MX85 Datasheet

By Amon Stinson, Don Vo and Simarbir Singh

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

Overview

The Meraki **MX85** is an enterprise security appliance designed for distributed deployments that require remote administration across Medium branch environments. 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 **MX85** with minimal pre-configuration in almost any location.

Providing 4 dedicated WAN uplinks, 2 x 1GbE SFP ports and 2 x RJ45 1GbE ports. The LAN ports include 8 x RJ45 1GbE ports, and 2 x SFP ports. The MX85 is ready for deployment in a variety of enterprise environments. The MX85 appliance provides the following features:

Features

- Managed via Cisco Meraki Dashboard
- Meraki AutoVPN and L2TP/IPSec VPN endpoint

- Automatic Firmware upgrades

- WAN Link Balancing

- Automatic WAN Failover

- SD-WAN over Meraki AutoVPN

- L3/L7 Stateful Firewall

- Geo based firewall rules

- 1:1 and 1:Many NAT

- Configurable VLANs / DHCP support

- Static Routing

- Client VPN endpoint

- Active Directory integration

- Content Filtering

- Malware Protection (AMP) w/ optional Threat Grid integration

- IDS/IPS protection

- Custom Traffic Shaping

- Historical Client Usage statistics

- Netflow support

- Syslog integration

- Remote Packet Capture tools

Interfaces

- 2 x 1 Gigabit Ethernet SFP ports dedicated for the WAN uplinks

- 1 x RJ45 / 1 Gigabit Ethernet port dedicated for the WAN uplinks

- 1 x RJ45 / 1 Gigabit Ethernet port with PoE+ capabilities dedicated for the WAN uplinks

- 8 x RJ45 / 1 Gigabit Ethernet LAN ports

- 2 x SFP / 1 Gigabit Ethernet LAN ports

- 1 x RJ45 dedicated management port for local status page access

- 1 x USB 3.0 port

Context and Comparisons

	MX75	**MX85**
# of WAN Uplinks	3	4
Stateful Firewall Throughput	1 Gbps	1 Gbps
Maximum site-to-site VPN Throughput	500 Mbps	500 Mbps
Advanced Security Throughput	750 Mbps	750 Mbps
PoE Capabilities	Yes, 2x RJ45 / 1 Gigabit Ethernet port (LAN)	Yes, 1x RJ45 / 1 Gigabit Ethernet port (WAN)

Technical Breakdown

WAN Interface

MX75	MX85
1 x Dedicated 1 Gigabit Ethernet SFP	2x Dedicated 1 Gigabit Ethernet SFP
2 x Dedicated 1 Gigabit Ethernet RJ45	2x Dedicated 1 Gigabit Ethernet RJ45

> ⓘ **Note:** The MX firmware currently supports a maximum of two Active WAN Uplinks. For more information about the interface behaviors, please refer to our WAN behavior on MX75/85/95/105 documentation.

LAN Interface

MX75	MX85
10 x Dedicated 1 Gigabit Ethernet RJ45	8 x Dedicated 1 Gigabit Ethernet RJ45
	2 x Dedicated 1 Gigabit Ethernet SFP

Throughput and Capabilities

	MX75	MX85
Recommended Use Case	Small branch with up to 200 users	Small to medium branch with up to 250 users
Max VPN Throughput	500 Mbps	500 Mbps
Max Concurrent site-to-site VPN Tunnels	75	100
Max Stateful Firewall Throughput	1Gbps	1Gbps
Max Advanced Security Throughput	750 Mbps	750 Mbps

Physical

	MX75	MX85
Mount Type	Desktop	Rack Mount
Dimensions	1.06" x 5.83" x 11.14"	1.7" x 9.8" x 19"
(h x d x w)	27 x 148 x 283 mm	43.8 x 250 x 484.6 mm
Weight	1.87lb (0.85kg)	8.2lb (3.7kg)

Input Operating Voltage	90-264VAC	90-264VAC
	(47-63Hz)	(47-63Hz)
PSU Model Number	MA-PWR-100WAC	N/A
Power Load (idle/max)	12W / 96W	12W / 55W
Operating Temperature	32°F to 113°F	32°F to 104°F
	(0°C to 45°C)	(0°C to 40°C)
Humidity	5% to 95%	5% to 95%

Accessories

Accessory	Description
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
MA-RCKMNT-KIT-1	Optional: Rack mount screws kit. (Not included with MX85)

Compatible Fiber Transceiver Modules

The Cisco Meraki MX85 supports pluggable optics for high-speed backbone connections between wiring closets or to aggregation switches. Cisco Meraki offers several standards-based Gigabit pluggable modules. Each appliance has also been tested for compatibility with several third party modules.

Product ID	Fiber Type
MA-SFP-1GB-SX	Multi-Mode Fiber (MMF)
MA-SFP-1GB-LX10	Single-Mode Fiber (SMF)
MA-SFP-1GB-TX	N/A (RJ45 Copper SFP)

ⓘ **Note**: Please refer to the Meraki SFP Datasheet for additional information about the fiber transceiver modules

Troubleshooting

Common Event Log Messages

There are currently no MX85 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.