# 'disco' Meraki

## 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**

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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**

	<u>MX85</u>	<u>MX95</u>	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 / 1 Gigabit Ethernet port (WAN)	Yes, 1x RJ45 / 1 Gigabit Ethernet port (WAN)

## **Technical Breakdown**

#### **WAN Interface**

#### <u>MX85</u>

MX95/105

2x dedicated 1 Gigabit Ethernet SFP2x dedicated 10 Gigabit Ethernet SFP+2x dedicated 1 Gigabit Ethernet RJ452x 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 <u>WAN behavior on MX75/85/95/105</u> documentation.

#### **LAN Interface**

<u>MX85</u>	<u>MX95/105</u>
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**

	<u>MX85</u>	<u>MX95</u>	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**

	<u>MX85</u>	MX-95	<u>MX105</u>
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

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.