MX Cloud Managed Security Appliance Series



Overview

Cisco Meraki MX Security Appliances are ideal for organizations with large numbers of distributed sites. Since the MX is 100% cloud managed, installation and remote management is simple. The MX has a comprehensive suite of network services, eliminating the need for multiple appliances. These services include SD-WAN, Layer 7 application firewall, content filtering, web search filtering, SNORT[®] based intrusion prevention, web caching, 4G failover. Auto VPN is available on physical hardware and on a virtual appliance configurable in Amazon Web Services.

FEATURE-RICH UNIFIED THREAT MANAGEMENT (UTM) CAPABILITIES

- Application-aware traffic control: bandwidth policies for Layer 7 application types (e.g., YouTube, Skype, P2P).
- Content filtering: CIPA-compliant content filter, safe-seach enforcement (Google/Bing), and YouTube for Schools.
- Intrusion prevention: PCI-compliant IPS sensor using industry-leading SNORT[®] signature database from Cisco Sourcefire.
- Anti-virus and anti-phishing: flow-based protection engine powered by Kaspersky.
- · Identity-based security policies and application management.

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 MERAKI SD-WAN

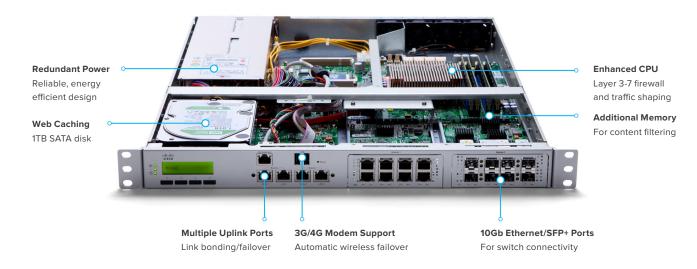
- Auto VPN: automatic vpn route generation using IKE/IPsec setup. Runs on physical MX appliances and as a virtual instance within the Amazon AWS cloud.
- SD-WAN with active / active VPN, policy-based-routing, and dynamic VPN path selection.
- Interoperates with standards-based IPsec VPNs.
- Automated MPLS to VPN failover.
- Client VPN: L2TP IPsec support for native Windows, Mac OS X, iPad and Android clients with no per-user licensing fees.

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 highspeed interface, with policies for QoS, traffic shaping, and failover.
- Smart connection monitoring: automatic detection of layer 2 and layer 3 outages and fast failover, including 3G/4G USB modems.

INSIDE THE CISCO MERAKI MX

MX400 shown, features vary by model



Cloud Managed Architecture

Built on Cisco Meraki's award-winning cloud architecture, the MX is the industry's only 100% cloud-managed solution for Unified Threat Management 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 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 an Amazon Web Services Virtual Private Cloud, enabling Auto VPN peering and SD-WAN for dynamic path selection.



Cisco Meraki Cloud Management Architecture

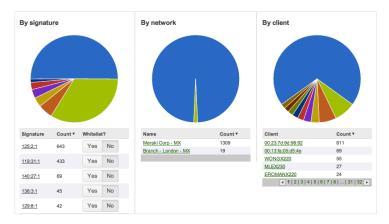
Ironclad Security

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

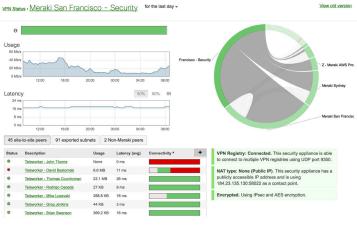
Layer 7 fingerprinting technology lets administrators identify unwanted content and applications and prevent recreational apps like BitTorrent from wasting precious bandwidth.

The integrated Sourcefire SNORT[®] engine delivers superior intrusion prevention coverage, a key requirement for PCI 3.0 compliance. The MX also uses the Webroot BrightCloud[®] URL categorization database for CIPA / IWF compliant content-filtering, Kaspersky Safestream II[®] engine for anti-virus / anti-phishing, 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

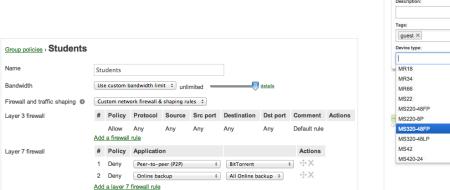


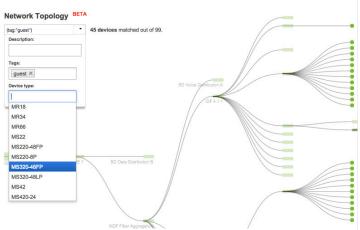
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Next Gen Application Firewall and Traffic Visibility

End-to-End Network Visibility and Troubleshooting

Auto Configuring Site-to-Site VPN





Identity Based Policy Management

SD-WAN Made Simple

Transport independence

Dual WAN ports with load balancing and failover enable the use of MPLS and/or redundant, commodity Internet connections, providing additional bandwidth and higher reliability.

3G / 4G failover

The Cisco Meraki MX supports 3G/4G service providers globally for WAN connection failover. Web caching temporarily stores video, media, and web documents, lowering bandwidth usage and accelerating the download speed of Internet content.

Application optimization

Layer 7 traffic shaping and application prioritization optimize the traffic for mission-critical applications and user experience.

Intelligent path control

The MX uses dynamic VPN path selection to choose the best VPN uplink based on packet loss, latency, and jitter. Define policies for sending the right traffic through the appropriate path (e.g., send voice via MPLS, http via VPN over broadband).

Secure connectivity

Cisco Meraki's unique auto provisioning site-to-site VPN (Auto VPN) connects sites, and optionally Amazon Web Services, securely with unmatched simplicity. MX Security Appliances automatically learn VPN parameters needed to establish and maintain VPN sessions using 128-bit AES encryption. A unique cloud-enabled discovery mechanism enables automatic interconnection of VPN peers and routes across the WAN, and keeps them updated in dynamic IP environments.

Integrated 802.11ac Wireless

The MX64W and MX65W integrate Cisco Meraki's award-winning wireless technology with the powerful MX network security features in a compact form factor ideal for branch offices or small enterprises.

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



MX65W Security Appliance

Built-in PoE+

The MX65 and MX65W 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.at (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.



Z1 Telecommuter Gateway

The Z1 Telecommuter Gateway extends the power of the Cisco Meraki dashboard and cloud-based centralized management to employees, IT staff and executives working from home.

Using the patented Cisco Meraki Auto VPN, administrators can extend network services including VoIP and remote desktop (RDP) to remote employees with a single-click, provide wired and wireless access, and increase end-user productivity through Layer 7 traffic shaping and prioritization.

- 1 x 802.11b/g/n radio, 1 x 802.11a/n radio, 2x2 MIMO with 2 spatial streams
- Site-to-site (IPsec) VPN using Cisco Meraki Auto VPN
- · Layer 7 application visibility and traffic shaping



Z1 Telecommuter Gateway

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 all software upgrades, centralized systems management, and phone support under a single, easy-to-understand model. For complete details, please visit meraki.cisco.com/support.

Rack mount models

	MX84	MX100	MX400	MX600
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Recommended use cases	Medium sized branch	Large branch	Campus / VPN concentrator	Campus / VPN concentrator
Recommended max users	200	500	2,000	10,000
Stateful Firewall Throughput	500 Mbps	750 Mbps	1 Gbps	1 Gbps
Advanced Security Throughput	320 Mbps	650 Mbps	1 Gbps	1 Gbps
Maximum concurrent VPN tunnels	100	250	1,000	5,000
Interfaces	10 x GbE 2 x GbE (SFP)	9 x GbE 2 x GbE (SFP)	4 x GbE	4 x GbE
Additional Interface Modules	N/A	N/A	8 x GbE (RJ45) 8 x GbE (SFP) 2 x 10GbE (SFP+) (2 modules max)	8 x GbE (RJ45) 8 x GbE (SFP) 2 x 10GbE (SFP+) (2 modules max)
Web Caching	1TB	1TB	1TB	4 × 1 TB (RAID)
USB for 3G/4G Failover	Yes	Yes	Yes	Yes
Mounting	1U rack	1U rack	1U rack	2U rack
Dimensions	19.0" × 10.0 " × 1.75" (483 mm × 254 mm × 44 mm)	19.0" × 10.0 " × 1.75" (483 mm × 254 mm × 44 mm)	19.0" x 22.0 " x 1.75" (483 mm x 559 mm x 44 mm)	19.0" x 22.0 " x 3.5" (483 mm x 559 mm x 89 mm)
Weight	9 lb (4.1kg)	9 lb (4.1kg)	33 lb (15.0 kg)	53 lb (24.0 kg)
Power Supply	Internal, 100-220V 50/60Hz AC	Internal, 100-220V 50/60Hz AC	Internal, 100-220V 50/60Hz AC (dual)	Internal, 100-220V 50/60Hz AC (dual)
Power Load (idle/max)	26W / 32W	30W / 55W	123W / 215W	132W / 226W
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%

Desktop and virtual models

	MX64(W)	MX65(W)	Z1	VMX100
			-	VMX
Recommended use cases	Small retail branch	Small retail branch	Teleworker Gateway	Amazon Web Services
Recommended max users	50	50	5	N/A
Stateful Firewall Through- put	250 Mbps	250 Mbps	50 Mbps	N/A
Advanced Security Throughput	200 Mbps	200 Mbps	N/A	N/A
Maximum concurrent VPN tunnels / throughput	50	50	10 Mbps	500 Mbps
Interfaces	5 x GbE	12 x GbE (2 PoE+)	5 x GbE	1 virtual
Additional Interface Modules	N/A	N/A	N/A	N/A
Web Caching	N/A	N/A	N/A	N/A
USB for 3G/4G Failover	Yes	Yes	Yes	N/A
Mounting	Desk / Wall	Desk / Wall	Desk	Virtual Machine
Dimensions	9.5" x 5.2" x 1" (239mm x 132mm x 25mm)	10.0" x 5.2" x 1" (256mm x 132mm x 25mm)	6.46" x 4.55" x 1.14" (164 mm x 116 mm x 29 mm)	N/A
Weight	3.04 lb (1.4 kg)	3.37 lb (1.53 kg)	0.9 lbs (0.408 kg)	N/A
Power Supply	18W DC (included)	90W DC (included)	12 V / 1.5 Amp power supply (included)	N/A
Power Load (idle/max)	4W / 10W (MX64) 6W / 13W (MX64W)	6W / 72W (MX65) 9W / 79W (MX65W)	N/A	N/A
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)	N/A
Humidity	5% to 95%	5% to 95%	5% to 95%	N/A

Specifications

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Management	Advanced Security Services
Managed via the web using the Cisco Meraki dashboard	Content filtering (Webroot BrightCloud CIPA compliant URL database)
Single pane-of-glass into managing wired and wireless networks	Web search filtering (including Google / Bing SafeSearch)
Zero-touch remote deployment (no staging needed)	YouTube for Schools
Automatic firmware upgrades and security patches	Intrusion-prevention sensor (Sourcefire SNORT® based)
Templates based multi-network management	Anti-virus engine and anti-phishing filtering (Kaspersky SafeStream II engine)
Org-level two-factor authentication and single sign-on	Geography based firewall rules (MaxMind Geo-IP database)
Role based administration with change logging and alerts	Note: Advanced security services require Advanced Security license.
Monitoring and Reporting	Integrated Wireless (MX64W and MX65W only)
Throughput, connectivity monitoring and email alerts	1 x 802.11a/n/ac (5 GHz) radio
Detailed historical per-port and per-client usage statistics	1 x 802.11b/g/n (2.4 GHz) radio
Application usage statistics	Max data rate 1.2 Gbit/s (aggregate)
Org-level change logs for compliance and change management	2 x 2 MIMO with two spatial streams
VPN tunnel and latency monitoring	2 external dual-band dipole antennas (connector type: RP-SMA)
Network asset discovery and user identification	Antenna gain: 3.0 dBi @ 2.4 GHz, 3.5 dBi @ 5 GHz
Periodic emails with key utilization metrics	WEP, WPA, WPA2-PSK, WPA2-Enterprise with 802.1X authentication
Syslog integration	FCC (US): 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)
Remote Diagnostics	CE (Europe): 2.412-2.484 GHz, 5.150-5.250 GHz (UNII-1), 5.250-5.350 GHZ (UNII-2)
Live remote packet capture	- 5.470-5.600 GHz, 5.660-5.725 GHz (UNII-2e)
Real-time diagnostic and troubleshooting tools	- Additional regulatory information: IC (Canada), C-Tick (Australia/New Zealand), RoHS
Aggregated event logs with instant search	-
	Power over Ethernet (MX65 and MX65W only)
Network and Security Services	2 x PoE+ (802.3at) LAN ports
Stateful firewall, 1:1 NAT, DMZ	 30W maximum per port
Identity-based policies	-
Auto VPN: Automated site-to-site (IPsec) VPN, for hub-and-spoke or mesh topologies	_ Regulatory
Client (IPsec L2TP) VPN	_ FCC (US)
Multiple WAN IP, PPPoE, NAT	_ CB (IEC)
VLAN support and DHCP services	 CISPR (Australia/New Zealand)
Static routing	-
User and device guarantine	_ Warranty
	Full lifetime hardware warranty with next-day advanced replacement included.
WAN Performance Management	-
Web caching (not available on the MX64/MX64W and MX65/MX65W)	-
WAN link aggregation	-
Automatic Layer 3 failover (including VPN connections)	-
3G / 4G USB modem failover	-
Application level (Laver 7) traffic analysis and shaning	-

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

Cisco Systems, Inc. | 500 Terry A. Francois Blvd, San Francisco, CA 94158 | (415) 432-1000 | sales@meraki.com

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 3 years of Advanced Security license, order an MX64-HW with LIC-MX64-SEC-3YR. Lifetime warranty with advanced replacement is included on all hardware at no additional cost.

MODEL	LICENSE	DESCRIPTION
MX64-HW	LIC-MX64-ENT-1YR LIC-MX64-ENT-3YR LIC-MX64-ENT-5YR LIC-MX64-SEC-1YR LIC-MX64-SEC-3YR LIC-MX64-SEC-5YR	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, 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
MX64W-HW	LIC-MX64W-ENT-1YR LIC-MX64W-ENT-3YR LIC-MX64W-ENT-5YR LIC-MX64W-SEC-1YR LIC-MX64W-SEC-3YR LIC-MX64W-SEC-5YR	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, 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
MX65-HW	LIC-MX65-ENT-1YR LIC-MX65-ENT-3YR LIC-MX65-ENT-5YR LIC-MX65-SEC-1YR LIC-MX65-SEC-3YR LIC-MX65-SEC-5YR	Cisco Meraki MX65, 1 year Enterprise License and Support Cisco Meraki MX65, 3 year Enterprise License and Support Cisco Meraki MX65, 5 year Enterprise License and Support Cisco Meraki MX65, 1 year Advanced Security License and Support Cisco Meraki MX65, 3 year Advanced Security License and Support Cisco Meraki MX65, 5 year Advanced Security License and Support
MX65W-HW	LIC-MX65W-ENT-1YR LIC-MX65W-ENT-3YR LIC-MX65W-ENT-5YR LIC-MX65W-SEC-1YR LIC-MX65W-SEC-3YR LIC-MX65W-SEC-3YR	Cisco Meraki MX65W, 1 year Enterprise License and Support Cisco Meraki MX65W, 3 year Enterprise License and Support Cisco Meraki MX65W, 5 year Enterprise License and Support Cisco Meraki MX65W, 1 year Advanced Security License and Support Cisco Meraki MX65W, 3 year Advanced Security License and Support Cisco Meraki MX65W, 5 year Advanced Security License and Support
MX84-HW	LIC-MX84-ENT-1YR LIC-MX84-ENT-3YR LIC-MX84-ENT-5YR LIC-MX84-SEC-1YR LIC-MX84-SEC-3YR LIC-MX84-SEC-5YR	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, 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
MX100-HW	LIC-MX100-ENT-1YR LIC-MX100-ENT-3YR LIC-MX100-ENT-5YR LIC-MX100-SEC-1YR LIC-MX100-SEC-3YR LIC-MX100-SEC-5YR	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 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
MX400-HW	LIC-MX400-ENT-1YR LIC-MX400-ENT-3YR LIC-MX400-ENT-5YR LIC-MX400-SEC-1YR LIC-MX400-SEC-3YR LIC-MX400-SEC-5YR	Cisco Meraki MX400, 1 year Enterprise License and Support Cisco Meraki MX400, 3 year Enterprise License and Support Cisco Meraki MX400, 5 year Enterprise License and Support Cisco Meraki MX400, 1 year Advanced Security License and Support Cisco Meraki MX400, 3 year Advanced Security License and Support Cisco Meraki MX400, 5 year Advanced Security License and Support
MX600-HW	LIC-MX600-ENT-1YR LIC-MX600-ENT-3YR LIC-MX600-ENT-5YR LIC-MX600-SEC-1YR LIC-MX600-SEC-3YR LIC-MX600-SEC-5YR	Cisco Meraki MX600, 1 year Enterprise License and Support Cisco Meraki MX600, 3 year Enterprise License and Support Cisco Meraki MX600, 5 year Enterprise License and Support Cisco Meraki MX600, 1 year Advanced Security License and Support Cisco Meraki MX600, 3 year Advanced Security License and Support Cisco Meraki MX600, 5 year Advanced Security License and Support
vMX100	LIC-VMX100-1YR LIC-VMX100-3YR LIC-VMX100-5YR	Cisco Meraki VMX100, 1 year License and Support Cisco Meraki VMX100, 3 year License and Support Cisco Meraki VMX100, 5 year License and Support

*Note: For each MX product, additional 7 or 10 year Enterprise or Advanced Security licensing options are also available (ex: LIC-MX100-SEC-7YR).

Accessories

The Cisco Meraki MX84, MX100, MX400, and MX600 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.



Interface Modules for MX400 and MX600



Pluggable (SFP) Optics for MX84, MX100, MX400, and MX600

ACCESSORIES / OPTICS

Supported Cisco Meraki accessory modules.

MODEL	DESCRIPTION
IM-8-CU-1GB	Cisco Meraki 8 x 1 GbE Copper Interface Module for MX400 and MX600
IM-8-SFP-1GB	Cisco Meraki 8 x 1 GbE SFP Interface Module for MX400 and MX600
IM-2-SFP-10GB	Cisco Meraki 2 x 10 GbE SFP+ Interface Module for MX400 and MX600
MA-SFP-1GB-SX	Cisco Meraki 1 GbE SFP SX Fiber Module (1000BASE-SX, range: 550m) for MX84, MX100, MX400 and MX600
MA-SFP-10GB-SR	Cisco Meraki 10 GbE Short Range SFP+ Module (10GBASE-SR, range: 400m) for MX400 and MX600
MA-CBL-TA-1M	Cisco Meraki 10 GbE Twinax Cable with SFP+ Connectors (10GSFP+Cu, range: 1m) for MX400 and MX600
MA-CBL-TA-3M	Cisco Meraki 10 GbE Twinax Cable with SFP+ Connectors (10GSFP+Cu, range: 3m) for MX400 and MX600
MA-PWR-30WAC	Meraki MX64 Replacement Power Adapter (30 WAC)
MA-PWR-90WAC	Meraki MX65 Replacement Power Adapter (90 WAC)
MA-ANT-MX	One pair of external dual-band dipole antennas (connector type: RP-SMA) for MX64W or MX65W

Note: Please refer to meraki.com for additional single-mode and multi-mode fiber transceiver modules

POWER CABLES

1 power cable required for each MX. Customers outside the US are required to order power cords separately.

SKU

MA-PWR-CORD-US

MA-PWR-CORD-EU

MA-PWR-CORD-UK

MA-PWR-CORD-AU