SFP28 Module for SMF |
| **SFP-25G-AOCxx** | 25GBASE-AOC SFP28 Active Optical Cable (various lengths) |
| **SFP-H25G-CUxx** | 25GBASE-CR1 Copper Cable (various lengths) |
| **SFP-10/25G-LR-I** | 10/25GBASE-LR SFP28, Industrial Temperature Module for SMF |
| **SFP-25G-ER-I** | 25GBASE-ER, SFP28 Industrial Temperature Module for SMF |
| **SFP-10/25G-BXD-I** | 10GBASE-LR, 10GBASE-BR10, 25GBASE-BR10 SFP28, Bidirectional, Industrial Temp Module for SMF |
| **SFP-10/25G-BXU-I** | 10GBASE-LR, 10GBASE-BR10, 25GBASE-BR10 SFP28, Bidirectional, Industrial Temp Module for SMF |
| **SFP-25G-BX40D-I** | 25GBASE-BR40, SFP28, Bidirectional, Industrial Temp Module for SMF |
| **SFP-25G-BX40D-I** | 25GBASE-BR40, SFP28, Bidirectional, Industrial Temp Module for SMF |
| **SFP-10G-T-X** | Cisco 10 GbE / 1 GbE / 100 MbE RJ45 Copper Module (10000BASE-T for twisted pair) |
| **MA-SFP-10GB-SR** | Cisco Meraki 10 GbE Twinax Cable with SFP+ Connectors (10GSFP+Cu, range: 1 m)<br>for MX95, MX105, MX250, MX450, C8355-G2, C8455-G2 |
| **MA-SFP-10GB-LR** | Cisco Meraki 10 GbE SFP SX Fiber Module (10000BASE-LR, range: 10 km) for MX95, MX105, MX250, MX450, C8355-G2, C8455-G2 |

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# Accessories/SFP transceivers

Supported Cisco Meraki accessory modules

| Model | Description |
|---|---|
| **MA-SFP-1GB-SX** | Cisco Meraki 1 GbE SFP SX Fiber Module (1000BASE-SX, range: 550 m) for MX75, MX85, MX95, MX105, MX250, MX450 |
| **MA-SFP-1GB-TX** | Cisco Meraki 1 GbE RJ45 Copper Module (1000BASE-T for twisted pair) for MX75, MX85, MX95, MX105, MX250, MX450 |
| **MA-SFP-10GB-SR** | Cisco Meraki 10 GbE Twinax Cable with SFP+ Connectors (10GSFP+Cu, range: 1 m) for MX95, MX105, MX250, MX450 |
| **MA-CBL-TA-1M** | Cisco Meraki 10 GbE Twinax Cable with SFP+ Connectors (10GSFP+Cu, range: 3 m) for MX95, MX105, MX250, MX450 |
| **MA-CBL-TA-3M** | Cisco Meraki 10 GbE Twinax Cable with SFP+ Connectors (10GSFP+Cu, range: 3m) for MX95, MX105, MX250, MX450 |
| **MA-PWR-30WAC** | Replacement Power Adapter (30W) for MX67, MX67W, MX67C |
| **MA-PWR-100WAC** | Replacement Power Adapter (100W) for MX68, MX68W, MX68CW |
| **MA-PWR-100WAC-A** | Replacement Power Adapter (100W) for MX75 |
| **MA-PWR-150WAC** | Meraki MX105 Power Supply Unit (PSU) |
| **MA-PWR-250WAC** | Meraki MX250/MX450 Power Supply Unit (PSU) |
| **MA-C84-PWR-250W** | Cisco C8455-G2-MX Power Supply Unit (PSU) |
| **MA-FAN-18K** | Meraki 18K RPM System Fan for MX105, MX250 and MX450 |
| **MA-ANT-MX** | One pair of external dual-band dipole antennas (connector type: RP-SMA) for MX67W, or MX68W |
| **MA-C84-RACK-KIT** | One Cisco C8455-G2-MX Replaceable Fan (spare) |
| **MA-WMNTBR-PWR-ADP** | 1x Power adapter holder for external power adapter for C8111-G2, C8111-C-G2, C8121-G2, C8121-W-G2, C8121-CW-G2 |
| **MA-PWR-150WAC-ADP** | C8111-G2, C8111-C-G2 Replacement Power Adapter (150W AC) |
| **MA-PWR-250WAC-ADP** | C8121-G2, C8121-W-G2, C8121-CW-G2 Replacement Power Adapter (250W AC) |
| **5G-ANT-C8111** | Includes 4x cellular antennas for the C8111-C-G2 |
| **5G-ANT-C8121** | Includes 4x cellular antennas for the C8121-CW-G2 |

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# Accessories/SFP transceivers

Supported Cisco Meraki accessory modules

## Power cables

One power cable is required for each MX; two power cables are required for the C8455-G2-MX, C8355-G2-MX. For U.S. customers, all required power cables will automatically be included. Customers outside the U.S. are required to order power cords separately.

| Power Cords |
| --- |
| **MA-PWR-CORD-US** |
| **MA-PWR-CORD-EU** |
| **MA-PWR-CORD-EU** |
| **MA-PWR-CORD-AU** |

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# MX specifications

## Management

| |
|---|
| Managed via the web using the Cisco Meraki dashboard |
| Single dashboard management of wired and wireless networks |
| Zero-touch remote deployment (no staging needed) |
| Automatic firmware upgrades and security patches |
| Template-based multinetwork management |
| Org-level two-factor authentication and single sign-on |
| Role-based administration with change logging and alerts |

## Monitoring and reporting

| |
|---|
| Throughput, connectivity monitoring, and email alerts |
| Detailed historical per-port and per-client usage statistics |
| Application usage statistics |
| Org-level change logs for compliance and change management |
| VPN tunnel and latency monitoring |
| Network asset discovery and user identification |
| Periodic emails with key utilization metrics |
| Device performance and utilization reporting |
| Netflow upport |
| Syslog integration |

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# MX specifications

## Management

| |
|---|
| Live remote packet capture |
| Real-time diagnostic and troubleshooting tools |
| Aggregated event logs with instant search |

## Network and firewall services

| |
|---|
| NGFW, 1:1 NAT, DMZ |
| Identity-based policies. Adaptive policy with VLAN, ACL, SGT |
| Auto VPN: Automated site-to-site (IPsec) VPN for hub-and-spoke or mesh topologies |
| Client (IPsec L2TP) VPN, Cisco Secure Client VPN |
| Multiple WAN IP, PPPoE, NAT |
| VLAN support and DHCP services |
| Static and dynamic routing |
| User and device quarantine |

## WAN performance management

| |
|---|
| WAN link aggregation |
| Automatic Layer 3 failover (including VPN connections) |
| 3G/4G USB modem failover or single uplink |
| Application-level (Layer 7) traffic analysis and shaping |
| Ability to choose WAN uplink based on traffic type |
| SD-WAN: Dual-active VPN with policy-based routing and dynamic path selection |
| CAT 6 LTE modem for failover or single uplink[1] |
| Support for more than two dedicated WAN links using Multi-WAN Backup Uplink |

[1] MX67C and MX68CW only.

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# Cisco Secure Router specifications

| Advanced security services[1] |
| --- |
| Content filtering (Cisco Talos CIPA-compliant URL database) |
| Web-search filtering (including Google/Bing SafeSearch) |
| YouTube for Schools |
| Intrusion-prevention sensor (Snort based) |
| Cisco Advanced Malware Protection (AMP) |
| Secure Malware Analytics[2] |
| Integration with Cisco XDR[2] |

1 Advanced security services require Advanced Security license

2 Threat Grid services require additional sample pack licensing

| Integrated Wi-Fi (C8121-W-G2 and C8121-CW-G2) |
| --- |
| 1x 802.11a/n/ac/ax (5 GHz) radio |
| 1x 802.11b/g/n/ax (2.4 GHz) radio |
| Max data rate 1.5 Gbps aggregate |
| 2x2 MU-MIMO with 2 spatial streams |
| Antenna gain: 3.3 dBi @ 2.4 GHz, 6.0 dBi @ 5 GHz |
| WPA12-PSK, WPA2-PSK, WPA2-Enterprise with 802.1X authentication, WPA23-PSK, WPA23-Enterprise with 802.1X authentication, WPA3-PSK, WPA3-Enterprise with 802.1X authentication |
| FCC (U.S.): 2.412-2.462 GHz, 5.150-5.250 GHz (UNII-1),<br>5.250-5.350 GHz (UNII-2), 5.470-5.725 GHz (UNII-2e),<br>5.725 -5.825 GHz (UNII-3) |
| CE (Europe): 2.412-2.484 GHz, 5.150-5.250 GHz (UNII-1), 5.250-5.350 GHz (UNII-2) 5.470-5.600 GHz, 5.660-<br>5.725 GHz (UNII-2e) |
| Additional regulatory information: IC (Canada), C-Tick (Australia/New Zealand), RoHS |

[1] MX67C and MX68CW only.

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# Cisco Secure Router specifications

## Integrated cellular (C8111-C-G2 and C8121-CW-G2 only)

5G NR bands: 1, 2, 3, 5, 7, 8, 12, 13, 14, 18, 20, 25, 26, 28, 29, 30, 38, 40, 41, 48, 66, 70, 71, 75, 76, 77, 78, 79

LTE bands: 1,2, 3, 4, 5, 7, 8, 12, 13, 14, 18, 19, 20, 21, 25, 26, 28, 29, 30, 32, 34, 38, 39, 40, 41, 42, 43, 46, 48, 66, 71

5G NR Sub-6 and CAT 20 LTE

Additional regulatory information: PTCRB (North America), RCM (ANZ, APAC), GCF (EU)

## Power over Ethernet (all versions of the C8111-G2 and C8121-G2)

3x UPOE+ (802.3bt Type 3 Class 4) LAN ports for C8121-G2s with a 45W per port maximum

1x UPOE+ (802.3bt Type 3 Class 4) LAN port for C8111-G2s with a 45W per port maximum

1x PoE+ (802.3at) WAN port with a 30W per port maximum

## Regulatory

FCC (U.S.)

CB (IEC)

CISPR (Australia/New Zealand)

PTCRB (North America)

RCM (Australia Zealand, Asia Pacific)

GCF (EU)

## Warranty

Cisco 8000 Series Secure Routers come standard with a Cisco Limited 2-Year Return to Factory Hardware Warranty. For more information, refer to the Cisco Limited Hardware Warranty Terms.

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# MX specifications

## Advanced security services[1]

| |
|---|
| Content filtering (Cisco Talos CIPA-compliant URL database) |
| Web-search filtering (including Google/Bing SafeSearch) |
| YouTube for Schools |
| Intrusion-prevention sensor (Snort based) |
| Cisco Advanced Malware Protection (AMP) |
| Secure Malware Analytics[2] |
| Integration with Cisco XDR[2] |

1 Advanced security services require Advanced Security license.

2 Threat Grid services require additional sample pack licensing.

## Integrated Wi-Fi (MX67W, MX68W, MX68CW)

| |
|---|
| 1x 802.11a/n/ac (5 GHz) radio |
| 1x 802.11b/g/n (2.4 GHz) radio |
| Max data rate 1.3 Gbps aggregate (MX67W, MX68W, MX68CW) |
| 2x2 MU-MIMO with 2 spatial streams (MX67W, MX68W, MX68CW) |
| 2x external dual-band dipole antennas (connector type: RP-SMA) |
| Antenna gain: 3.0 dBi @ 2.4 GHz, 3.5 dBi @ 5 GHz |
| WEP, WPA, WPA2-PSK, WPA2-Enterprise with 802.1X authentication |
| FCC (U.S.): 2.412-2.462 GHz, 5.150-5.250 GHz (UNII-1),<br>5.250-5.350 GHz (UNII-2), 5.470-5.725 GHz (UNII-2e),<br>5.725 -5.825 GHz (UNII-3) |
| CE (Europe): 2.412-2.484 GHz, 5.150-5.250 GHz (UNII-1), 5.250-5.350 GHz (UNII-2) 5.470-5.600 GHz, 5.660-5.725 GHz (UNII-2e) |
| Additional regulatory information: IC (Canada), C-Tick (Australia/New Zealand), RoHS |

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# MX specifications

## Integrated cellular (MX67C and MX68CW only)

LTE bands: 2, 4, 5, 12, 13, 17, and 19 (North America). 1, 3, 5, 7, 8, 20, 26, 28A, 28B, 34, 38, 39, 40, and 41 (worldwide).

300 Mbps CAT 6 LTE

Additional regulatory information: PTCRB (North America), RCM (ANZ, APAC), GCF (EU)

## Power over Ethernet (MX68, MX68W, MX68CW)

2x PoE+ (802.3at) LAN ports

1x PoE+ (802.3at) WAN ports

30W maximum per port

## Regulatory

FCC (U.S.)

CB (IEC)

CISPR (Australia/New Zealand)

PTCRB (North America)

RCM (Australia/New Zealand, Asia Pacific)

GCF (EU)

## Warranty

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

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| **C8111-G2-MX / C8111-C-G2-MX** | LIC-C8111-ENT-1Y<br>LIC-C8111-ENT-3Y<br>LIC-C8111-ENT-5Y<br>LIC-C8111-ENT-7Y | Cisco C8111 MX, 1-year Enterprise License and Support<br>Cisco C8111 MX, 3-year Enterprise License and Support<br>Cisco C8111 MX, 5-year Enterprise License and Support<br>Cisco C8111 MX, 7-year Enterprise License and Support |
| | LIC-C8111-SEC-1Y<br>LIC-C8111-SEC-3Y<br>LIC-C8111-SEC-5Y<br>LIC-C8111-SEC-7Y | Cisco C8111 MX, 1-year Advanced Security License and Support<br>Cisco C8111 MX, 3-year Advanced Security License and Support<br>Cisco C8111 MX, 5-year Advanced Security License and Support<br>Cisco C8111 MX, 7-year Advanced Security License and Support |
| | LIC-C8111-SDW-1Y<br>LIC-C8111-SDW-3Y<br>LIC-C8111-SDW-5Y<br>LIC-C8111-SDW-7Y | Cisco C8111 MX, 1-year Secure SD-WAN Plus License and Support<br>Cisco C8111 MX, 3-year Secure SD-WAN Plus License and Support<br>Cisco C8111 MX, 5-year Secure SD-WAN Plus License and Support<br>Cisco C8111 MX, 7-year Secure SD-WAN Plus License and Support |
| **C8121-G2-MX / C8121-W-G2-MX / C8121-CW-G2-MX** | LIC-C8121-ENT-1Y<br>LIC-C8121-ENT-3Y<br>LIC-C8121-ENT-5Y<br>LIC-C8121-ENT-7Y | Cisco C8121 MX, 1-year Enterprise License and Support<br>Cisco C8121 MX, 3-year Enterprise License and Support<br>Cisco C8121 MX, 5-year Enterprise License and Support<br>Cisco C8121 MX, 7-year Enterprise License and Support |
| | LIC-C8121-SEC-1Y<br>LIC-C8121-SEC-3Y<br>LIC-C8121-SEC-5Y<br>LIC-C8121-SEC-7Y | Cisco C8121 MX, 1-year Advanced Security License and Support<br>Cisco C8121 MX, 3-year Advanced Security License and Support<br>Cisco C8121 MX, 5-year Advanced Security License and Support<br>Cisco C8121 MX, 7-year Advanced Security License and Support |
| | LIC-C8121-SDW-1Y<br>LIC-C8121-SDW-3Y<br>LIC-C8121-SDW-5Y<br>LIC-C8121-SDW-7Y | Cisco C8121 MX, 1-year Secure SD-WAN Plus License and Support<br>Cisco C8121 MX, 3-year Secure SD-WAN Plus License and Support<br>Cisco C8121 MX, 5-year Secure SD-WAN Plus License and Support<br>Cisco C8121 MX, 7-year Secure SD-WAN Plus License and Support |

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| **MX67-HW** | LIC-MX67-ENT-1Y<br>LIC-MX67-ENT-3Y<br>LIC-MX67-ENT-5Y<br>LIC-MX67-ENT-7Y | Cisco Meraki MX67, 1-year Enterprise License and Support<br>Cisco Meraki MX67, 3-year Enterprise License and Support<br>Cisco Meraki MX67, 5-year Enterprise License and Support<br>Cisco Meraki MX67, 7-year Enterprise License and Support |
| | LIC-MX67-SEC-1Y<br>LIC-MX67-SEC-3Y<br>LIC-MX67-SEC-5Y<br>LIC-MX67-SEC-7Y | Cisco Meraki MX67, 1-year Advanced Security License and Support<br>Cisco Meraki MX67, 3-year Advanced Security License and Support<br>Cisco Meraki MX67, 5-year Advanced Security License and Support<br>Cisco Meraki MX67, 7-year Advanced Security License and Support |
| | LIC-MX67-SDW-1Y<br>LIC-MX67-SDW-3Y<br>LIC-MX67-SDW-5Y<br>LIC-MX67-SDW-7Y | Cisco Meraki MX67, 1-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX67, 3-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX67, 5-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX67, 7-year Secure SD-WAN Plus License and Support |

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| **MX67W-HW** | LIC-MX67W-ENT-1Y<br>LIC-MX67W-ENT-3Y<br>LIC-MX67W-ENT-5Y<br>LIC-MX67W-ENT-7Y | Cisco Meraki MX67W, 1-year Enterprise License and Support<br>Cisco Meraki MX67W, 3-year Enterprise License and Support<br>Cisco Meraki MX67W, 5-year Enterprise License and Support<br>Cisco Meraki MX67W, 7-year Enterprise License and Support |
| | LIC-MX67W-SEC-1Y<br>LIC-MX67W-SEC-3Y<br>LIC-MX67W-SEC-5Y<br>LIC-MX67W-SEC-7Y | Cisco Meraki MX67W, 1-year Advanced Security License and Support<br>Cisco Meraki MX67W, 3-year Advanced Security License and Support<br>Cisco Meraki MX67W, 5-year Advanced Security License and Support<br>Cisco Meraki MX67W, 7-year Advanced Security License and Support |
| | LIC-MX67W-SDW-1Y<br>LIC-MX67W-SDW-3Y<br>LIC-MX67W-SDW-5Y<br>LIC-MX67W-SDW-7Y | Cisco Meraki MX67W, 1-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX67W, 3-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX67W, 5-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX67W, 7-year Secure SD-WAN Plus License and Support |
| **MX67C-HW-NA (North America)** | LIC-MX67C-ENT-1Y<br>LIC-MX67C-ENT-3Y<br>LIC-MX67C-ENT-5Y<br>LIC-MX67C-ENT-7Y | Cisco Meraki MX67C, 1-year Enterprise License and Support<br>Cisco Meraki MX67C, 3-year Enterprise License and Support<br>Cisco Meraki MX67C, 5-year Enterprise License and Support<br>Cisco Meraki MX67C, 7-year Enterprise License and Support |
| **MX67C-HW-WW (worldwide)** | LIC-MX67C-SEC-1Y<br>LIC-MX67C-SEC-3Y<br>LIC-MX67C-SEC-5Y<br>LIC-MX67C-SEC-7Y | Cisco Meraki MX67C, 1-year Advanced Security License and Support Cisco Meraki MX67C, 3-year Advanced Security License and Support Cisco Meraki MX67C, 5-year Advanced Security License and Support Cisco Meraki MX67C, 7-year Advanced Security License and Support |
| | LIC-MX67C-SDW-1Y<br>LIC-MX67C-SDW-3Y<br>LIC-MX67C-SDW-5Y<br>LIC-MX67C-SDW-7Y | Cisco Meraki MX67C, 1-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX67C, 3-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX67C, 5-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX67C, 7-year Secure SD-WAN Plus License and Support |

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| | LIC-MX68-SEC-1Y<br>LIC-MX68-SEC-3Y<br>LIC-MX68-SEC-5Y<br>LIC-MX68-SEC-7Y | Cisco Meraki MX68, 1-year Advanced Security License and Support<br>Cisco Meraki MX68, 3-year Advanced Security License and Support<br>Cisco Meraki MX68, 5-year Advanced Security License and Support<br>Cisco Meraki MX68, 7-year Advanced Security License and Support |
| | LIC-MX68-SDW-1Y<br>LIC-MX68-SDW-3Y<br>LIC-MX68-SDW-5Y<br>LIC-MX68-SDW-7Y | Cisco Meraki MX68, 1-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX68, 3-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX68, 5-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX68, 7-year Secure SD-WAN Plus License and Support |

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| | LIC-MX68W-SEC-1Y<br>LIC-MX68W-SEC-3Y<br>LIC-MX68W-SEC-5Y<br>LIC-MX68W-SEC-7Y | Cisco Meraki MX68W, 1-year Advanced Security License and Support<br>Cisco Meraki MX68W, 3-year Advanced Security License and Support<br>Cisco Meraki MX68W, 5-year Advanced Security License and Support<br>Cisco Meraki MX68W, 7-year Advanced Security License and Support |
| | LIC-MX68W-SDW-1Y<br>LIC-MX68W-SDW-3Y<br>LIC-MX68W-SDW-5Y<br>LIC-MX68W-SDW-7Y | Cisco Meraki MX68W, 1-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX68W, 3-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX68W, 5-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX68W, 7-year Secure SD-WAN Plus License and Support |
| **MX68CW-HW-NA (North America)**<br><br>**MX68CW-HW-WW (worldwide)** | LIC-MX68CW-ENT-1Y<br>LIC-MX68CW-ENT-3Y<br>LIC-MX68CW-ENT-5Y<br>LIC-MX68CW-ENT-7Y | Cisco Meraki MX68CW, 1-year Enterprise License and Support<br>Cisco Meraki MX68CW, 3-year Enterprise License and Support<br>Cisco Meraki MX68CW, 5-year Enterprise License and Support<br>Cisco Meraki MX68CW, 7-year Enterprise License and Support |
| | LIC-MX68CW-SEC-1Y<br>LIC-MX68CW-SEC-3Y<br>LIC-MX68CW-SEC-5Y<br>LIC-MX68CW-SEC-7Y | Cisco Meraki MX68CW, 1-year Advanced Security License and Support<br>Cisco Meraki MX68CW, 3-year Advanced Security License and Support<br>Cisco Meraki MX68CW, 5-year Advanced Security License and Support<br>Cisco Meraki MX68CW, 7-year Advanced Security License and Support |
| | LIC-MX68CW-SDW-1Y<br>LIC-MX68CW-SDW-3Y<br>LIC-MX68CW-SDW-5Y<br>LIC-MX68CW-SDW-7Y | Cisco Meraki MX68CW, 1-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX68CW, 3-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX68CW, 5-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX68CW, 7-year Secure SD-WAN Plus License and Support |

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| | LIC-MX75-SEC-1Y<br>LIC-MX75-SEC-3Y<br>LIC-MX75-SEC-5Y | Cisco Meraki MX75, 1-year Advanced Security License and Support<br>Cisco Meraki MX75, 3-year Advanced Security License and Support<br>Cisco Meraki MX75, 5-year Advanced Security License and Support |
| | LIC-MX75-SDW-1Y<br>LIC-MX75-SDW-3Y<br>LIC-MX75-SDW-5Y | Cisco Meraki MX75, 1-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX75, 3-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX75, 5-year Secure SD-WAN Plus License and Support |

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| | LIC-MX85-SEC-1Y<br>LIC-MX85-SEC-3Y<br>LIC-MX85-SEC-5Y | Cisco Meraki MX85, 1-year Advanced Security License and Support<br>Cisco Meraki MX85, 3-year Advanced Security License and Support<br>Cisco Meraki MX85, 5-year Advanced Security License and Support |
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| **MX95-HW** | LIC-MX95-ENT-1Y<br>LIC-MX95-ENT-3Y<br>LIC-MX95-ENT-5Y | Cisco Meraki MX95, 1-year Enterprise License and Support<br>Cisco Meraki MX95, 3-year Enterprise License and Support<br>Cisco Meraki MX95, 5-year Enterprise License and Support |
| | LIC-MX95-SEC-1Y<br>LIC-MX95-SEC-3Y<br>LIC-MX95-SEC-5Y | Cisco Meraki MX95, 1-year Advanced Security License and Support<br>Cisco Meraki MX95, 3-year Advanced Security License and Support<br>Cisco Meraki MX95, 5-year Advanced Security License and Support |
| | LIC-MX95-SDW-1Y<br>LIC-MX95-SDW-3Y<br>LIC-MX95-SDW-5Y | Cisco Meraki MX95, 1-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX95, 3-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX95, 5-year Secure SD-WAN Plus License and Support |
| **MX105-HW** | LIC-MX105-ENT-1Y<br>LIC-MX105-ENT-3Y<br>LIC-MX105-ENT-5Y | Cisco Meraki MX105, 1-year Enterprise License and Support<br>Cisco Meraki MX105, 3-year Enterprise License and Support<br>Cisco Meraki MX105, 5-year Enterprise License and Support |
| | LIC-MX105-SEC-1Y<br>LIC-MX105-SEC-3Y<br>LIC-MX105-SEC-5Y | Cisco Meraki MX105, 1-year Advanced Security License and Support<br>Cisco Meraki MX105, 3-year Advanced Security License and Support<br>Cisco Meraki MX105, 5-year Advanced Security License and Support |
| | LIC-MX105-SDW-1Y<br>LIC-MX105-SDW-3Y<br>LIC-MX105-SDW-5Y | Cisco Meraki MX105, 1-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX105, 3-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX105, 5-year Secure SD-WAN Plus License and Support |

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| | LIC-MX250-SEC-1Y<br>LIC-MX250-SEC-3Y<br>LIC-MX250-SEC-5Y<br>LIC-MX250-SEC-7Y | Cisco Meraki MX250, 1-year Advanced Security License and Support<br>Cisco Meraki MX250, 3-year Advanced Security License and Support<br>Cisco Meraki MX250, 5-year Advanced Security License and Support<br>Cisco Meraki MX250, 7-year Advanced Security License and Support |
| | LIC-MX250-SDW-1Y<br>LIC-MX250-SDW-3Y<br>LIC-MX250-SDW-5Y<br>LIC-MX250-SDW-7Y | Cisco Meraki MX250, 1-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX250, 3-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX250, 5-year Secure SD-WAN Plus License and Support<br>Cisco Meraki MX250, 7-year Secure SD-WAN Plus License and Support |

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| | LIC-MX450-ENT-5Y | Cisco Meraki MX450, 5-year Enterprise License and Support |
| | LIC-MX450-ENT-7Y | Cisco Meraki MX450, 7-year Enterprise License and Support |
| | LIC-MX450-SEC-1Y | Cisco Meraki MX450, 1-year Advanced Security License and Support |
| | LIC-MX450-SEC-3Y | Cisco Meraki MX450, 3-year Advanced Security License and Support |
| | LIC-MX450-SEC-5Y | Cisco Meraki MX450, 5-year Advanced Security License and Support |
| | LIC-MX450-SEC-7Y | Cisco Meraki MX450, 7-year Advanced Security License and Support |
| | LIC-MX450-SDW-1Y | Cisco Meraki MX450, 1-year Secure SD-WAN Plus License and Support |
| | LIC-MX450-SDW-3Y | Cisco Meraki MX450, 3-year Secure SD-WAN Plus License and Support |
| | LIC-MX450-SDW-5Y | Cisco Meraki MX450, 5-year Secure SD-WAN Plus License and Support |
| | LIC-MX450-SDW-7Y | Cisco Meraki MX450, 7-year Secure SD-WAN Plus License and Support |

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| **C8455-G2-MX** | LIC-C8455-ENT-1Y<br>LIC-C8455-ENT-3Y<br>LIC-C8455-ENT-5Y<br>LIC-C8455-ENT-7Y | Cisco C8455 MX, 1-year Enterprise License and Support<br>Cisco C8455 MX, 3-year Enterprise License and Support<br>Cisco C8455 MX, 5-year Enterprise License and Support<br>Cisco C8455 MX, 7-year Enterprise License and Support |
| | LIC-C8455-SEC-1Y<br>LIC-C8455-SEC-3Y<br>LIC-C8455-SEC-5Y<br>LIC-C8455-SEC-7Y | Cisco C8455 MX, 1-year Advanced Security License and Support<br>Cisco C8455 MX, 3-year Advanced Security License and Support<br>Cisco C8455 MX, 5-year Advanced Security License and Support<br>Cisco C8455 MX, 7-year Advanced Security License and Support |
| | LIC-C8455-SDW-1Y<br>LIC-C8455-SDW-3Y<br>LIC-C8455-SDW-5Y<br>LIC-C8455-SDW-7Y | Cisco C8455 MX, 1-year Advanced Security License and Support<br>Cisco C8455 MX, 3-year Advanced Security License and Support<br>Cisco C8455 MX, 5-year Advanced Security License and Support<br>Cisco C8455 MX, 7-year Advanced Security License and Support |

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| **C8355-G2-MX** | LIC-C8355-ENT-1Y<br>LIC-C8355-ENT-3Y<br>LIC-C8355-ENT-5Y<br>LIC-C8355-ENT-7Y | Cisco C8355-G2-MX, 1-year Enterprise License and Support<br>Cisco C8355-G2-MX, 3-year Enterprise License and Support<br>Cisco C8355-G2-MX, 5-year Enterprise License and Support<br>Cisco C8355-G2-MX, 7-year Enterprise License and Support |
| | LIC-C8355-SEC-1Y<br>LIC-C8355-SEC-3Y<br>LIC-C8355-SEC-5Y<br>LIC-C8355-SEC-7Y | Cisco C8355-G2-MX, 1-year Advanced Security License and Support<br>Cisco C8355-G2-MX, 3-year Advanced Security License and Support<br>Cisco C8355-G2-MX, 5-year Advanced Security License and Support<br>Cisco C8355-G2-MX, 7-year Advanced Security License and Support |
| | LIC-C8355-SDW-1Y<br>LIC-C8355-SDW-3Y<br>LIC-C8355-SDW-5Y<br>LIC-C8355-SDW-7Y | Cisco C8355-G2-MX, 1-year Advanced Security License and Support<br>Cisco C8355-G2-MX, 3-year Advanced Security License and Support<br>Cisco C8355-G2-MX, 5-year Advanced Security License and Support<br>Cisco C8355-G2-MX, 7-year Advanced Security License and Support |
| **vMX** | LIC-VMX-S-ENT-1Y<br>LIC-VMX-S-ENT-3Y<br>LIC-VMX-S-ENT-5Y | Cisco Meraki Small vMX, 1-year License and Support<br>Cisco Meraki Small vMX, 3-year License and Support<br>Cisco Meraki Small vMX, 5-year License and Support |
| | LIC-VMX-S-SEC-1Y<br>LIC-VMX-S-SEC-3Y<br>LIC-VMX-S-SEC-5Y | Cisco Meraki Small vMX Advanced Security, 1-year License and Support<br>Cisco Meraki Small vMX Advanced Security, 3-year License and Support<br>Cisco Meraki Small vMX Advanced Security, 5-year License and Support |
| | LIC-VMX-M-ENT-1Y<br>LIC-VMX-M-ENT-3Y<br>LIC-VMX-M-ENT-5Y | Cisco Meraki Medium vMX, 1-year License and Support<br>Cisco Meraki Medium vMX, 3-year License and Support<br>Cisco Meraki Medium vMX, 5-year License and Support |
| | LIC-VMX-M-SEC-1Y<br>LIC-VMX-M-SEC-3Y<br>LIC-VMX-M-SEC-5Y | Cisco Meraki Medium vMX Advanced Security, 1-year License and Support<br>Cisco Meraki Medium vMX Advanced Security, 3-year License and Support<br>Cisco Meraki Medium vMX Advanced Security, 5-year License and Support |
| | LIC-VMX-L-ENT-1Y<br>LIC-VMX-L-ENT-3Y<br>LIC-VMX-L-ENT-5Y | Cisco Meraki Large vMX, 1-year License and Support<br>Cisco Meraki Large vMX, 3-year License and Support<br>Cisco Meraki Large vMX, 5-year License and Support |
| | LIC-VMX-L-SEC-1Y<br>LIC-VMX-L-SEC-3Y<br>LIC-VMX-L-SEC-5Y | Cisco Meraki vMX Large Advanced Security, 1-year License and Support<br>Cisco Meraki vMX Large Advanced Security, 3-year License and Support<br>Cisco Meraki vMX Large Advanced Security, 5-year License and Support |

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CSM-8317-YT 07/25

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# Hardware and license SKU list

| Model | | License | Description |
|---|---|---|---|
| **MX** | MX67 and MX68 models | LIC-MX-S-E<br>LIC-MX-S-A | Meraki MX Small Essentials Subscription License and Support Meraki MX Small Advantage Subscription License and Support |
| | MX67 and MX68 models | LIC-MX-M-E<br>LIC-MX-M-A | Meraki MX Medium Essentials Subscription License and Support Meraki MX Medium Advantage Subscription License and Support |
| | MX67 and MX68 models | LIC-MX-L-E<br>LIC-MX-L-A | Meraki MX Large Essentials Subscription License and Support Meraki MX Large Advantage Subscription License and Support |
| | MX250 and MX450 models | LIC-MX-XL-E<br>LIC-MX-XL-A | Meraki MX X-Large Essentials Subscription License and Support Meraki MX X-Large Advantage Subscription License and Support |
| | Z models | LIC-Z-E<br>LIC-Z-A | Meraki MX X-Large Essentials Subscription License and Support Meraki MX X-Large Advantage Subscription License and Support |
| **C8K-MK** | C8111-G2-MX<br>C8111-C-G2-MX | LIC-CSR-S-E<br>LIC-CSR-S-A | Cisco Sec 8000 MX Router Small Essentials Subscription License and Support<br>Cisco Sec 8000 MX Router Small Advantage Subscription License and Support |
| | C8121-G2-MX<br>C8121-W-G2-MX<br>C8121-CW-G2-MX | LIC-CSR-S-E<br>LIC-CSR-S-A | Cisco Sec 8000 MX Router Small Essentials Subscription License and Support<br>Cisco Sec 8000 MX Router Small Advantage Subscription License and Support |
| | C8355-G2-MX | LIC-CSR-L-E<br>LIC-CSR-L-A | Cisco Sec 8000 MX Router Large Essentials Subscription License and Support<br>Cisco Sec 8000 MX Router Large Advantage Subscription License and Support |
| | C8455-G2-MX | LIC-CSR-XL-E<br>LIC-CSR-XL-A | Cisco Sec 8000 MX Router XLarge Essentials Subscription License and Support<br>Cisco Sec 8000 MX Router XLarge Advantage Subscription License and Support |

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CSM-8317-YT 07/25

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