# 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<br><br>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<br>1x Convertible LAN/WAN GbE RJ45 | 10x Dedicated GbE RJ45<br>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<br>0°C - 45°C | 32°F - 113°F<br>0°C - 45°C | 32°F - 113°F<br>0°C - 45°C | 32°F - 104 °F<br>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:<br><br>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.