

MX

Cloud-Managed Security and SD-WAN



Overview

The Cisco Meraki MX are multifunctional security and SD-WAN enterprise appliances 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 multi-cloud 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 is 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 be easily extended to deliver optimized access to resources in public and private cloud environments with virtual MX appliances (vMX). Public clouds supported with vMX include Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform, and Alibaba Cloud and private cloud support through Cisco NFVIS.

Advanced quality of experience (QoE) analytics

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

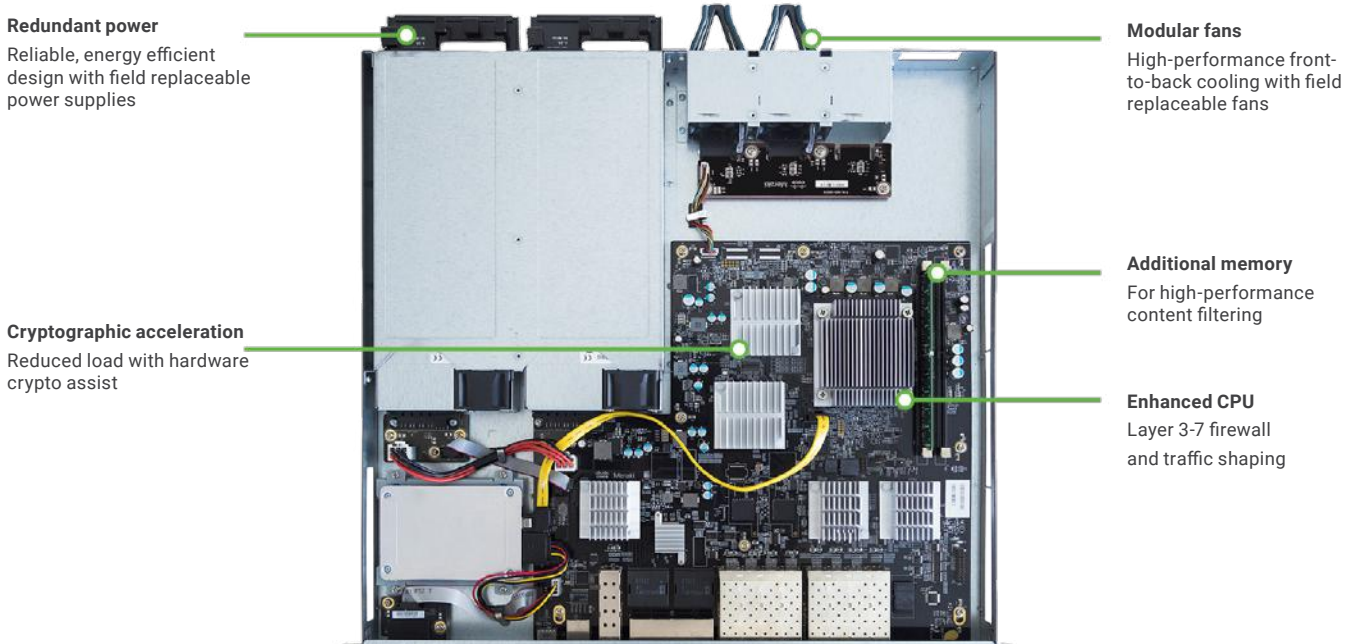
- Unified firewall, switching, wireless LAN, and mobile device management through an intuitive web-based dashboard
- Template-based settings scale easily from small deployments to tens of thousands of devices
- Role-based administration, configurable email alerts for a variety of important events, and easily auditable change logs
- Summary reports with user, device, and application usage details archived in the cloud

Intelligent site-to-site VPN with Cisco SD-WAN powered by Meraki

- 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 prioritization of applications types that matter
- Interoperates with all IPsec VPN devices and services
- Automated MPLS to VPN failover within seconds of a connection failure
- L2TP 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 license required)

Inside the Meraki MX

MX450 shown, features vary by model



Front of the Cisco Meraki MX

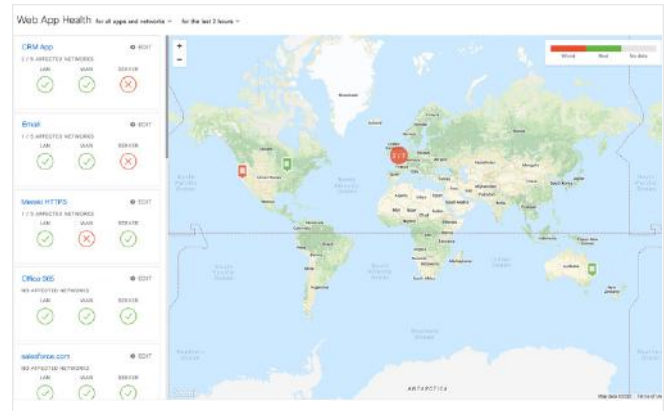
MX450 shown, features vary by model



- Multicolor status LED**
Monitor device status
- 3G/4G modem support**
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

Secure Cisco SD-WAN powered by Meraki

Secure Cisco SD-WAN powered by Meraki is delivered by the MX appliances. SD-WAN powered by Meraki has helped thousands of organizations 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 ML to monitor and optimize quality of experience (QoE) for applications, regardless of where they might be hosted.

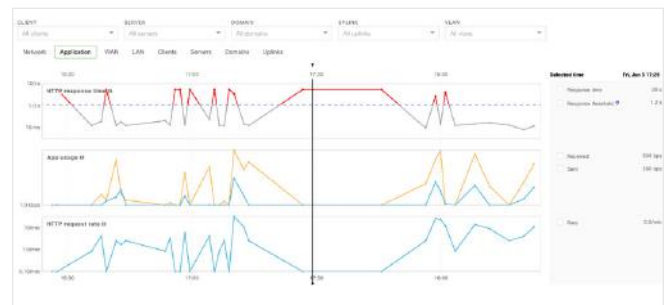
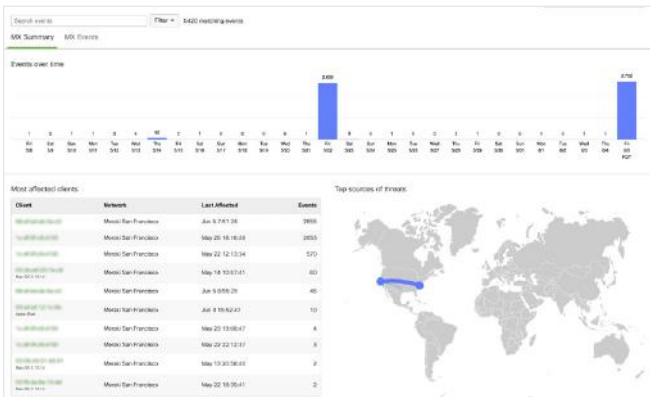


Transport independence

Leverage more than one uplink of any type with automatic failover—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.



Native security

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

SaaS quality of experience

Manual and performance-based path selection using advanced analytics.

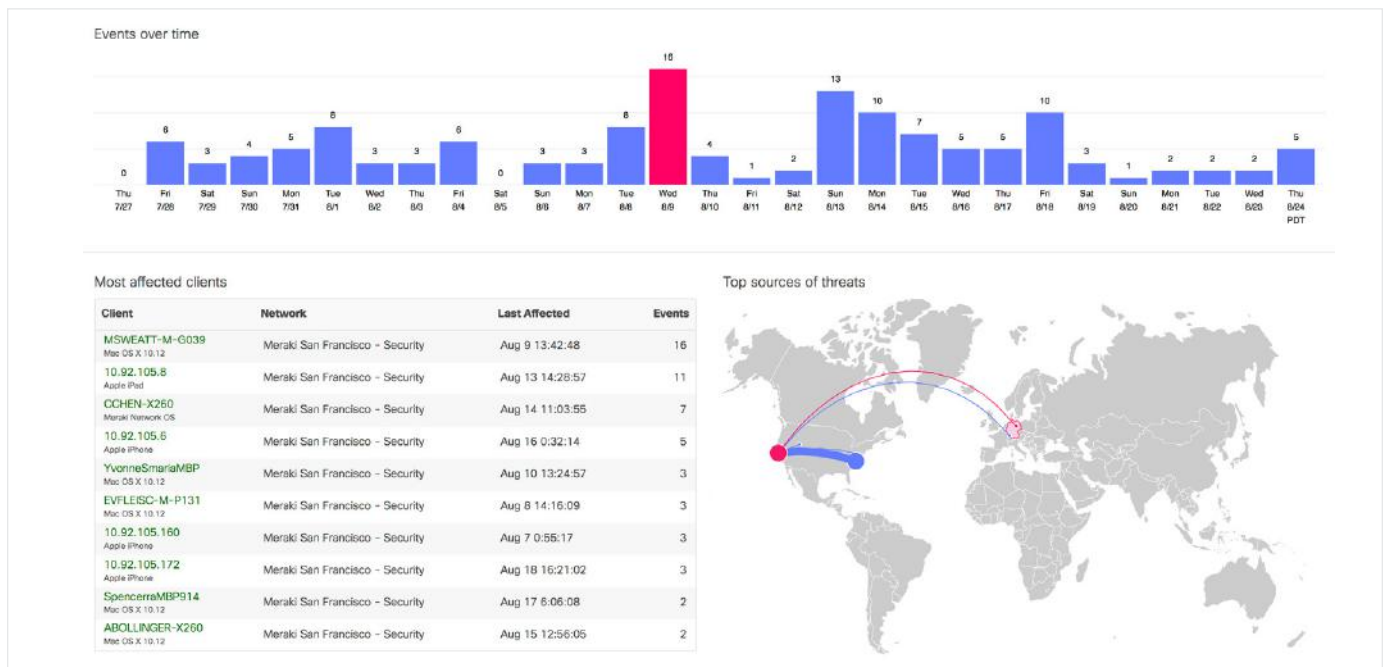
Ironclad security

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

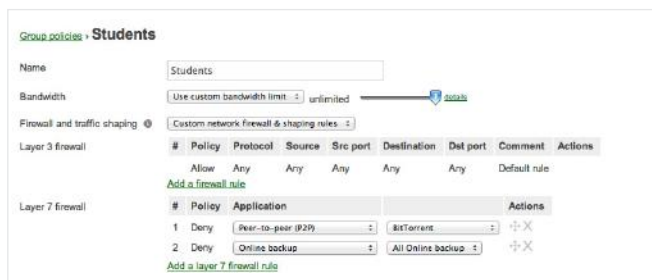
Layer 7 fingerprinting technology lets administrators identify unwanted content and applications, and prevents recreational apps like BitTorrent from wasting precious bandwidth.

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 categorization database for CIPA/IWF-compliant content filtering, Cisco Advanced Malware Protection (AMP) engine for anti-malware, AMP Threat Grid Cloud, and MaxMind for geo-IP-based security rules.

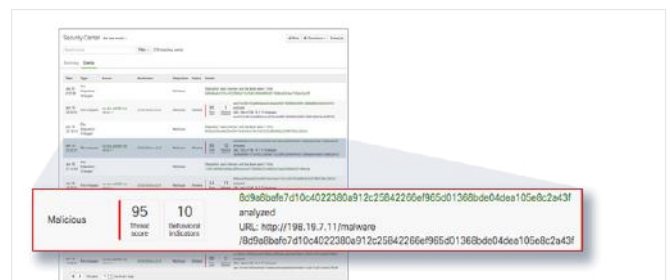
Best of all, these industry-leading layer 7 security engines and signatures are always kept up-to-date via the cloud, simplifying network security management and providing peace of mind to IT administrators.



Organization-level threat assessment with Meraki Security Center



Identity-based policy management



Cisco Threat Grid Cloud for malicious file sandboxing

LTE Advanced

While all MX models feature a USB port for 3G/4G failover, 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 x CAT 6, 300 Mbps LTE modem
- 1 x Nano SIM slot (4ff form factor)
- Global coverage with individual orderable SKUs for North America and worldwide



MX67C SIM slot

Power over Ethernet

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 x 802.3at (PoE+) ports capable of providing a total of 60W
- APs, 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

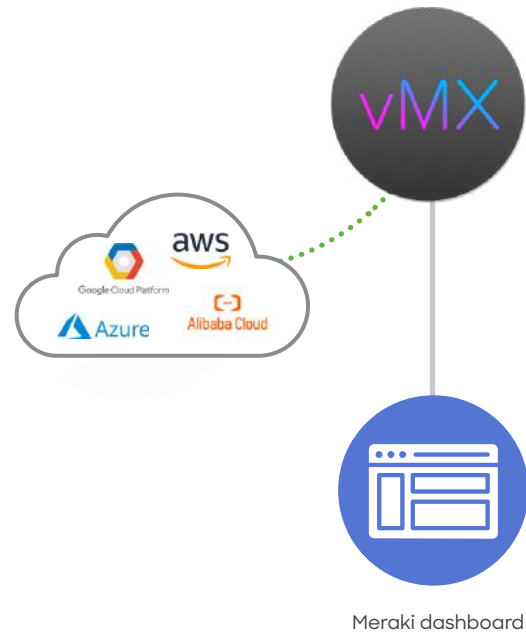
Meraki virtual MX appliances for public and private clouds

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 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 Auto VPN
- Extend SD-WAN to public cloud environments for optimized access to business-critical resources
- Only a Meraki license is required
- Available in three VPN throughput-based sizes to suit a wide range of use cases: small, medium, large
- Support for private cloud environments through Cisco NFVIS

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 and, for private cloud environments, a vMX can be spun up on a Cisco UCS running NFVIS. Setup and management in the Meraki dashboard, just like any other MX.



¹ Targeted 2HCY 2021

Desktop and all-in-one models




	MX64 	MX64W 
Recommended use case	Small branch with up to 50 users	
Stateful firewall throughput	250 Mbps	250 Mbps
Advanced security throughput	200 Mbps	200 Mbps
Maximum site-to-site VPN throughput	100 Mbps	100 Mbps
Maximum site-to-site VPN tunnels³	50	50
WAN interfaces (dedicated)	1 x GbE RJ45 1 x USB (cellular failover ¹)	1 x GbE RJ45 1 x USB (cellular failover ¹)
Dual-purpose	1 x GbE RJ45	1 x GbE RJ45
LAN interfaces (fixed)	4 x GbE RJ45	4 x GbE RJ45
Mounting	Desktop or wall mount	Desktop or wall mount
Dimensions (w x d x h)	9.5" x 5.2" x 1" (239 mm x 132 mm x 25 mm)	9.5" x 5.2" x 1" (239 mm x 132 mm x 25 mm)
Weight	1.61 lb (0.7 kg)	3.04 lb (1.4 kg)
Power supply	30W DC (included)	30W DC (included)
Power load (idle/max)	4W / 10W	6W / 13W
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%

¹Requires separate cellular modem

²Interface configurable for WAN or LAN use

³The 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, visit [MX Sizing Principles](#).

Desktop and all-in-one models





	MX67	MX67W	MX67C
			
Recommended use case	Small branch with up to 50 users		
Stateful firewall throughput	600 Mbps	600 Mbps	600 Mbps
Advanced security throughput	300 Mbps	300 Mbps	300 Mbps
Maximum site-to-site VPN throughput	300 Mbps	300 Mbps	300 Mbps
Maximum site-to-site VPN tunnels³	50	50	50
WAN interfaces (dedicated)	1 x GbE RJ45 1 x USB (cellular failover ¹)	1 x GbE RJ45 1 x USB (cellular failover ¹)	1 x GbE RJ45 1 x USB (cellular failover ¹) 1 x integrated CAT 6 LTE cellular modem (cellular failover)
Dual-purpose²	1 x GbE RJ45	1 x GbE RJ45	1 x GbE RJ45
LAN interfaces (fixed)	4 x GbE RJ45	4 x GbE RJ45	4 x GbE RJ45
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" (239 mm x 130 mm x 27 mm)	9.4" x 6.5" x 1.1" (239 mm x 164 mm x 27 mm)	9.4" x 6.9" x 1.1" (239 mm x 176 mm x 27 mm)
Weight	1.74 lb (0.7kg)	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
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%

¹Requires separate cellular modem

²Interface configurable for WAN or LAN use

³The 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, visit [MX Sizing Principles](#).

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
Stateful firewall throughput	600 Mbps	600 Mbps	600 Mbps	1 Gbps
Advanced security throughput	300 Mbps	300 Mbps	300 Mbps	750 Mbps
Maximum site-to-site VPN throughput	300 Mbps	300 Mbps	300 Mbps	500 Mbps
Maximum site-to-site VPN tunnels³	50	50	50	75
WAN interfaces (dedicated)	2 x GbE RJ45 1 x USB (cellular failover ¹)	2 x GbE RJ45 1 x USB (cellular failover ¹)	2 x GbE RJ45 1 x USB (cellular failover ¹) 1 x Integrated CAT 6 LTE Cellular Modem (cellular failover)	1 x GbE SFP 2x GbE RJ45 (cellular failover ¹)
Dual-purpose²	-	-	-	-
LAN interfaces (fixed)	10 x GbE RJ45 (2 x PoE+)	10 x GbE RJ45 (2 x PoE+)	10 x GbE RJ45 (2 x PoE+)	10x GbE RJ45 (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" (284 mm x 148 mm x 27 mm)	11.2" x 6.8" x 1.1" (284 mm x 172 mm x 27 mm)	11.2" x 7" x 1.1" (284 mm x 178 mm x 27 mm)	11.14" x 5.83" x 1.06" (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	100W DC	100W DC	100W DC	100W DC
Power load (idle/max)	11W / 79W	19W / 87W	19W / 89W	12W/96W
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%

¹Requires separate cellular modem

²Interface configurable for WAN or LAN use

³The 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, visit [MX Sizing Principles](#).

Rack mount models





	MX84 	MX85 	MX95 
Recommended use cases	Small to medium branch with up to 200 users	Small to medium branch with up to 250 users	Medium to large branch with up to 500 users
Stateful firewall throughput	500 Mbps	1 Gbps	2 Gbps
Advanced security throughput	320 Mbps	750 Mbps	1 Gbps
Maximum site-to-site VPN throughput	250 Mbps	500 Mbps	800 Mbps
Maximum site-to-site VPN tunnels³	100	200	500
WAN interfaces (dedicated)	2 x GbE RJ45 1 x USB (cellular failover ¹)	2x GbE SFP 2x GbE RJ45 (1x PoE+)	2x 10GbE SFP+ 2x 2.5GbE RJ45 (1x PoE+) 1x USB (cellular failover ¹)
Dual-purpose²	-	1x USB (cellular failover ¹)	-
LAN interfaces (fixed)	8 x GbE 2 x GbE (SFP)	8x GbE RJ45 2x GbE SFP	4x GbE RJ45 2x 10GbE SFP+
Mounting	1U rack	1U rack	1U rack
Dimensions (w x d x h)	19" x 10" x 1.75" (483 mm x 254 mm x 44 mm)	19" x 9.8" x 1.7" (484.6 mm x 250 mm x 43.8 mm)	19.08" x 11.23" x 1.73" (484.6 mm x 285.2 mm x 44 mm)
Weight	9 lb (4.1kg)	8.2 lb (3.7 kg)	6.99 lbs (3.17 kg)
Power supply	Internal 100-220V 50/60Hz AC	Internal 100-127VAC, 200-240VAC (50/60Hz)	Internal 100-127VAC, 200-240VAC (50/60Hz)
Power load (idle/max)	26W / 32W	12W / 55W	42W/109W
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%

¹Requires separate cellular modem

²Interface configurable for WAN or LAN use

³The 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, visit [MX Sizing Principles](#).

Rack mount models

	 MX100	 MX105	 MX250	 MX450
Recommended use case	Medium to large branch with up to 500 users	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
Stateful firewall throughput	750 Mbps	3 Gbps	4 Gbps	6 Gbps
Advanced security throughput	650 Mbps	1.5 Gbps	2 Gbps	4 Gbps
Maximum site-to-site VPN throughput	500 Mbps	1 Gbps	1 Gbps	2 Gbps
Maximum site-to-site VPN tunnels³	250	1,000	3,000	5,000
WAN interfaces (dedicated)	1 x GbE RJ45 1 x USB (cellular failover ¹)	2x 10GbE SFP+ 2x 2.5GbE RJ45 (1x PoE+) 1x USB (cellular failover ¹)	2 x 10GbE SFP+ 1 x USB (cellular failover ¹)	2 x 10GbE SFP+ 1 x USB (cellular failover ¹)
Dual-purpose²	1 x GbE RJ45	-	-	-
LAN interfaces (fixed)	8 x GbE 2 x GbE (SFP)	4x GbE RJ45 2x 10GbE SFP+	8 x GbE (RJ45) 8 x GbE (SFP) 8 x 10GbE (SFP+)	8 x GbE (RJ45) 8 x GbE (SFP) 8 x 10GbE (SFP+)
Mounting	1U rack	1U rack	1U rack	1U rack
Dimensions (w x d x h)	19" x 10" x 1.75" (483 mm x 254 mm x 44 mm)	19.08" x 12.4" x 1.73" (484.6 mm x 315 mm x 44 mm)	19" x 17.3" x 1.75" (483 mm x 440 mm x 44 mm)	19" x 17.3" x 1.75" (483 mm x 440 mm x 44 mm)
Weight	9 lb (4.1kg)	10.74 lbs (4.87 kg) (with 2 Fans and 2 PSUs)	16 lb (7.3kg)	16 lb (7.3kg)
Power supply	Internal 100-220V 50/60Hz AC	Modular 100-127VAC 200-240VAC (50/60Hz) 2 x 150WAC PSU	Modular 100-220V 50/60Hz AC 2 x 250WAC PSU	Modular 100-220V 50/60Hz AC 2 x 250WAC PSU
Power load (idle/max)	30W / 55W	53W/123W	105W/190W	105W/190W
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)	32°F to 104°F (0°C to 40°C)
Humidity	5% to 95%	5% to 95%	5% to 95%	5% to 95%

¹Requires separate cellular modem

²Interface configurable for WAN or LAN use

³The 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, visit [MX Sizing Principles](#).

Virtual appliance models

	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 Platform ¹ Alibaba Cloud Cisco NFVIS	AWS Azure Google Cloud Platform ¹ Alibaba Cloud Cisco NFVIS	AWS Google Cloud Platform ¹ Alibaba Cloud Cisco NFVIS
Maximum site-to-site VPN Throughput	200 Mbps	500 Mbps	1 Gbps
Maximum Concurrent site-to-site VPN Tunnels	50	250	1,000
Client VPN Support	Yes	Yes	Yes

¹ Targeted 2HCY 2021

Included in the box

Package contents	Model(s)
Mounting kit	MX64, MX64W, MX67, MX67W, MX67C, MX68, MX68W, MX68CW, MX84, MX100, MX250, MX450
Cat 5 Ethernet cable (2)	MX64, MX64W, MX67, MX67W, MX67C, MX68, MX68W, MX68CW, MX84, MX100
AC power adapter	MX64, MX64W, MX67, MX67W, MX67C, MX68, MX68W, MX68CW, MX75
Wireless external omni antenna (2)	MX64W, 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

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

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

Licensing

Given the range of use cases that can be solved, there are three options for the MX appliance that give customers the flexibility to select the license most appropriate for their intended use.

The licensing structure for MX appliances is the same as that of any other Meraki device—1:1 ratio of devices to licenses. Pair your chosen MX appliance(s) with the relevant license for your use case.

 <p>Enterprise</p> <hr/> <p>Essential SD-WAN features:</p> <p>Secure connectivity and basic security</p> <hr/> <p>Ideal for when only seamless site-to-site VPN connectivity with a firewall is needed.</p>	 <p>Advanced Security</p> <hr/> <p>All enterprise features plus:</p> <p>Fully featured unified threat management</p> <hr/> <p>Ideal for organizations with sites also connecting to the internet so unified threat management security is required.</p>	 <p>Secure SD-WAN Plus</p> <hr/> <p>All advanced security features plus:</p> <p>Advanced analytics with ML Smart, SaaS quality of experience, and tag-based segmentation</p> <hr/> <p>Ideal for organizations reliant on apps served by SaaS, IaaS, or data center locations.</p>
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Accessories

The Cisco Meraki MX84, MX100, MX250, and MX450 models support pluggable optics for high-speed backbone connections between wiring closets or to aggregation switches. Cisco 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 Fiber Module (1000BASE-SX, range: 550 m) for MX75, MX84, MX85, MX95, MX100, MX105, MX250, MX450
MA-SFP-1GB-TX	Cisco Meraki 1 GbE RJ45 Copper Module (1000BASE-T for twisted pair) for MX75, MX84, MX85, MX95, MX100, 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 MX64, MX64W, MX67, MX67W, MX67C
MA-PWR-100WAC	Replacement Power Adapter (100W) for MX68, MX68W, MX68CW, 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 MX64W, 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-UK
 MA-PWR-CORD-AU



MX specifications

Management

- Managed via the web using the Cisco Meraki dashboard
- Single pane of glass into managing wired and wireless networks
- Zero-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

Remote diagnostics

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

Network and firewall services

- Stateful firewall, 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 services¹

Content filtering (Webroot BrightCloud CIPA-compliant URL database)

Web-search filtering (including Google/Bing SafeSearch)

YouTube for Schools

Intrusion-prevention sensor (Cisco SNORT®-based)

Advanced Malware Protection (AMP)

AMP Threat Grid²

¹Advanced security services require Advanced Security license

²Threat Grid services require additional sample pack licensing

Integrated wireless (MX64W, MX67W, MX68W, MX68CW)

1 x 802.11a/n/ac (5 GHz) radio

1 x 802.11b/g/n (2.4 GHz) radio

Max data rate 1.2 Gbps aggregate (MX64W), 1.3 Gbps aggregate (MX67W, MX68W, MX68CW)

2 x 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 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)

2 x PoE+ (802.3at) LAN 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.

Ordering guide

To place an order for an MX appliance, pair a specific hardware model with a single license (which includes cloud services, software upgrades, and support). For example, to order an MX64 with a three-year Advanced Security license, order an MX64-HW with LIC-MX64-SEC-3Y. Lifetime warranty with advanced replacement is included on all hardware at no additional cost.

Model	License	Description
MX64-HW	LIC-MX64-ENT-1Y LIC-MX64-ENT-3Y LIC-MX64-ENT-5Y LIC-MX64-ENT-7Y	Cisco Meraki MX64, 1-year Enterprise License and Support Cisco Meraki MX64, 3-year Enterprise License and Support Cisco Meraki MX64, 5-year Enterprise License and Support Cisco Meraki MX64, 7-year Enterprise License and Support
	LIC-MX64-SEC-1Y LIC-MX64-SEC-3Y LIC-MX64-SEC-5Y LIC-MX64-SEC-7Y	Cisco Meraki MX64, 1-year Advanced Security License and Support Cisco Meraki MX64, 3-year Advanced Security License and Support Cisco Meraki MX64, 5-year Advanced Security License and Support Cisco Meraki MX64, 7-year Advanced Security License and Support
	LIC-MX64-SDW-1Y LIC-MX64-SDW-3Y LIC-MX64-SDW-5Y LIC-MX64-SDW-7Y	Cisco Meraki MX64, 1-year Secure SD-WAN Plus License and Support Cisco Meraki MX64, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX64, 5-year Secure SD-WAN Plus License and Support Cisco Meraki MX64, 7-year Secure SD-WAN Plus License and Support
MX64W-HW	LIC-MX64W-ENT-1Y LIC-MX64W-ENT-3Y LIC-MX64W-ENT-5Y LIC-MX64W-ENT-7Y	Cisco Meraki MX64W, 1-year Enterprise License and Support Cisco Meraki MX64W, 3-year Enterprise License and Support Cisco Meraki MX64W, 5-year Enterprise License and Support Cisco Meraki MX64W, 7-year Enterprise License and Support
	LIC-MX64W-SEC-1Y LIC-MX64W-SEC-3Y LIC-MX64W-SEC-5Y LIC-MX64W-SEC-7Y	Cisco Meraki MX64W, 1-year Advanced Security License and Support Cisco Meraki MX64W, 3-year Advanced Security License and Support Cisco Meraki MX64W, 5-year Advanced Security License and Support Cisco Meraki MX64W, 7-year Advanced Security License and Support
	LIC-MX64W-SDW-1Y LIC-MX64W-SDW-3Y LIC-MX64W-SDW-5Y LIC-MX64W-SDW-7Y	Cisco Meraki MX64W, 1-year Secure SD-WAN Plus License and Support Cisco Meraki MX64W, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX64W, 5-year Secure SD-WAN Plus License and Support Cisco Meraki MX64W, 7-year Secure SD-WAN Plus License and Support
MX67-HW	LIC-MX67-ENT-1Y LIC-MX67-ENT-3Y LIC-MX67-ENT-5Y LIC-MX67-ENT-7Y	Cisco Meraki MX67, 1-year Enterprise License and Support Cisco Meraki MX67, 3-year Enterprise License and Support Cisco Meraki MX67, 5-year Enterprise License and Support Cisco Meraki MX67, 7-year Enterprise License 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 License and Support Cisco Meraki MX67, 3-year Advanced Security License and Support Cisco Meraki MX67, 5-year Advanced Security License and Support Cisco Meraki MX67, 7-year Advanced Security License 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 License and Support Cisco Meraki MX67, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX67, 5-year Secure SD-WAN Plus License and Support Cisco Meraki MX67, 7-year Secure SD-WAN Plus License and Support

Ordering guide

To place an order for an MX appliance, pair a specific hardware model with a single license (which includes cloud services, software upgrades, and support). For example, to order an MX64 with a three-year Advanced Security license, order an MX64-HW with LIC-MX64-SEC-3Y. Lifetime warranty with advanced replacement is included on all hardware at no additional cost.

Model	License	Description
MX67W-HW	LIC-MX67W-ENT-1Y LIC-MX67W-ENT-3Y LIC-MX67W-ENT-5Y LIC-MX67W-ENT-7Y	Cisco Meraki MX67W, 1-year Enterprise License and Support Cisco Meraki MX67W, 3-year Enterprise License and Support Cisco Meraki MX67W, 5-year Enterprise License and Support Cisco Meraki MX67W, 7-year Enterprise License 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 License and Support Cisco Meraki MX67W, 3-year Advanced Security License and Support Cisco Meraki MX67W, 5-year Advanced Security License and Support Cisco Meraki MX67W, 7-year Advanced Security License 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 License and Support Cisco Meraki MX67W, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX67W, 5-year Secure SD-WAN Plus License and Support Cisco Meraki MX67W, 7-year Secure SD-WAN Plus License 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 License and Support Cisco Meraki MX67C, 3-year Enterprise License and Support Cisco Meraki MX67C, 5-year Enterprise License and Support Cisco Meraki MX67C, 7-year Enterprise License 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 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 LIC-MX67C-SDW-3Y LIC-MX67C-SDW-5Y LIC-MX67C-SDW-7Y	Cisco Meraki MX67C, 1-year Secure SD-WAN Plus License and Support Cisco Meraki MX67C, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX67C, 5-year Secure SD-WAN Plus License and Support Cisco Meraki MX67C, 7-year Secure SD-WAN Plus License and Support
MX68-HW	LIC-MX68-ENT-1Y LIC-MX68-ENT-3Y LIC-MX68-ENT-5Y LIC-MX68-ENT-7Y	Cisco Meraki MX68, 1-year Enterprise License and Support Cisco Meraki MX68, 3-year Enterprise License and Support Cisco Meraki MX68, 5-year Enterprise License and Support Cisco Meraki MX68, 7-year Enterprise License 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 License and Support Cisco Meraki MX68, 3-year Advanced Security License and Support Cisco Meraki MX68, 5-year Advanced Security License and Support Cisco Meraki MX68, 7-year Advanced Security License 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 License and Support Cisco Meraki MX68, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX68, 5-year Secure SD-WAN Plus License and Support Cisco Meraki MX68, 7-year Secure SD-WAN Plus License and Support

Ordering guide

To place an order for an MX appliance, pair a specific hardware model with a single license (which includes cloud services, software upgrades, and support). For example, to order an MX64 with a three-year Advanced Security license, order an MX64-HW with LIC-MX64-SEC-3Y. Lifetime warranty with advanced replacement is included on all hardware at no additional cost.

Model	License	Description
MX68W-HW	LIC-MX68W-ENT-1Y LIC-MX68W-ENT-3Y LIC-MX68W-ENT-5Y LIC-MX68W-ENT-7Y	Cisco Meraki MX68W, 1-year Enterprise License and Support Cisco Meraki MX68W, 3-year Enterprise License and Support Cisco Meraki MX68W, 5-year Enterprise License and Support Cisco Meraki MX68W, 7-year Enterprise License 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 License and Support Cisco Meraki MX68W, 3-year Advanced Security License and Support Cisco Meraki MX68W, 5-year Advanced Security License and Support Cisco Meraki MX68W, 7-year Advanced Security License 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 License and Support Cisco Meraki MX68W, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX68W, 5-year Secure SD-WAN Plus License and Support Cisco Meraki MX68W, 7-year Secure SD-WAN Plus License 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 License and Support Cisco Meraki MX68CW, 3-year Enterprise License and Support Cisco Meraki MX68CW, 5-year Enterprise License and Support Cisco Meraki MX68CW, 7-year Enterprise License 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 License and Support Cisco Meraki MX68CW, 3-year Advanced Security License and Support Cisco Meraki MX68CW, 5-year Advanced Security License and Support Cisco Meraki MX68CW, 7-year Advanced Security License 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 License and Support Cisco Meraki MX68CW, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX68CW, 5-year Secure SD-WAN Plus License and Support Cisco Meraki MX68CW, 7-year Secure SD-WAN Plus License and Support
MX75-HW	LIC-MX75-ENT-1Y LIC-MX75-ENT-3Y LIC-MX75-ENT-5Y LIC-MX75-ENT-7Y	Cisco Meraki MX75, 1-year Enterprise License and Support Cisco Meraki MX75, 3-year Enterprise License and Support Cisco Meraki MX75, 5-year Enterprise License and Support Cisco Meraki MX75, 7-year Enterprise License and Support
	LIC-MX75-SEC-1Y LIC-MX75-SEC-3Y LIC-MX75-SEC-5Y LIC-MX75-SEC-7Y	Cisco Meraki MX75, 1-year Advanced Security License and Support Cisco Meraki MX75, 3-year Advanced Security License and Support Cisco Meraki MX75, 5-year Advanced Security License and Support Cisco Meraki MX75, 7-year Advanced Security License and Support
	LIC-MX75-SDW-1Y LIC-MX75-SDW-3Y LIC-MX75-SDW-5Y LIC-MX75-SDW-7Y	Cisco Meraki MX75, 1-year Secure SD-WAN Plus License and Support Cisco Meraki MX75, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX75, 5-year Secure SD-WAN Plus License and Support Cisco Meraki MX75, 7-year Secure SD-WAN Plus License and Support

Ordering guide

To place an order for an MX appliance, pair a specific hardware model with a single license (which includes cloud services, software upgrades, and support). For example, to order an MX64 with a three-year Advanced Security license, order an MX64-HW with LIC-MX64-SEC-3Y. Lifetime warranty with advanced replacement is included on all hardware at no additional cost.

Model	License	Description
MX84-HW	LIC-MX84-ENT-1Y LIC-MX84-ENT-3Y LIC-MX84-ENT-5Y LIC-MX84-ENT-7Y	Cisco Meraki MX84, 1-year Enterprise License and Support Cisco Meraki MX84, 3-year Enterprise License and Support Cisco Meraki MX84, 5-year Enterprise License and Support Cisco Meraki MX84, 7-year Enterprise License and Support
	LIC-MX84-SEC-1Y LIC-MX84-SEC-3Y LIC-MX84-SEC-5Y LIC-MX84-SEC-7Y	Cisco Meraki MX84, 1-year Advanced Security License and Support Cisco Meraki MX84, 3-year Advanced Security License and Support Cisco Meraki MX84, 5-year Advanced Security License and Support Cisco Meraki MX84, 7-year Advanced Security License and Support
	LIC-MX84-SDW-1Y LIC-MX84-SDW-3Y LIC-MX84-SDW-5Y LIC-MX84-SDW-7Y	Cisco Meraki MX84, 1-year Secure SD-WAN Plus License and Support Cisco Meraki MX84, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX84, 5-year Secure SD-WAN Plus License and Support Cisco Meraki MX84, 7-year Secure SD-WAN Plus License and Support
MX85-HW	LIC-MX85-ENT-1Y LIC-MX85-ENT-3Y LIC-MX85-ENT-5Y LIC-MX85-ENT-7Y	Cisco Meraki MX85, 1-year Enterprise License and Support Cisco Meraki MX85, 3-year Enterprise License and Support Cisco Meraki MX85, 5-year Enterprise License and Support Cisco Meraki MX85, 7-year Enterprise License and Support
	LIC-MX85-SEC-1Y LIC-MX85-SEC-3Y LIC-MX85-SEC-5Y LIC-MX85-SEC-7Y	Cisco Meraki MX85, 1-year Advanced Security License and Support Cisco Meraki MX85, 3-year Advanced Security License and Support Cisco Meraki MX85, 5-year Advanced Security License and Support Cisco Meraki MX85, 5-year Advanced Security License and Support
	LIC-MX85-SDW-1Y LIC-MX85-SDW-3Y LIC-MX85-SDW-5Y LIC-MX85-SDW-7Y	Cisco Meraki MX85, 1-year Secure SD-WAN Plus License and Support Cisco Meraki MX85, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX85, 5-year Secure SD-WAN Plus License and Support Cisco Meraki MX85, 7-year Secure SD-WAN Plus License and Support
MX95-HW	LIC-MX95-ENT-1Y LIC-MX95-ENT-3Y LIC-MX95-ENT-5Y LIC-MX95-ENT-7Y	Cisco Meraki MX95, 1-year Enterprise License and Support Cisco Meraki MX95, 3-year Enterprise License and Support Cisco Meraki MX95, 5-year Enterprise License and Support Cisco Meraki MX95, 7-year Enterprise License and Support
	LIC-MX95-SEC-1Y LIC-MX95-SEC-3Y LIC-MX95-SEC-5Y LIC-MX95-SEC-7Y	Cisco Meraki MX95, 1-year Advanced Security License and Support Cisco Meraki MX95, 3-year Advanced Security License and Support Cisco Meraki MX95, 5-year Advanced Security License and Support Cisco Meraki MX95, 7-year Advanced Security License and Support
	LIC-MX95-SDW-1Y LIC-MX95-SDW-3Y LIC-MX95-SDW-5Y LIC-MX95-SDW-7Y	Cisco Meraki MX95, 1-year Secure SD-WAN Plus License and Support Cisco Meraki MX95, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX95, 5-year Secure SD-WAN Plus License and Support Cisco Meraki MX95, 7-year Secure SD-WAN Plus License and Support
MX100-HW	LIC-MX100-ENT-1Y LIC-MX100-ENT-3Y LIC-MX100-ENT-5Y	Cisco Meraki MX100, 1-year Enterprise License and Support Cisco Meraki MX100, 3-year Enterprise License and Support Cisco Meraki MX100, 5-year Enterprise License and Support
	LIC-MX100-SEC-1Y LIC-MX100-SEC-3Y LIC-MX100-SEC-5Y	Cisco Meraki MX100, 1-year Advanced Security License and Support Cisco Meraki MX100, 3-year Advanced Security License and Support Cisco Meraki MX100, 5-year Advanced Security License and Support
	LIC-MX100-SDW-1Y LIC-MX100-SDW-3Y LIC-MX100-SDW-5Y	Cisco Meraki MX100, 1-year Secure SD-WAN Plus License and Support Cisco Meraki MX100, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX100, 5-year Secure SD-WAN Plus License and Support

Ordering guide

To place an order for an MX appliance, pair a specific hardware model with a single license (which includes cloud services, software upgrades, and support). For example, to order an MX64 with a three-year Advanced Security license, order an MX64-HW with LIC-MX64-SEC-3Y. Lifetime warranty with advanced replacement is included on all hardware at no additional cost.

Model	License	Description
MX105-HW	LIC-MX105-ENT-1Y LIC-MX105-ENT-3Y LIC-MX105-ENT-5Y	Cisco Meraki MX105, 1-year Enterprise License and Support Cisco Meraki MX105, 3-year Enterprise License and Support Cisco Meraki MX105, 5-year Enterprise License and Support
	LIC-MX105-SEC-1Y LIC-MX105-SEC-3Y LIC-MX105-SEC-5Y	Cisco Meraki MX105, 1-year Advanced Security License and Support Cisco Meraki MX105, 3-year Advanced Security License and Support Cisco Meraki MX105, 5-year Advanced Security License and Support
	LIC-MX105-SDW-1Y LIC-MX105-SDW-3Y LIC-MX105-SDW-5Y	Cisco Meraki MX105, 1-year Secure SD-WAN Plus License and Support Cisco Meraki MX105, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX105, 5-year Secure SD-WAN Plus License and Support
MX250-HW	LIC-MX250-ENT-1Y LIC-MX250-ENT-3Y LIC-MX250-ENT-5Y LIC-MX250-ENT-7Y	Cisco Meraki MX250, 1-year Enterprise License and Support Cisco Meraki MX250, 3-year Enterprise License and Support Cisco Meraki MX250, 5-year Enterprise License and Support Cisco Meraki MX250, 7-year Enterprise License and Support
	LIC-MX250-SEC-1Y LIC-MX250-SEC-3Y LIC-MX250-SEC-5Y LIC-MX250-SEC-7Y	Cisco Meraki MX250, 1-year Advanced Security License and Support Cisco Meraki MX250, 3-year Advanced Security License and Support Cisco Meraki MX250, 5-year Advanced Security License and Support Cisco Meraki MX250, 7-year Advanced Security License and Support
	LIC-MX250-SDW-1Y LIC-MX250-SDW-3Y LIC-MX250-SDW-5Y LIC-MX250-SDW-7Y	Cisco Meraki MX250, 1-year Secure SD-WAN Plus License and Support Cisco Meraki MX250, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX250, 5-year Secure SD-WAN Plus License and Support Cisco Meraki MX250, 7-year Secure SD-WAN Plus License and Support
MX450-HW	LIC-MX450-ENT-1Y LIC-MX450-ENT-3Y LIC-MX450-ENT-5Y LIC-MX450-ENT-7Y	Cisco Meraki MX450, 1-year Enterprise License and Support Cisco Meraki MX450, 3-year Enterprise License and Support Cisco Meraki MX450, 5-year Enterprise License and Support Cisco Meraki MX450, 7-year Enterprise License and Support
	LIC-MX450-SEC-1Y LIC-MX450-SEC-3Y LIC-MX450-SEC-5Y LIC-MX450-SEC-7Y	Cisco Meraki MX450, 1-year Advanced Security License and Support Cisco Meraki MX450, 3-year Advanced Security License and Support Cisco Meraki MX450, 5-year Advanced Security License and Support Cisco Meraki MX450, 7-year Advanced Security License and Support
	LIC-MX450-SDW-1Y LIC-MX450-SDW-3Y LIC-MX450-SDW-5Y LIC-MX450-SDW-7Y	Cisco Meraki MX450, 1-year Secure SD-WAN Plus License and Support Cisco Meraki MX450, 3-year Secure SD-WAN Plus License and Support Cisco Meraki MX450, 5-year Secure SD-WAN Plus License and Support Cisco Meraki MX450, 7-year Secure SD-WAN Plus License and Support
vMX	LIC-VMX-S-ENT-1Y LIC-VMX-S-ENT-3Y LIC-VMX-S-ENT-5Y LIC-VMX-S-ENT-7Y	Cisco Meraki Small vMX, 1-year License and Support Cisco Meraki Small vMX, 3-year License and Support Cisco Meraki Small vMX, 5-year License and Support Cisco Meraki Small vMX, 7-year License and Support
	LIC-VMX-M-ENT-1Y LIC-VMX-M-ENT-3Y LIC-VMX-M-ENT-5Y LIC-VMX-M-ENT-7Y	Cisco Meraki Medium vMX, 1-year License and Support Cisco Meraki Medium vMX, 3-year License and Support Cisco Meraki Medium vMX, 5-year License and Support Cisco Meraki Medium vMX, 7-year License and Support
	LIC-VMX-L-ENT-1Y LIC-VMX-L-ENT-3Y LIC-VMX-L-ENT-5Y LIC-VMX-L-ENT-7Y	Cisco Meraki Large vMX, 1-year License and Support Cisco Meraki Large vMX, 3-year License and Support Cisco Meraki Large vMX, 5-year License and Support Cisco Meraki Large vMX, 7-year License and Support