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 preconfiguration in almost any location.

Includes 4x dedicated WAN uplinks, 2x 10G SFP+ ports, and 2x RJ45 2.5G mGig ports. The LAN ports include 4x RJ45 1 GbE ports and 2x SFP+ 10G ports. The MX95/105 is ready for deployment in a variety of enterprise environments. MX95/105 appliances provide the following features:

Features

- Managed via Cisco Meraki dashboard

- Automatic firmware upgrades

- Meraki Auto VPN and L2TP/IPSec VPN endpoint

- Active Directory integration

- WAN link balancing

- Automatic WAN failover

- SD-WAN over Meraki Auto VPN

- 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

- 2x SFP+ / 10 Gigabit Ethernet ports dedicated for the WAN uplink

- 1x RJ45 / 2.5 Gigabit Ethernet port dedicated for the WAN uplink

- 1x RJ45 / 2.5 Gigabit Ethernet port with PoE+ capabilities dedicated for the WAN uplink

- 4x RJ45 / 1 Gigabit Ethernet LAN ports

- 2x SFP+ / 10 Gigabit Ethernet LAN ports

- 1x RJ45 management port for local status page access

- 1x USB 3.0 port

Context and Comparisons

	MX85	MX95	MX105
# 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	700 Mbps	2 Gbps	2.5 Gbps
PoE Capabilities	Yes, 1x RJ45 / 1 Gigabit Ethernet port (WAN)	Yes, 1x RJ45 / 2.5 Gigabit Ethernet port (WAN)	Yes, 1x RJ45 / 2.5 Gigabit Ethernet port (WAN)

Technical Breakdown

WAN Interface

MX85	**MX95/105**
2x dedicated 1 Gigabit Ethernet SFP	2x dedicated 10 Gigabit Ethernet SFP+
2x dedicated 1 Gigabit Ethernet RJ45	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	**MX95/105**
8x dedicated 1 Gigabit Ethernet RJ45	4x dedicated 1 Gigabit Ethernet RJ45
2x dedicated 1 Gigabit Ethernet SFP	2x dedicated 10 Gigabit Ethernet SFP+

Throughput and Capabilities

	MX85	**MX95**	**MX105**
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	700 Mbps	2 Gbps	2.5 Gbps

Physical

	MX85	**MX-95**	**MX105**
Mount Type	Rack mount	Rack mount	Rack mount
Dimensions	1.7 x 9.8 x 19 (in)	1.73 x 11.23 x 19 (in)	1.73 x 12.4 x 19 (in)

(h x d x w)	43.8 x 250 x 484.6 (mm)	44 x 285.2 x 484.6 (mm)	44 x 315 x 484.6 (mm)
Weight	8.2 lb (3.7 kg)	6.99 lbs (3.17 kg)	10.74 lbs (4.87 kg) 2 fans and 2 PSUs inserted
Input operating voltage	90-264 VAC (47-63 Hz)	100-127 VAC, 200-240 VAC (50/60 Hz)	100-127 VAC, 200-240 VAC (50/60 Hz)
PSU model number	N/A	N/A	Removable MA-PWR-150 W AC
Power load (idle/max)	12 W / 55 W	42 W/ 109 W	53 W/ 123 W
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-150WAC	1x Meraki MX105 power supply unit (PSU)
MA-PWR-CORD-US	1x AC power cable, U.S. 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-PWR-CORD-BR	1X AC power cable, BR 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. 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-ER	Single-moder fiber (SMF)
MA-SFP-10GB-ZR	Single-mode fiber (SMF)

Direct Attach

Product ID	Description
MA-CBL-TA-1M	10 GSFP+Cu, 1 m passive twinax
MA-CBL-TA-3M	10 GSFP+Cu, 3 m 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.