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## MX95/105 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 **MX95/105** 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 MX95/105 with minimal pre-configuration in almost any location.

Providing 4 x dedicated WAN uplinks, 2 x 10G SFP+ ports and 2 x RJ45 2.5G mGig ports. The LAN ports include 4 x RJ45 1GbE ports, and 2 x SFP+ 10G ports, the MX95/105 is ready for deployment in a variety of enterprise environments. MX95/105 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
- Active Directory integration

- 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
- 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

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## Interfaces

- 2 x SFP+ / 10 Gigabit Ethernet ports dedicated for the WAN uplink
- 1 x RJ45 / 2.5 Gigabit Ethernet port dedicated for the WAN uplink
- 1 x RJ45 / 2.5 Gigabit Ethernet port with PoE+ capabilities dedicated for the WAN uplink
- 4 x RJ45 / 1 Gigabit Ethernet LAN ports
- 2 x SFP+ / 10 Gigabit Ethernet LAN ports
- 1 x RJ45 management port for local status page access
- 1 x USB 3.0 port

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## Context and Comparisons

	<b><u>MX85</u></b>	<b><u>MX95</u></b>	<b><u>MX105</u></b>
<b># of WAN Uplinks</b>	4	4	4
<b>Stateful Firewall Throughput</b>	1 Gbps	2 Gbps	3 Gbps
<b>Maximum VPN Throughput</b>	500 Mbps	800 Mbps	1 Gbps
<b>Advanced Security Throughput</b>	750 Mbps	1Gbps	1.5 Gbps
<b>PoE Capabilities</b>	Yes, 1x RJ45 / 1 Gigabit Ethernet port (WAN)	Yes, 1x RJ45 / 1 Gigabit Ethernet port (WAN)	Yes, 1x RJ45 / 1 Gigabit Ethernet port (WAN)

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## Technical Breakdown

### WAN Interface

#### MX85

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

#### MX95/105

2x Dedicated 10 Gigabit Ethernet SFP+  
2x Dedicated 2.5 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

#### MX85

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

#### MX95/105

4 x Dedicated 1 Gigabit Ethernet RJ45  
2 x Dedicated 10 Gigabit Ethernet SFP+

### Throughput and Capabilities

	<u>MX85</u>	<u>MX95</u>	<u>MX105</u>
<b>Recommended Use Case</b>	Small to medium branch with up to 250 users	Mid to large enterprise locations with 500 users	Mid to large enterprise locations with 750 users
<b>Max site-to-site VPN Throughput</b>	500 Mbps	800 Mbps	1 Gbps
<b>Max Concurrent site-to-site VPN Tunnels</b>	200	500	1000
<b>Max Stateful Firewall Throughput</b>	1 Gbps	2 Gbps	3 Gbps
<b>Max Throughput with All Advanced Security features</b>	750 Mbps	1Gbps	1.5 Gbps

### Physical

	<u>MX85</u>	<u>MX-95</u>	<u>MX105</u>
<b>Mount Type</b>	Rack Mount	Rack Mount	Rack Mount
<b>Dimensions</b>	1.7" x 9.8" x 19"	1.73" x 11.23" x 19"	1.73" x 12.4" x 19"

<b>(h x d x w)</b>	43.8 x 250 x 484.6mm	44 x 285.2 x 484.6mm	44 x 315 x 484.6mm
<b>Weight</b>	8.2lb (3.7kg)	6.99lbs (3.17kg)	10.74lbs (4.87kg)
			2 Fans and 2 PSUs inserted
<b>Input Operating Voltage</b>	90-264VAC (47-63Hz)	100-127VAC, 200-240VAC (50/60Hz)	100-127VAC, 200-240VAC (50/60Hz)
<b>PSU Model Number</b>	N/A	N/A	Removable MA-PWR-150W AC
<b>Power Load (idle/max)</b>	12W / 55W	42W/ 109W	53W/ 123W
<b>Operating Temperature</b>	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
<b>Humidity</b>	5% to 95%	5% to 95%	5% to 95%

## Accessories

Accessory	Description
<b>MA-PWR-150WAC</b>	1x Meraki MX105 Power Supply Unit (PSU)
<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-PWR-CORD-BR</b>	1X AC Power Cable, BR plug
<b>MA-RCKMNT-KIT-1</b>	Optional: Rack mount screws kit. (Not included with MX95 and MX105)

## Compatible Fiber Transceiver Modules

The Cisco Meraki MX95 and MX105 supports pluggable optics for high-speed backbone connections between wiring closets or to aggregation switches. Cisco Meraki offers several standards-based Gigabit and 10 Gigabit pluggable modules. Each appliance has also been tested for compatibility with several third party modules.

Product ID	Fiber Type
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<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)
<b>MA-SFP-10GB-SR</b>	Multi-Mode Fiber (MMF)
<b>MA-SFP-10GB-LR</b>	Single-Mode Fiber (SMF)
<b>MA-SFP-10GB-LRM</b>	Single-Mode Fiber (SMF)
<b>MA-SFP-10GB-LRM</b>	Multi-Mode Fiber (MMF)
<b>MA-SFP-10GB-ER</b>	Single-Mode Fiber (SMF)
<b>MA-SFP-10GB-ZR</b>	Single-Mode Fiber (SMF)

## Direct Attach

<b>Product ID</b>	<b>Description</b>
<b>MA-CBL-TA-1M</b>	10GSFP+Cu, 1m Passive Twinax
<b>MA-CBL-TA-3M</b>	10GSFP+Cu, 3m Passive Twinax



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

## Troubleshooting

### Common Event Log Messages

There are currently no MX95/105 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](#).