

KCOM

Business



Meraki



MX FAMILY DATASHEET

Meraki MX Cloud-Managed Security and SD-Wan

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. Organisations 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 simple, making it ideal for distributed branches, campuses, and data centre 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 optimised 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, Alibaba Cloud and private cloud support through Cisco NFVIS.



Advanced quality of experience (QoE) analytics

- Monitor end-to-end health of web applications at a glance across the LAN, WAN, and application server
 - Machine-learned smart application thresholds autonomously apply to identify true anomalies based on past behavioural patterns
 - Monitor the health of all MX WAN links, including cellular, across your entire organisation
 - Get detailed hop-by-hop VoIP performance analysis across all uplinks
-

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

- Next-gen 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: PCI-compliant IPS sensor using industry-leading SNORT® signature database from Cisco
 - Granular and automatically updated category-based content filtering
 - Other capabilities: SSL decryption/inspection, data loss prevention DLP, cloud access security broker (CASB), SaaS tenant restrictions, granular app control, file type control
-

Branch gateway services

- Built-in DHCP, NAT, QoS, and VLAN management services
- Web caching: accelerates frequently accessed content
- Load balancing: combines multiple WAN links into a single high-speed interface, 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 LTE Advanced or 3G/4G modems

Industry-leading cloud management

- Unified firewall, switching, wireless LAN, and mobile device management through an intuitive web-based dashboard
 - Template-based settings 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
 - Summary reports with user, device, and application usage details archived in the cloud
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Intelligent site-to-site VPN with Cisco Meraki SD-WAN

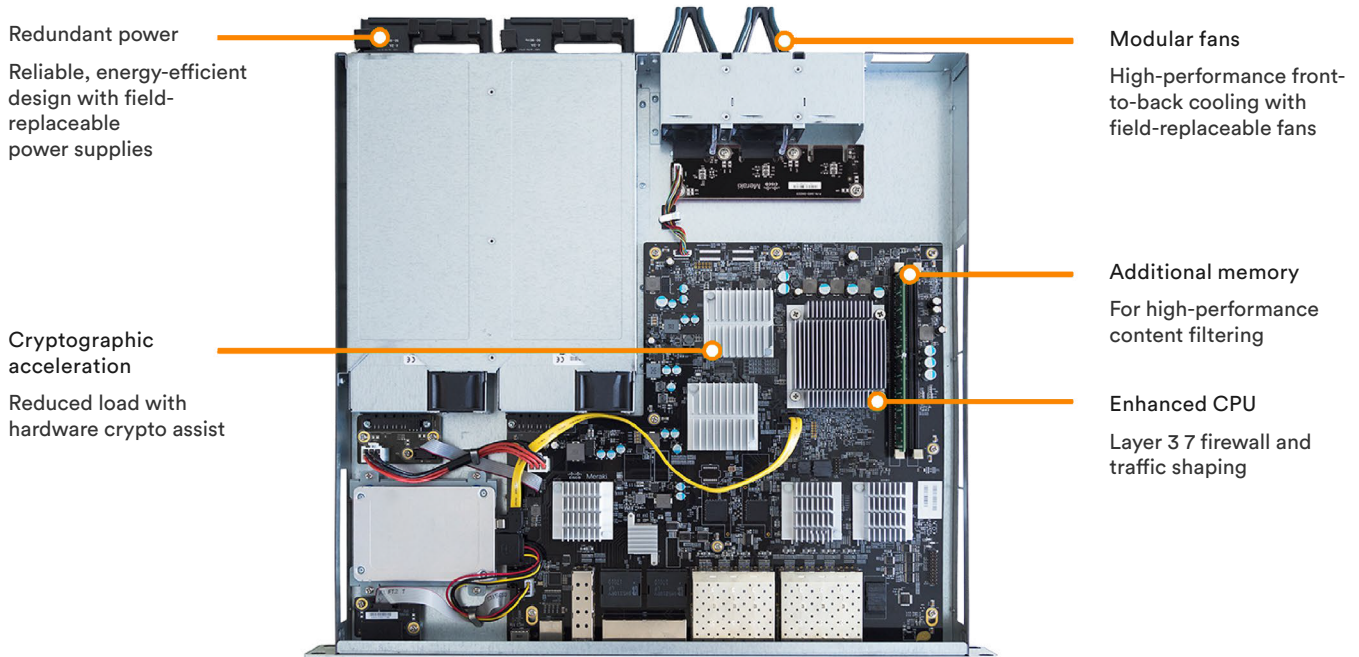
- Auto VPN allows automatic VPN route generation using IKE/IKEv2/IPsec setup; runs on physical MX appliances and as a virtual instance in public and private clouds
 - SD-WAN with active/active VPN, policy-based routing, dynamic VPN path selection, and support for application-layer performance profiles to ensure prioritisation of application types that matter
 - 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 at no extra cost with support for native Windows, Mac OS X, iPad, and Android clients
 - Support for Cisco AnyConnect remote client VPN (AnyConnect licence 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 customisable SD-WAN with Catalyst.

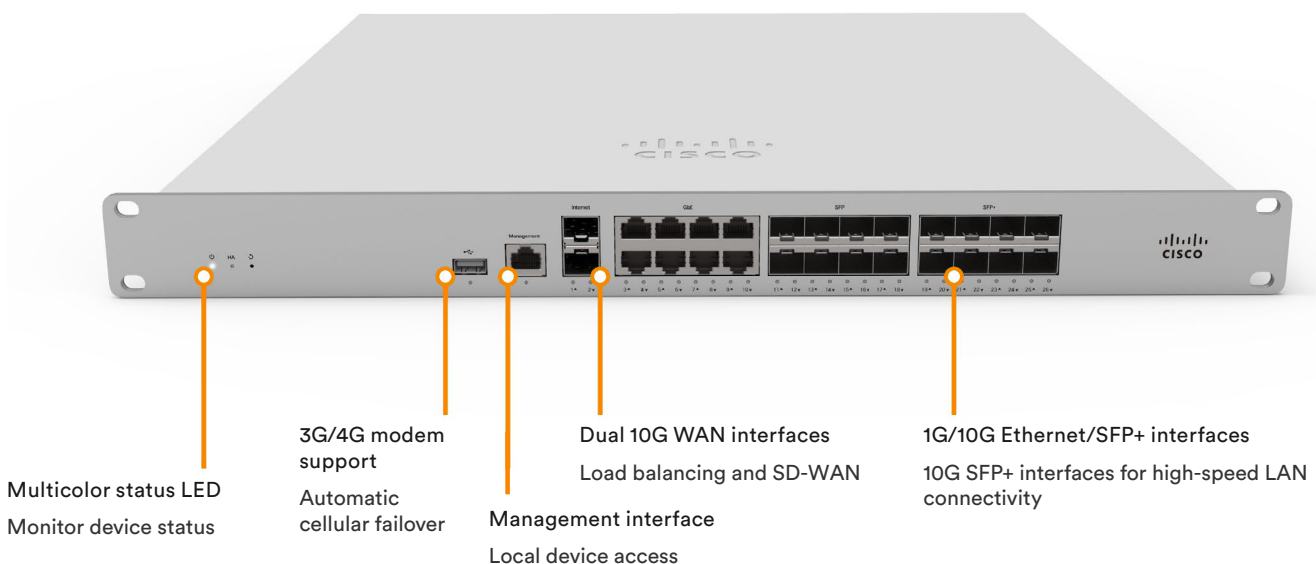
Inside of Meraki MX

MX450 shown, features vary by model



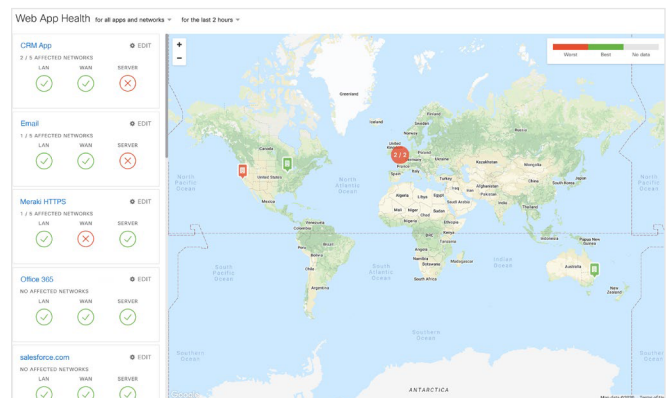
Front of the Cisco Meraki MX

MX450 shown, features vary by model



Security and SD-WAN

Security and SD-WAN is delivered by MX appliances. Security and SD-WAN has helped thousands of organisations rapidly save 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 optimise quality of experience (QoE) for applications, regardless of where they might be hosted.

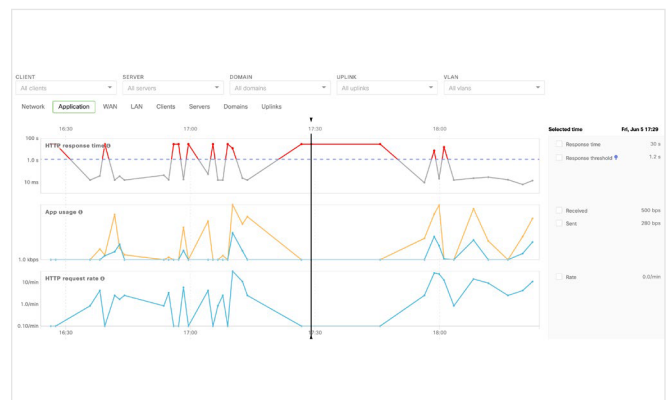
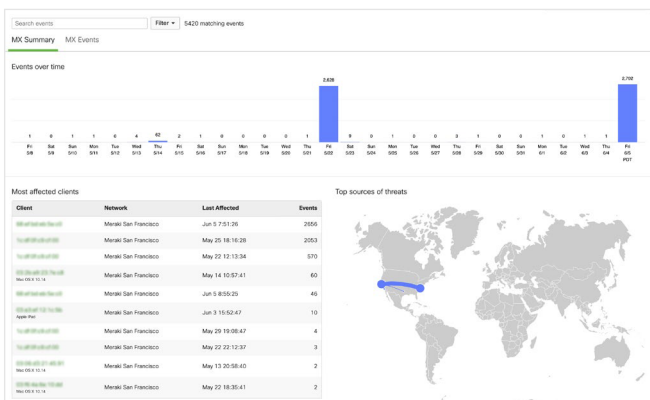


Transport independence

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

Advanced analytics

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



Native security

Integrated with next-gen firewall, content filtering, Advanced Malware Protection (AMP), and IDS/IPS informed by Cisco Talos.

SaaS quality of experience

Manual and performance-based path selection using advanced analytics.

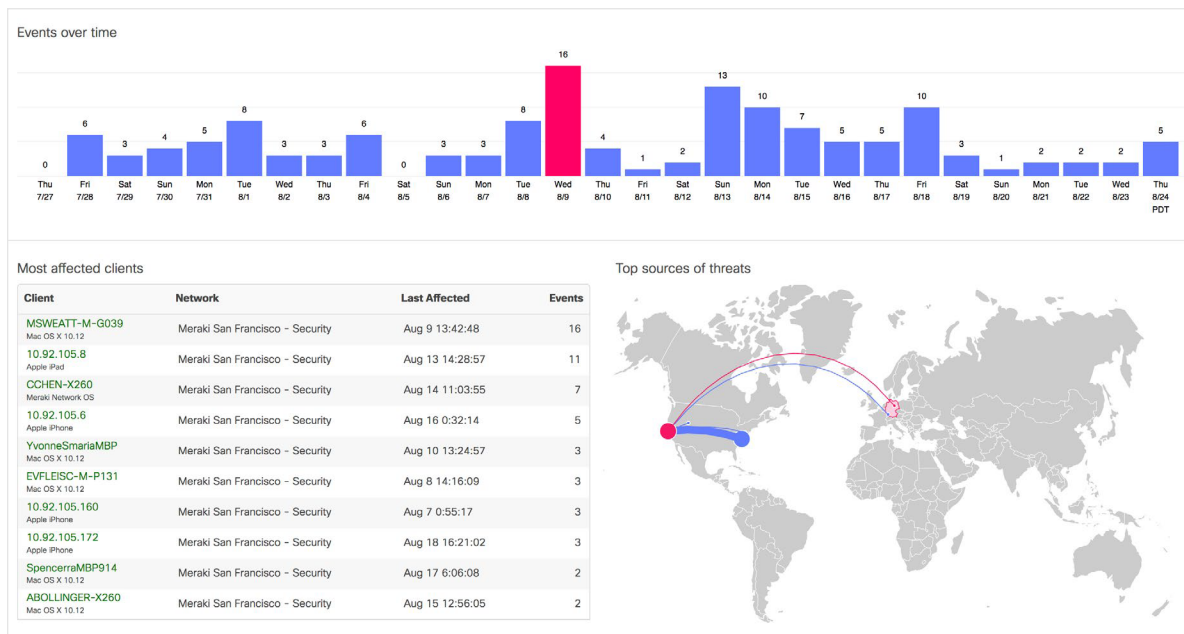
Ironclad security

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.

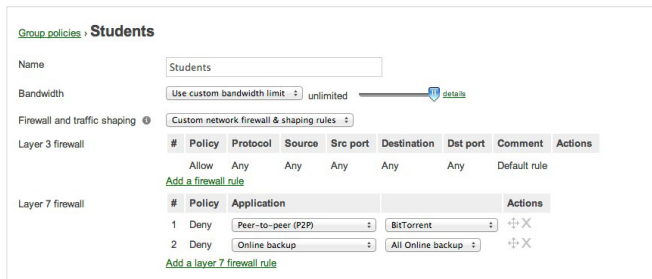
Layer 7 fingerprinting technology lets administrators identify unwanted content and applications and prevents recreational apps like BitTorrent from wasting precious bandwidth.

The integrated Cisco SNORT® engine delivers superior intrusion prevention coverage, a key requirement for PCI 3.2 compliance. The MX also uses the Webroot BrightCloud® URL categorisation database for CIPA/IWF-compliant content filtering, Cisco AMP engine for anti-malware, Cisco AMP Threat Grid - Cloud, and MaxMind for GeoIP-based security rules.

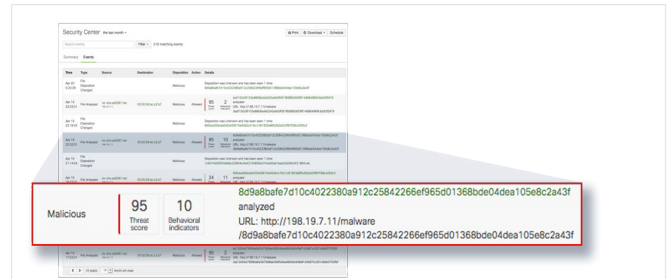
Best of all, these industry-leading layer 7 security engines and signatures are always kept up to date via the cloud, simplifying network security management and providing peace of mind to IT administrators.



Organisation-level threat assessment with Meraki Security Centre



Identity-based policy management



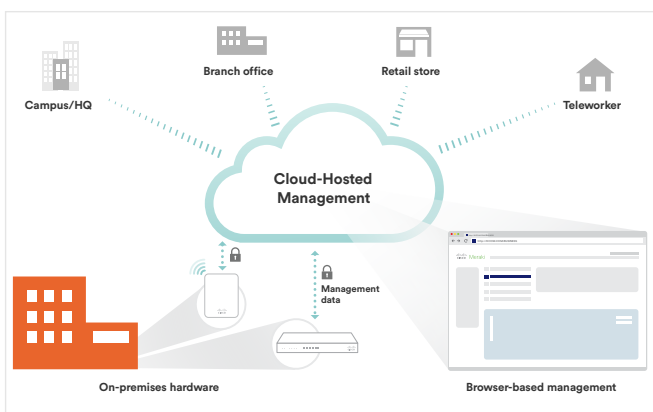
Cisco AMP Threat Grid - Cloud

Cloud-managed architecture

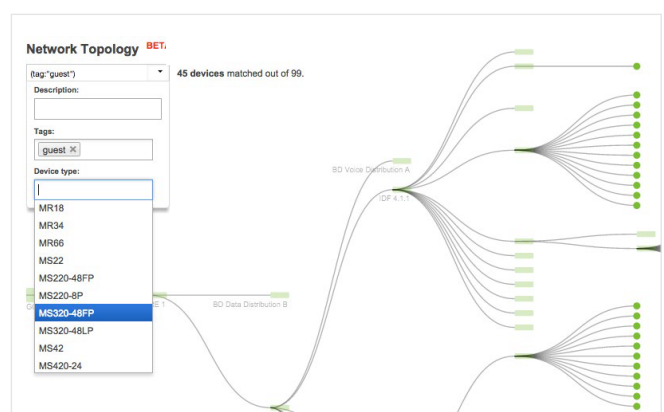
Built on the award-winning cloud architecture of Cisco Meraki, the MX is the industry's only 100% cloud-managed solution for unified threat management (UTM) and SD-WAN in a single appliance. MX appliances self-provision, automatically pulling policies and configuration settings from the cloud. Powerful 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 24/7 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

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

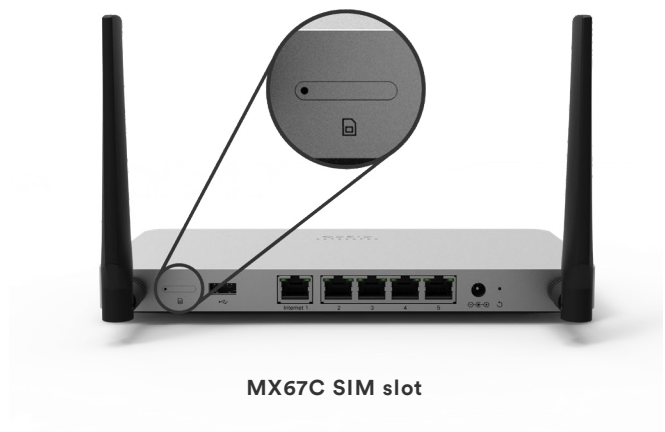


MX68CW security and SD-WAN appliance

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.

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



MX67C SIM slot

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.

- 2 802.3at 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



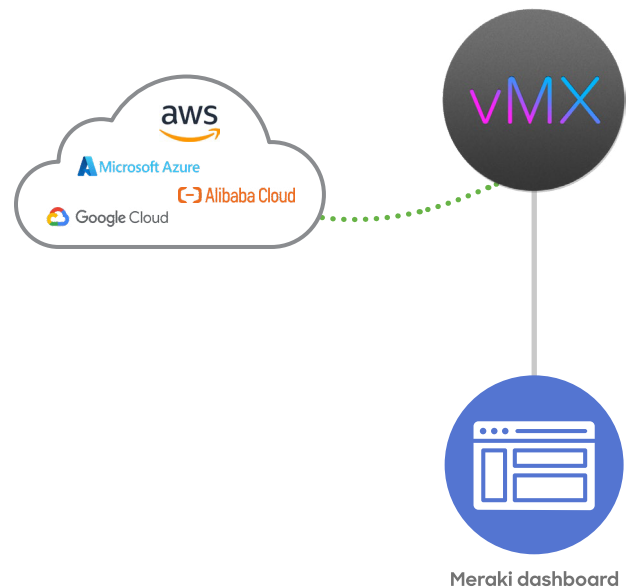
MX68 port configuration

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 organisations 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 centre.




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 Auto VPN
- Extend SD-WAN to public cloud environments for optimised access to business-critical resources
- Only a Meraki licence is required
- Available in three VPN throughput-based sizes to suit a wide range of use cases: small, medium, and large.



vMX functions like a VPN concentrator, and includes SD-WAN functionality like other MX devices. For public cloud environments, a vMX is added via the respective public cloud marketplace. Setup and management occurs in the Meraki dashboard, just like any other MX.





Desktop and all-in-one models

| | MX67 | MX67W | MX67C |
|---|---|--|---|
| |  |  |  |
| Recommended use case | Small branch with up to 50 users | | |
| NGFW throughput | 700 Mbps | 700 Mbps | 700 Mbps |
| Advanced security services throughput ¹ | | | |
| Maximum site-to-site VPN throughput | 300 Mbps | 300 Mbps | 300 Mbps |
| Maximum site-to-site VPN tunnels ² | 50 | 50 | 50 |
| WAN interfaces (dedicated) | 1 GbE RJ45 | 1 GbE RJ45 | 1 GbE RJ45 1 integrated Cat 6 LTE cellular modem |
| Dual-purpose | 1 GbE RJ45 | 1 GbE RJ45 | 1 GbE RJ45 |
| LAN interfaces (fixed) | 4 GbE RJ45 | 4 GbE RJ45 | 4 GbE RJ45 |
| Mounting | Desktop or wall mount | Desktop or wall mount | Desktop or wall mount |
| Dimensions (w x d x h) | 9.4 in x 5.1 in x 1.1 in 239 mm x 130 mm x 27 mm) | 9.4 in x 6.5 in x 1.1 in 239 mm x 164 mm x 27 mm) | 9.4 in x 6.9 in x 1.1 in 239 mm x 176 mm x 27 mm) |
| Weight | 1.74 lb 0.7 kg | 1.84 lb 0.83 kg) | 1.87 lb 0.85 kg) |
| Power supply | 30 W DC | 30 W DC | 30 W DC |
| Power load (idle/max) | 5 W/14 W | 15 W/23 W | 6 W/17 W |
| Operating temperature | 32 °F to 113 °F 0 °C to 45 °C | 32 °F to 113 °F 0 °C to 45 °C | 32 °F to 113 °F 0 °C to 45 °C |
| Humidity | 5% to 95% | 5% to 95% | 5% to 95% |

¹Throughput with advanced security services enabled including IDS/IPS, AMP, and secure malware analytics (formerly Threat Grid) can reach the same levels as that with NGFW using trusted traffic exclusions.

²The maximum VPN tunnels are 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 tunnel.



Desktop and all-in-one models

| | MX68 | MX68W | MX68CW | MX75 |
|---|---|---|--|---|
| |  |  |  |  |
| Recommended use case | Small branch with up to 50 users | | | Small branch with up to 200 users |
| NGFW throughput | | | | |
| Advanced security services throughput ¹ | 700 Mbps | 700 Mbps | 700 Mbps | 1 Gbps |
| Maximum site-to-site VPN throughput | 300 Mbps | 300 Mbps | 300 Mbps | 900 Mbps |
| Maximum site-to-site VPN tunnels ² | 50 | 50 | 50 | 75 |
| WAN interfaces (dedicated) | 2 GbE RJ45 | 2 GbE RJ45 | 2 GbE RJ45 1 integrated Cat 6 LTE cellular modem (cellular failover) | 1 GbE SFP 2 GbE RJ45 |
| Dual-purpose | - | - | - | - |
| LAN interfaces (fixed) | 10 GbE RJ45 2 PoE | 10 GbE RJ45 2 PoE | 10 GbE RJ45 2 PoE | 10 GbE RJ45 2 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 in x 5.8 in x 1.1 in 284 mm x 148 mm x 27 mm) | 11.2 in x 6.8 in x 1.1 in 284 mm x 172 mm x 27 mm) | 11.2 in x 7 in x 1.1 in 284 mm x 178 mm x 27 mm) | 11.14 in x 5.83 in x 1.06 in 283 mm x 148 mm 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 | 100 W DC | 100 W DC | 100 W DC | 100 W DC |
| Power load (idle/max) | 11 W/79 W | 19 W/87 W | 19 W/89 W | 12 W/96 W |
| Operating temperature | 32 °F to 113 °F 0 °C to 45 °C | 32 °F to 113 °F 0 °C to 45 °C | 32 °F to 113 °F 0 °C to 45 °C | 32 °F to 113 °F 0 °C to 45 °C |
| Humidity | 5% to 95% | 5% to 95% | 5% to 95% | 5% to 95% |

¹Throughput with advanced security services enabled including IDS/IPS, AMP, and secure malware analytics (formerly Threat Grid) can reach the same levels as that with NGFW using trusted traffic exclusions.

²The maximum VPN tunnels are 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.




Rack mount models

| | MX85 | MX95 |
|---|---|---|
| |  |  |
| Recommended use case | Small to medium branch with up to 250 users | Medium to large branch with up to 500 users |
| NGFW throughput | | |
| Advanced security services throughput ¹ | 1 Gbps | 2.5 Gbps |
| Maximum site-to-site VPN throughput | 1 Gbps | 2.5 Gbps |
| Maximum site-to-site VPN tunnels ² | 200 | 500 |
| WAN interfaces (dedicated) | 2 GbE SFP 2 GbE RJ45 1x PoE | 2 10 GbE SFP 2 2.5 GbE RJ45 1x PoE |
| Dual-purpose | - | - |
| LAN interfaces (fixed) | 8 GbE RJ45 2x GbE SFP | 4 GbE RJ45 2 10 GbE SFP |
| Mounting | 1U rack | 1U rack |
| Dimensions (w x d x h) | 19 in x 9.8 in x 1.7 in 484.6 mm x 250 mm x 43.8 mm) | 19.08 in x 11.23 in x 1.73 in 484.6 mm x 285.2 mm x 44 mm) |
| Weight | 8.2 lb 3.7 kg | 6.99 lb 3.17 kg) |
| Power supply | Internal 100 127 V 200 240 V 50/60 Hz) | Internal 100 127 V 200 240 V 50/60 Hz) |
| Power load (idle/max) | 12 W/55 W | 42 W/109 W |
| Operating temperature | 32 °F to 104 °F 0 °C to 40 °C | 32 °F to 104 °F 0 °C to 40 °C |
| Humidity | 5% to 95% | 5% to 95% |

¹Throughput with advanced security services enabled including IDS/IPS, AMP, and secure malware analytics (formerly Threat Grid) can reach the same levels as that with NGFW using trusted traffic exclusions.

²The maximum VPN tunnels are 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.

Rack mount models

| | MX105 | MX250 | MX450 |
|---|---|--|---|
| |  |  |  |
| Recommended use case | 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 |
| NGFW throughput | | | |
| Advanced security services throughput ¹ | 5 Gbps | 7.5 Gbps | 10 Gbps |
| Maximum site-to-site VPN throughput | 3 Gbps | 3.5 Gbps | 4.5 Gbps |
| Maximum site-to-site VPN tunnels ² | 1,000 | 3,000 | 5,000 |
| WAN interfaces (dedicated) | 2 10GbE SFP 2 2.5GbE RJ45 1x PoE | 2 10 GbE SFP | 2 10 GbE SFP |
| Dual-purpose | - | - | - |
| LAN interfaces (fixed) | 4 GbE RJ45 2 10 GbE SFP | 8 GbE RJ45 8 GbE SFP 8 10 GbE SFP | 8 GbE RJ45 8 GbE SFP 8 10 GbE SFP |
| Mounting | 1U rack | 1U rack | 1U rack |
| Dimensions (w x d x h) | 19.08 in x 12.4 in x 1.73 in 484.6 mm x 315 mm x 44 mm) | 19 in x 17.3 in x 1.75 in 483 mm x 440 mm x 44 mm) | 19 in x 17.3 in x 1.75 in 483 mm x 440 mm x 44 mm) |
| Weight | 10.74 lb 4.87 kg)) (with two fans and two PSUs) | 16 lb 7.3 kg | 16 lb 7.3 kg |
| Power supply | Modular 100 127 V 200 240 V 50/60 Hz) 2 150 W PSU | Modular 100 220 V 50/60 Hz 2 250 W PSU | Modular 100 220 V 50/60 Hz 2 250 W PSU |
| Power load (idle/max) | 53 W/123 W | 105 W/190 W | 105 W/190 W |
| Operating temperature | 32 °F to 104 °F 0 °C to 40 °C | 32 °F to 104 °F 0 °C to 40 °C | 32 °F to 104 °F 0 °C to 40 °C |
| Humidity | 5% to 95% | 5% to 95% | 5% to 95% |

¹Throughput with advanced security services enabled including IDS/IPS, AMP, and secure malware analytics (formerly Threat Grid) can reach the same levels as that with NGFW using trusted traffic exclusions.

²The maximum VPN tunnels are 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.

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:

| | vMX – Small | vMX – Medium | vMX – Large |
|--|---|---|---|
| |  |  |  |
| Recommended use cases | Extend secure SD-WAN connectivity from branch sites to resources in public and private cloud environments | | |
| Interfaces | Virtual | Virtual | Virtual |
| Supported cloud platforms | AWS Azure Google Cloud Alibaba Cloud Cisco NFVIS | AWS Azure Google Cloud Alibaba Cloud Cisco NFVIS | AWS Azure Google Cloud Alibaba Cloud Cisco NFVIS |
| 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 |

Included in the box




| Package contents | Model(s) |
|---|---|
| Mounting kit | MX67, MX67W, MX67C, MX68, MX68W, MX68CW, MX250, MX450 |
| Cat 5 Ethernet cable 2 | MX67, MX67W, MX67C, MX68, MX68W, MX68CW |
| AC power adapter | MX67, MX67W, MX67C, MX68, MX68W, MX68CW, MX75 |
| Wireless external omni antenna 2 | MX67W, MX68W |
| 150W power supply 2 | MX105 |
| 250W power supply 2 | MX250, MX450 |
| System fan 2 | MX105, MX250, MX450 |
| SIM card ejector tool | MX67C, MX68CW |
| Fixed external wireless and LTE paddle antennas | MX68CW |
| Removable external LTE paddle antennas | MX67C |

Lifetime warranty with next-day advanced 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, centralised systems management, and phone support under a single, easy-to-understand model.

Per-device licensing

There are three licence 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 licence for your use case.

| FEATURE 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 |
| Content filtering | ● | ● | X |
| Internet outages from ThousandEyes | ● | X | X |
| Internet intelligence from ThousandEyes | ● | ○ | X |
| Smart layer 7 local internet breakout | ● | X | X |
| Performance-based internet routing | ● | X | X |
| ML-powered SD-WAN analytics | ● | X | X |
| Mixed-licence environment | ● | ● | X |

Mixed-licence environments

The SD-WAN Plus and Advanced Security Licences can be selected on a per-device basis for a mixed-licence deployment. In this way, some sites could have MXs with full SD-WAN Plus licence functionality and remaining sites with Advanced Security licence features. Enterprise Licences can only be applied organisation-wide.

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.

Accessories

The Meraki 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.



Accessories/SFP transceivers

Supported Cisco Meraki accessory modules

| Model | Description |
|-----------------|--|
| MA SFP 1GB SX | Cisco Meraki 1 GbE SFP SX Fibre 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 CBLTA 1M | Cisco Meraki 10 GbE Twinax Cable with SFP Connectors 10GSFP Cu, range: 3 m) for MX95, MX105, MX250, MX450 |
| MA CBLTA 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 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 |

Power cables

1x power cable required for each MX; 2x power cables required for MX105, MX250, and MX450. For U.S. customers, all required power cables will be automatically included. Customers outside the U.S. are required to order power cords separately.

SKU

MA PWR CORD US
MA PWR CORD EU
MA PWR CORD EU
MA PWR CORD AU



MX specifications

Management

Managed via the web using the Cisco Meraki dashboard

Single dashboard management of wired and wireless networks

Low-touch remote deployment (no staging needed)

Automatic firmware upgrades and security patches

Template-based multi-network 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 support

Syslog integration

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

Auto VPN: automated site-to-site IPsec VPN for hub-and-spoke or mesh topologies

Client IPsec L2TP VPN

Multiple WAN IP, PPPoE, NAT

VLAN support and DHCP services

Static 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 uplink¹

¹ MX67C and MX68CW only

MX specifications

Advanced security service¹

Content filtering Webroot BrightCloud CIPA-compliant URL database)

Web-search filtering (including Google/Bing SafeSearch)

YouTube for Schools

Intrusion-prevention sensor (Cisco SNORT®-based)

Cisco Advanced Malware Protection AMP

AMP Threat Grid ²

¹ Advanced security services require Advanced Security licence

² Threat Grid services require additional sample pack licensing

Integrated wireless (MX67W, MX68W, MX68CW)

1 802.11a/n/ac 5 GHz radio

1 802.11b/g/n 2.4 GHz) radio

Max data rate 1.3 Gbps aggregate
MX67W, MX68W, MX68CW

2 2 MU MIMO with two spatial streams
MX67W, MX68W, MX68CW

2 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, 5.250 5.350 GHz UNII 2, 5.470 5.725 GHz UNII 2e), 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

Integrated cellular (MX67C 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)

2 PoE 802.3at) LAN ports

30 W 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.

Hardware and licence SKU list

| Model | Licence | Description |
|---|--|--|
| MX67 HW | LIC MX67 ENT 1Y LIC MX67 ENT 3Y LIC MX67 ENT 5Y LIC MX67 ENT 7Y | Cisco Meraki MX67, 1-year Enterprise Licence and Support Cisco Meraki MX67, 3-year Enterprise Licence and Support Cisco Meraki MX67, 5-year Enterprise Licence and Support Cisco Meraki MX67, 7-year Enterprise Licence and Support |
| | LIC MX67 SEC 1Y LIC MX67 SEC 3Y LIC MX67 SEC 5Y LIC MX67 SEC 7Y | Cisco Meraki MX67, 1-year Advanced Security Licence and Support Cisco Meraki MX67, 3-year Advanced Security Licence and Support Cisco Meraki MX67, 5-year Advanced Security Licence and Support Cisco Meraki MX67, 7-year Advanced Security Licence and Support |
| | LIC MX67 SDW 1Y LIC MX67 SDW 3Y LIC MX67 SDW 5Y LIC MX67 SDW 7Y | Cisco Meraki MX67, 1-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX67, 3-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX67, 5-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX67, 7-year Secure SD-WAN Plus Licence and Support |
| MX67W HW | LIC MX67W ENT 1Y LIC MX67W ENT 3Y LIC MX67W ENT 5Y LIC MX67W ENT 7Y | Cisco Meraki MX67W, 1-year Enterprise Licence and Support Cisco Meraki MX67W, 3-year Enterprise Licence and Support Cisco Meraki MX67W, 5-year Enterprise Licence and Support Cisco Meraki MX67W, 7-year Enterprise Licence and Support |
| | LIC MX67W SEC 1Y LIC MX67W SEC 3Y LIC MX67W SEC 5Y LIC MX67W SEC 7Y | Cisco Meraki MX67W, 1-year Advanced Security Licence and Support Cisco Meraki MX67W, 3-year Advanced Security Licence and Support Cisco Meraki MX67W, 5-year Advanced Security Licence and Support Cisco Meraki MX67W, 7-year Advanced Security Licence and Support |
| | LIC MX67W SDW 1Y LIC MX67W SDW 3Y LIC MX67W SDW 5Y LIC MX67W SDW 7Y | Cisco Meraki MX67W, 1-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX67W, 3-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX67W, 5-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX67W, 7-year Secure SD-WAN Plus Licence and Support |
| MX67C HW NA North America) MX67C HW WW (worldwide) | LIC MX67C ENT 1Y LIC MX67C ENT 3Y LIC MX67C ENT 5Y LIC MX67C ENT 7Y | Cisco Meraki MX67C, 1-year Enterprise Licence and Support Cisco Meraki MX67C, 3-year Enterprise Licence and Support Cisco Meraki MX67C, 5-year Enterprise Licence and Support Cisco Meraki MX67C, 7-year Enterprise Licence and Support |
| | LIC MX67C SEC 1Y LIC MX67C SEC 3Y LIC MX67C SEC 5Y LIC MX67C SEC 7Y | Cisco Meraki MX67C, 1-year Advanced Security Licence and Support Cisco Meraki MX67C, 3-year Advanced Security Licence and Support Cisco Meraki MX67C, 5-year Advanced Security Licence and Support Cisco Meraki MX67C, 7-year Advanced Security Licence and Support |
| | LIC MX67C SDW 1Y LIC MX67C SDW 3Y LIC MX67C SDW 5Y LIC MX67C SDW 7Y | Cisco Meraki MX67C, 1-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX67C, 3-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX67C, 5-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX67C, 7-year Secure SD-WAN Plus Licence and Support |

Hardware and licence SKU list

| Model | Licence | Description |
|--|--|--|
| MX68 HW | LIC MX68 ENT 1Y LIC MX68 ENT 3Y LIC MX68 ENT 5Y LIC MX68 ENT 7Y | Cisco Meraki MX68, 1-year Enterprise Licence and Support Cisco Meraki MX68, 3-year Enterprise Licence and Support Cisco Meraki MX68, 5-year Enterprise Licence and Support Cisco Meraki MX68, 7-year Enterprise Licence and Support |
| | LIC MX68 SEC 1Y LIC MX68 SEC 3Y LIC MX68 SEC 5Y LIC MX68 SEC 7Y | Cisco Meraki MX68, 1-year Advanced Security Licence and Support Cisco Meraki MX68, 3-year Advanced Security Licence and Support Cisco Meraki MX68, 5-year Advanced Security Licence and Support Cisco Meraki MX68, 7-year Advanced Security Licence and Support |
| | LIC MX68 SDW 1Y LIC MX68 SDW 3Y LIC MX68 SDW 5Y LIC MX68 SDW 7Y | Cisco Meraki MX68, 1-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX68, 3-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX68, 5-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX68, 7-year Secure SD-WAN Plus Licence and Support |
| MX68W HW | LIC MX68W ENT 1Y LIC MX68W ENT 3Y LIC MX68W ENT 5Y LIC MX68W ENT 7Y | Cisco Meraki MX68W, 1-year Enterprise Licence and Support Cisco Meraki MX68W, 3-year Enterprise Licence and Support Cisco Meraki MX68W, 5-year Enterprise Licence and Support Cisco Meraki MX68W, 7-year Enterprise Licence and Support |
| | LIC MX68W SEC 1Y LIC MX68W SEC 3Y LIC MX68W SEC 5Y LIC MX68W SEC 7Y | Cisco Meraki MX68W, 1-year Advanced Security Licence and Support Cisco Meraki MX68W, 3-year Advanced Security Licence and Support Cisco Meraki MX68W, 5-year Advanced Security Licence and Support Cisco Meraki MX68W, 7-year Advanced Security Licence and Support |
| | LIC MX68W SDW 1Y LIC MX68W SDW 3Y LIC MX68W SDW 5Y LIC MX68W SDW 7Y | Cisco Meraki MX68W, 1-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX68W, 3-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX68W, 5-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX68W, 7-year Secure SD-WAN Plus Licence and Support |
| MX68CW HW NA (North America) MX68CW HW WW (worldwide) | LIC MX68CW ENT 1Y LIC MX68CW ENT 3Y LIC MX68CW ENT 5Y LIC MX68CW ENT 7Y | Cisco Meraki MX68CW, 1-year Enterprise Licence and Support Cisco Meraki MX68CW, 3-year Enterprise Licence and Support Cisco Meraki MX68CW, 5-year Enterprise Licence and Support Cisco Meraki MX68CW, 7-year Enterprise Licence and Support |
| | LIC MX68CW SEC 1Y LIC MX68CW SEC 3Y LIC MX68CW SEC 5Y LIC MX68CW SEC 7Y | Cisco Meraki MX68CW, 1-year Advanced Security Licence and Support Cisco Meraki MX68CW, 3-year Advanced Security Licence and Support Cisco Meraki MX68CW, 5-year Advanced Security Licence and Support Cisco Meraki MX68CW, 7-year Advanced Security Licence and Support |
| | LIC MX68CW SDW 1Y LIC MX68CW SDW 3Y LIC MX68CW SDW 5Y LIC MX68CW SDW 7Y | Cisco Meraki MX68CW, 1-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX68CW, 3-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX68CW, 5-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX68CW, 7-year Secure SD-WAN Plus Licence and Support |

Hardware and licence SKU list

| Model | Licence | Description |
|----------|--|---|
| MX75 HW | LIC MX75 ENT 1Y LIC MX75 ENT 3Y LIC MX75 ENT 5Y | Cisco Meraki MX75, 1-year Enterprise Licence and Support Cisco Meraki MX75, 3-year Enterprise Licence and Support Cisco Meraki MX75, 5-year Enterprise Licence and Support |
| | LIC MX75 SEC 1Y LIC MX75 SEC 3Y LIC MX75 SEC 5Y | Cisco Meraki MX75, 1-year Advanced Security Licence and Support Cisco Meraki MX75, 3-year Advanced Security Licence and Support Cisco Meraki MX75, 5-year Advanced Security Licence and Support |
| | LIC MX75 SDW 1Y LIC MX75 SDW 3Y LIC MX75 SDW 5Y | Cisco Meraki MX75, 1-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX75, 3-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX75, 5-year Secure SD-WAN Plus Licence and Support |
| MX85 HW | LIC MX85 ENT 1Y LIC MX85 ENT 3Y LIC MX85 ENT 5Y | Cisco Meraki MX85, 1-year Enterprise Licence and Support Cisco Meraki MX85, 3-year Enterprise Licence and Support Cisco Meraki MX85, 5-year Enterprise Licence and Support |
| | LIC MX85 SEC 1Y LIC MX85 SEC 3Y LIC MX85 SEC 5Y | Cisco Meraki MX85, 1-year Advanced Security Licence and Support Cisco Meraki MX85, 3-year Advanced Security Licence and Support Cisco Meraki MX85, 5-year Advanced Security Licence and Support |
| | LIC MX85 SDW 1Y LIC MX85 SDW 3Y LIC MX85 SDW 5Y | Cisco Meraki MX85, 1-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX85, 3-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX85, 5-year Secure SD-WAN Plus Licence and Support |
| MX95 HW | LIC MX95 ENT 1Y LIC MX95 ENT 3Y LIC MX95 ENT 5Y | Cisco Meraki MX95, 1-year Enterprise Licence and Support Cisco Meraki MX95, 3-year Enterprise Licence and Support Cisco Meraki MX95, 5-year Enterprise Licence and Support |
| | LIC MX95 SEC 1Y LIC MX95 SEC 3Y LIC MX95 SEC 5Y | Cisco Meraki MX95, 1-year Advanced Security Licence and Support Cisco Meraki MX95, 3-year Advanced Security Licence and Support Cisco Meraki MX95, 5-year Advanced Security Licence and Support |
| | LIC MX95 SDW 1Y LIC MX95 SDW 3Y LIC MX95 SDW 5Y | Cisco Meraki MX95, 1-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX95, 3-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX95, 5-year Secure SD-WAN Plus Licence and Support |
| MX105 HW | LIC MX105 ENT 1Y LIC MX105 ENT 3Y LIC MX105 ENT 5Y | Cisco Meraki MX105, 1-year Enterprise Licence and Support Cisco Meraki MX105, 3-year Enterprise Licence and Support Cisco Meraki MX105, 5-year Enterprise Licence and Support |
| | LIC MX105 SEC 1Y LIC MX105 SEC 3Y LIC MX105 SEC 5Y | Cisco Meraki MX105, 1-year Advanced Security Licence and Support Cisco Meraki MX105, 3-year Advanced Security Licence and Support Cisco Meraki MX105, 5-year Advanced Security Licence and Support |
| | LIC MX105 SDW 1Y LIC MX105 SDW 3Y LIC MX105 SDW 5Y | Cisco Meraki MX105, 1-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX105, 3-year Secure SD-WAN Plus Licence and Support Cisco Meraki MX105, 5-year Secure SD-WAN Plus Licence and Support |

Hardware and licence SKU list

| Model | Licence | Description |
|----------|------------------|---|
| MX250 HW | LIC MX250 ENT 1Y | Cisco Meraki MX250, 1-year Enterprise Licence and Support |
| | LIC MX250 ENT 3Y | Cisco Meraki MX250, 3-year Enterprise Licence and Support |
| | LIC MX250 ENT 5Y | Cisco Meraki MX250, 5-year Enterprise Licence and Support |
| | LIC MX250 ENT 7Y | Cisco Meraki MX250, 7-year Enterprise Licence and Support |
| | LIC MX250 SEC 1Y | Cisco Meraki MX250, 1-year Advanced Security Licence and Support |
| | LIC MX250 SEC 3Y | Cisco Meraki MX250, 3-year Advanced Security Licence and Support |
| | LIC MX250 SEC 5Y | Cisco Meraki MX250, 5-year Advanced Security Licence and Support |
| | LIC MX250 SEC 7Y | Cisco Meraki MX250, 7-year Advanced Security Licence and Support |
| | LIC MX250 SDW 1Y | Cisco Meraki MX250, 1-year Secure SD-WAN Plus Licence and Support |
| | LIC MX250 SDW 3Y | Cisco Meraki MX250, 3-year Secure SD-WAN Plus Licence and Support |
| | LIC MX250 SDW 5Y | Cisco Meraki MX250, 5-year Secure SD-WAN Plus Licence and Support |
| | LIC MX250 SDW 7Y | Cisco Meraki MX250, 7-year Secure SD-WAN Plus Licence and Support |
| MX450 HW | LIC MX450 ENT 1Y | Cisco Meraki MX450, 1-year Enterprise Licence and Support |
| | LIC MX450 ENT 3Y | Cisco Meraki MX450, 3-year Enterprise Licence and Support |
| | LIC MX450 ENT 5Y | Cisco Meraki MX450, 5-year Enterprise Licence and Support |
| | LIC MX450 ENT 7Y | Cisco Meraki MX450, 7-year Enterprise Licence and Support |
| | LIC MX450 SEC 1Y | Cisco Meraki MX450, 1-year Advanced Security Licence and Support |
| | LIC MX450 SEC 3Y | Cisco Meraki MX450, 3-year Advanced Security Licence and Support |
| | LIC MX450 SEC 5Y | Cisco Meraki MX450, 5-year Advanced Security Licence and Support |
| | LIC MX450 SEC 7Y | Cisco Meraki MX450, 7-year Advanced Security Licence and Support |
| | LIC MX450 SDW 1Y | Cisco Meraki MX450, 1-year Secure SD-WAN Plus Licence and Support |
| | LIC MX450 SDW 3Y | Cisco Meraki MX450, 3-year Secure SD-WAN Plus Licence and Support |
| | LIC MX450 SDW 5Y | Cisco Meraki MX450, 5-year Secure SD-WAN Plus Licence and Support |
| | LIC MX450 SDW 7Y | Cisco Meraki MX450, 7-year Secure SD-WAN Plus Licence and Support |

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| vMX | LIC VMX S ENT 1Y LIC VMX S ENT 3Y LIC VMX S ENT 5Y | Cisco Meraki Small vMX, 1-year Licence and Support Cisco Meraki Small vMX, 3-year Licence and Support Cisco Meraki Small vMX, 5-year Licence and Support |
| | LIC VMX S SEC 1Y LIC VMX S SEC 3Y LIC VMX S SEC 5Y | Cisco Meraki Small vMX Advanced Security, 1-year Licence and Support Cisco Meraki Small vMX Advanced Security, 3-year Licence and Support Cisco Meraki Small vMX Advanced Security, 5-year Licence and Support |
| | LIC VMX M ENT 1Y LIC VMX M ENT 3Y LIC VMX M ENT 5Y | Cisco Meraki Medium vMX, 1-year Licence and Support Cisco Meraki Medium vMX, 3-year Licence and Support Cisco Meraki Medium vMX, 5-year Licence and Support |
| | LIC VMX M SEC 1Y LIC VMX M SEC 3Y LIC VMX M SEC 5Y | Cisco Meraki Medium vMX Advanced Security, 1-year Licence and Support Cisco Meraki Medium vMX Advanced Security, 3-year Licence and Support Cisco Meraki Medium vMX Advanced Security, 5-year Licence and Support |
| | LIC VMX L ENT 1Y LIC VMX L ENT 3Y LIC VMX L ENT 5Y | Cisco Meraki Large vMX, 1-year Licence and Support Cisco Meraki Large vMX, 3-year Licence and Support Cisco Meraki Large vMX, 5-year Licence and Support |
| | LIC VMX L SEC 1Y LIC VMX L SEC 3Y LIC VMX L SEC 5Y | Cisco Meraki vMX Large Advanced Security, 1-year Licence and Support Cisco Meraki vMX Large Advanced Security, 3-year Licence and Support Cisco Meraki vMX Large Advanced Security, 5-year Licence and Support |

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