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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
- Automatic Firmware upgrades
- WAN Link Balancing
- Automatic WAN Failover
- SD-WAN over Meraki AutoVPN
- L3/L7 Stateful Firewall
- Meraki AutoVPN and L2TP/IPSec VPN endpoint
- Active Directory integration
- Content Filtering
- Malware Protection (AMP) w/ optional Threat Grid integration
- IDS/IPS protection
- Custom Traffic Shaping

- Geo based firewall rules
- 1:1 and 1:Many NAT
- Configurable VLANs / DHCP support
- Static Routing
- Client VPN endpoint
- 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 for cellular modem back up

## Context and Comparisons

	<b><u>MX75</u></b>	<b><u>MX85</u></b>
<b># of WAN Uplinks</b>	3	4
<b>Backup Cellular Uplink</b>	Via 3rd Party USB Modem	Via 3rd Party USB Modem
<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)

## 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

Cellular Uplink via 3rd Party USB Modem	Cellular Uplink via 3rd Party USB Modem
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## LAN Interface

<b>MX75</b>	<b>MX85</b>
10 x Dedicated 1 Gigabit Ethernet RJ45	8 x Dedicated 1 Gigabit Ethernet RJ45 2 x Dedicated 1 Gigabit Ethernet SFP

## Throughput and Capabilities

	<b>MX75</b>	<b>MX85</b>
<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

	<b><u>MX75</u></b>	<b><u>MX85</u></b>
<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)	90-264VAC (47-63Hz)
<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	32°F to 104°F

(0°C to 45°C)

(0°C to 40°C)

Humidity

5% to 95%

5% to 95%

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## 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	Rack mount screws kit



**Note:** Please refer to [meraki.com](https://meraki.com) for additional single-mode and multi-mode 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](#).