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## MX85 Datasheet

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

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## 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:



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## 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

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

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# Technical Breakdown

## WAN Interface

### MX75

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

### MX85

2x Dedicated 1 Gigabit Ethernet SFP  
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

10 x Dedicated 1 Gigabit Ethernet RJ45

### MX85

8 x Dedicated 1 Gigabit Ethernet RJ45  
2 x Dedicated 1 Gigabit Ethernet SFP

## Throughput and Capabilities

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

## Physical

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

<b>Input Operating Voltage</b>	90-264VAC (47-63Hz)	Internal 100-127VAC, 200-240VAC (50/60Hz)
<b>PSU Model Number</b>	MA-PWR-100WAC	N/A
<b>Power Load (idle/max)</b>	12W / 96W	12W / 55W
<b>Operating Temperature</b>	32°F to 113°F (0°C to 45°C)	32°F to 104°F (0°C to 40°C)
<b>Humidity</b>	5% to 95%	5% to 95%

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## Accessories

Accessory	Description
<b>MA-PWR-CORD-US</b>	1x AC Power Cable, US plug
<b>MA-PWR-CORD-EU</b>	1x AC Power Cable, EU plug
<b>MA-PWR-CORD-UK</b>	1x AC Power Cable, UK plug
<b>MA-PWR-CORD-AU</b>	1x AC Power Cable, AU plug
<b>MA-RCKMNT-KIT-1</b>	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
<b>MA-SFP-1GB-SX</b>	Multi-Mode Fiber (MMF)
<b>MA-SFP-1GB-LX10</b>	Single-Mode Fiber (SMF)
<b>MA-SFP-1GB-TX</b>	N/A (RJ45 Copper SFP)



**Note:** Please refer to the [Meraki SFP Datasheet](#) for additional information about the fiber transceiver modules

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## 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](#).