Meraki

MX650 Datasheet

> ⊘ The network performance benchmarks listed in the KB are target numbers based on initial testing and can change on further testing.

Overview

The Meraki **MX650** is a Security & SD-WAN Appliance designed to provide VPN Concentration services for large VPN topologies. It is ideal for network administrators who demand both ease of deployment and a state-of-the-art feature sets. The Meraki dashboard allows for simple and easy deployment of the MX650 with minimal preconfiguration in almost any location.

Includes 1x dedicated WAN 25G SFP28 port. LAN Ports include 1x 25G SFP28, 2x 10G SFP+, 8x SFP 1GbE ports. The MX650 is ready for deployment in a variety of enterprise environments. MX650 appliances provide the following features:

> ⓘ Currently the MX650 device's supported deployment model is one-armed VPN Concentrator mode where a single 25G SFP28 Uplink is enabled.

Features

Supported Features

VPN Concentrator Mode

Traffic Analytics (DPI, NBAR)

Client Details Reporting

Intrusion Detection and Prevention (IPS)

Layer 3 Firewall Rules

eBGP

AutoVPN

IPSec VPN

Context and Comparisons

	MX250	**MX450**
Maximum NAT Firewall Throughput	7.5 Gbps	10 Gbps
Maximum NGFW Throughput	3.5 Gbps	7.5 Gbps
Maximum Site-to-Site VPN Throughput	3.5 Gbps	4.5 Gbps
Advanced Security Throughput	3.5 Gbps	7 Gbps
Recommended Device Count	2,000	10,000
Recommended Use Case	SD-WAN & UTM Edge for Large Campus / VPN Concentrator for Large VPN Topologies	SD-WAN & UTM Edge for Large Campus / VPN Concentrator for Large VPN Topologies

Technical Breakdown

Interfaces

Note:

ⓘ Currently the MX650 device's supported deployment model is one-armed VPN Concentrator mode where a single 25G SFP28 Uplink is enabled.

WAN

- 2x SFP28 / 25 Gigabit Ethernet port for the WAN Uplink

LAN

- 2x SFP+ / 10 Gigabit Ethernet LAN Ports

- 8x SFP / 1 Gigabit Ethernet LAN Ports

Management

- 1x RJ45 Console Port

- 1x RJ45 Management Interface

Physical

Mount Type	Rack mount
Dimensions **(h x d x w)**	<u>**To be announced**</u>
Weight	12.5 lbs
Input operating voltage	85 to 264 Vac 47 to 63 Hz
PSU model number	PWR-CH1-250WAC,
Power load (idle/max)	<u>**To be announced**</u>
Operating temperature	32° to 104°F (0° to 40°C)
Humidity	10 to 85% non-condensing

Accessories

Accessory	Description
PWR-CH1-250WAC	1x Meraki MX650 power supply unit (PSU)
MA-PWR-CORD-US	1x AC power cable, U.S. 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
MA-PWR-CORD-BR	1X AC power cable, BR plug
C8500L-RM-19-1R **C8500L-RM-23-1R**	Optional: Rack mount kit. (Not included with MX650)

Compatible Fiber Transceiver Modules

Note: Please refer to the Meraki SFP datasheet for additional information about the SFP accessories

In addition to the above, the following SFP modules are supported on the MX650:

- SFP-25G-SR-S
- SFP-10/25G-CSR-S
- SFP-10/25G-LR-S
- SFP-H25G-CUxx
- SFP-25G-SL

Warranty

MX Warranty coverage periods are as follows:

Product	Warranty Period	Warranty Information
MX650	Lifetime	Full lifetime hardware warranty with next-day advanced replacement included.
MX650 Accessories	1 Year	The following are considered accessories: SFP Modules, all mounting kits and stands, interface modules, additional power cords

Additional warranty information can be found on the Return Policy and Requesting a 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.

Troubleshooting

Common Event Log Messages

Common event logs exist for security appliance events. As such, no specific MX650 event log entries are required at this time.

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.