
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.

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:



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

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

Context and Comparisons

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

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>
Recommended Use Case	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
Max site-to-site VPN Throughput	500 Mbps	800 Mbps	1 Gbps
Max Concurrent site-to-site VPN Tunnels	200	500	1000
Max Stateful Firewall Throughput	1 Gbps	2 Gbps	3 Gbps
Max Throughput with All Advanced Security features	750 Mbps	1Gbps	1.5 Gbps

Physical

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

(h x d x w)	43.8 x 250 x 484.6mm	44 x 285.2 x 484.6mm	44 x 315 x 484.6mm
Weight	8.2lb (3.7kg)	6.99lbs (3.17kg)	10.74lbs (4.87kg)
			2 Fans and 2 PSUs inserted
Input Operating Voltage	90-264VAC (47-63Hz)	100-127VAC, 200-240VAC (50/60Hz)	100-127VAC, 200-240VAC (50/60Hz)
PSU Model Number	N/A	N/A	Removable MA-PWR-150W AC
Power Load (idle/max)	12W / 55W	42W/ 109W	53W/ 123W
Operating Temperature	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)
Humidity	5% to 95%	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 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
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)
MA-SFP-10GB-SR	Multi-Mode Fiber (MMF)
MA-SFP-10GB-LR	Single-Mode Fiber (SMF)
MA-SFP-10GB-LRM	Single-Mode Fiber (SMF)
MA-SFP-10GB-LRM	Multi-Mode Fiber (MMF)
MA-SFP-10GB-ER2	Single-Mode Fiber (SMF)
MA-SFP-10GB-ZR	Single-Mode Fiber (SMF)

Direct Attach

Product ID	Description
MA-CBL-TA-1M	10GSFP+Cu, 1m Passive Twinax
MA-CBL-TA-3M	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](#).