MX64 and MX65 Overview and Specifications

Note - The MX18.1 firmware release will be the maximum running build for MX64, MX64W, MX65, MX65W, MX84, MX100, and vMX100 platforms. These platforms will not run MX 18.2 and above firmware builds. We recommend you stay up to date with all the latest features with the next-generation hardware platforms. **Please consult your sales representative for more information on the latest hardware and software releases.** Thank you

Overview

The Meraki MX64 and MX65 are enterprise security appliances designed for distributed deployments that require remote administration. It is ideal for network administrators who demand both ease of deployment and a state-of-the-art feature set. The Meraki Dashboard allows for simple and easy deployment of the MX64 or MX65 with minimal pre-configuration in almost any location.

The MX64 and MX65 are also available in Wireless models (MX64W / MX65W) that can provide 802.11ac coverage for wireless clients.

Features

- Managed via Cisco Meraki Dashboard
- Automatic Firmware upgrades
- WAN Link Balancing
- Automatic WAN Failover
- SD-WAN over Meraki AutoVPN
- Meraki AutoVPN and L2TP/IPSec VPN endpoint
- Active Directory integration
- Content Filtering
- Malware Protection (AMP) w/ optional Threat Grid integration
- IDS/IPS protection

- L3/L7 Stateful Firewall
- Geo-based firewall rules
- 1:1 and 1:Many NAT
- Configurable VLANs / DHCP support
- Static Routing
- Client VPN endpoint
- Custom Traffic Shaping
- Historical Client Usage statistics
- Netflow support
- Syslog integration
- Remote Packet Capture tools

Hardware Features

- Dual WAN uplinks
- Built-in 802.11ac Wireless capability (Wireless models only)
- Built-in PoE+ capabilities (MX65 only)

Configuration

The basic initial configuration of the MX64 and MX65 is just as simple as with other MX models. The links below provide additional information and instructions relating to each step in getting the device setup and configured for the first time.

1. Claim the device to an Organization on the Meraki Dashboard
    a. If a Dashboard Organization does not yet exist, Create one
2. Add the device to a Dashboard Network
    a. If a Network does not yet exist, Create one first
3. Physically connect the device to the local network
    a. Ensure the wireless antennas are connected correctly (Wireless models only)
    b. Power on the device and let it check in to the Dashboard
    c. If necessary, configure a Static IP on the WAN interface through the Local Status Page to allow it to check in.
4. Finish configuring the device from the Meraki Dashboard
    a. Manage local VLANs
    b. Modify Firewall rules
    c. Configure VPN connectivity

Context and Comparisons

Description	MX64	MX65
Dual WAN Uplinks	Yes (With LAN conversion)	Yes
Backup Cellular Uplink	Via 3rd Party USB Modem	Via 3rd Party USB Modem
Stateful Firewall Throughput	250 Mbps	250Mbps
Maximum VPN Throughput	70 Mbps	70 Mbps
Security Throughput	200 Mbps	200 Mbps
PoE Capabilities	No	Yes, 2x GbE RJ45 LAN Ports
Recommended Device Count	50	50

Technical Breakdown

Physical Interfaces

Interfaces	MX64 / MX64W	MX65 / MX65W
WAN Interfaces	1x Dedicated GbE RJ45 1x Convertible LAN/WAN GbE RJ45	2x Dedicated GbE RJ45
Cellular Interface	Cellular Uplink via 3rd Party USB Modem	Cellular Uplink via 3rd Party USB Modem
LAN Interfaces	3x Dedicated GbE RJ4 1x Convertible LAN/WAN GbE RJ45	10x Dedicated GbE RJ45 2x Dedicated GbE RJ45 PoE+
Management Interface	No dedicated management port	No dedicated management port

For management access, please review this document.

802.11 Wireless Interface

Description	MX64W	MX65W

Radio Information	802.11a/b/g/n/ac	802.11a/b/g/n/ac
Maximum Data Rate	1.2 Gbps	1.2 Gbps

Throughput and Capabilities

Description	MX64 / MX64W	MX65 /MX65W
Recommended Device Count	50	50
Max Stateful Firewall Throughput in NAT mode	250 Mbps	250 Mbps
Max VPN Throughput	70 Mbps	70 Mbps
Max Concurrent VPN Tunnels (Site-to-Site or Client VPN)	50	50

Physical Specifications

Description	MX64	MX64W	MX65	MX65W
Mount Type	Desktop / Wall Mount	Desktop / Wall Mount	Desktop / Wall Mount	Desktop / Wall Mount
Dimensions (h x d x w)	1in x 5.2in x 9.5in (25mm x 132mm x 239mm)	1in x 5.2in x 9.5in (25mm x 132mm x 239mm)	1in x 5.2in x 10in (25mm x 132mm x 256mm)	1in x 5.2in x 10in (25mm x 132mm x 256mm)
Weight	1.61 lb (0.7 kg)	1.61 lb (0.7 kg)	1.61 lb (0.7 kg)	1.61 lb (0.7 kg)
Power Supply	30W DC	30W DC	90W DC	90W DC
Power Load (idle/ max)	4W / 10W	6W / 13W	6W / 72W	9W / 79W
Operating Temperature	32°F - 113°F 0°C - 45°C	32°F - 113°F 0°C - 45°C	32°F - 113°F 0°C - 45°C	32°F - 104 °F 0°C - 40°C
Humidity	5% to 95%	5% to 95%	5% to 95%	5% to 95%

Accessories

Accessory	Description
MA-PWR-30WAC	Meraki MX Replacement Power Adapter (MX64) (30 Watts AC)
MA-PWR-90WAC	Meraki MX Replacement Power Adapter (MX65) (90 Watts AC)
MA-ANT-MX	One pair of external dual-band dipole 802.11 antennas for MX64W / 65W (Connector type: RP-SMA)
MA-PWR-CORD-US	1x AC Power Cable, US plug
MA-PWR-CORD-EU	1x AC Power Cable, EU plug
MA-PWR-CORD-UK	1x AC Power Cable, UK plug
MA-PWR-CORD-AU	1x AC Power Cable, AU plug

Common Event Log Messages

There are currently no MX64 / MX65 specific Event Log entries, for more general information about navigating the Event Log and the types of Events that could be expected please check out our Event Log documentation.

Warranty

MX Warranty coverage periods are as follows:

Product	Warranty Period	Warranty Information
MX64/65	Lifetime	Full lifetime hardware warranty with next-day advanced replacement included.
MX64/65 Accessories	1 Year	The following are considered accessories: SFP Modules, all mounting kits and stands, interface modules, additional

Product	Warranty Period	Warranty Information
		power cords

Additional warranty information can be found on the Return Policy and Requesting an RMA page of the Cisco Meraki website.

If your Cisco Meraki device fails and the problem cannot be resolved by troubleshooting, contact support to address the issue. Once support determines that the device is in a failed state, they can process an RMA and send out a replacement device free of charge. In most circumstances, the RMA will include a pre-paid shipping label so the faulty equipment can be returned.

In order to initiate a hardware replacement for non-functioning hardware that is under warranty, you must have access to the original packaging the hardware was shipped in. The original hardware packaging includes device serial number and order information, and may be required for return shipping.