

Meraki MX Network Performance Benchmarks

	Branch MX-67	Branch Plus MX-75 (Planned)	Campus MX-85	Campus Plus MX-95 (Planned)	Campus Pro MX-105 (Planned)	Enterprise MX-250	Enterprise Plus MX-450	Enterprise Pro C8455-G2-MX (planned)
Stateful Firewall Throughput (RFC2544-1518 Byte)	700 Mbps	1 Gbps	1 Gbps	3 Gbps	5 Gbps	7.5 Gbps	10 Gbps	20 Gbps
NGFW Throughput (IPS-P)	300 Mbps	500 Mbps	500 Mbps	1.5 Gbps	2 Gbps	2 Gbps	5 Gbps	8 Gbps
VPN Throughput RFC2544 1400 Byte	400 Mbps	1 Gbps	1 Gbps	2.5 Gbps	3.5 Gbps	4 Gbps	6.5 Gbps	10 Gbps
Recommended Max Device Count	50	200	250	500	750	2,000	10,000	15,000
Max site-to-site VPN tunnels ¹	50	75	200	500	1,000	3,000	5,000	5,000
Recommended maximum site-to-site VPN tunnels ²	50	75	100	250	500	1,000	1,500	3,500
Recommended maximum client VPN tunnels	50	75	100	250	250	500	500	500
WAN failover ³	<5 sec							
Auto VPN tunnel failover ³	Sub-second							
Dynamic path selection ³	Sub-second							
WAN Interfaces	1 (2) x 1 GbE RJ45	1 x 1 Gigabit Ethernet SFP 2 x 1 Gigabit Ethernet RJ45	2 x 1 Gigabit E-net SFP ports 2 x RJ45/ 1 Gigabit E-net ports	2x dedicated 10 Gigabit E-net SFP+ 2x dedicated 2.5 Gigabit E-net RJ45	2x dedicated 10 Gigabit E-net SFP+ 2x dedicated 2.5 Gigabit E-net RJ45	2 x 10GbE SFP+ 1 x USB (cellular failover ⁵)	2 x 10GbE SFP+ 1 x USB (cellular failover ⁵)	2x SFP28 / 25 Gigabit Ethernet WAN Port
LAN Interfaces	4 (3) x GbE RJ45	10 x 1 Gigabit Ethernet RJ45	8 x RJ45 / 1 Gigabit Ethernet 2 x SFP / 1 Gigabit Ethernet	4x dedicated 1 Gb E-net RJ45 2x dedicated 10 Gb E-net SFP+	4x dedicated 1 Gb E-net RJ45 2x dedicated 10 Gb E-net SFP+	8 x GbE (RJ45) 8 x GbE (SFP) 8 x 10GbE (SFP+)	8 x GbE (RJ45) 8 x GbE (SFP) 8 x 10GbE (SFP+)	2x SFP+ 10 GbE 8x SFP / 1 GbE

Latest Updated 2/25/26

Current Firmware Version: MX 19.1x

using the recognized, industry-standard IXIA BreakingPoint testing software.

NOTES:

1 The maximum site-to-site VPN tunnels are based on lab testing scenarios where no client traffic is transferring over the VPN tunnels.

2 Recommended site-to-site VPN tunnels are based on lab testing scenarios with client traffic transferring over VPN tunnels.

3 Times for failover after failover criteria has been met

4 Since all security appliances support different throughputs based upon processing configurations (i.e. Layer-7 firewall, Intrusion Detection, etc.), the Sales Engineer is most capable for selecting the correct appliance for customer's specific requirements/ application

Always reference website for latest data:
https://documentation.meraki.com/MX/MX_Sizing_Information/MX_Sizing_Principles

Meraki MX Engineering Data

CVC Part #	MX Model info	WAN port info	LAN port info	Max Advanced Security Throughput (all security features enabled)	Max concurrent VPN tunnels	Max VPN throughput	Recommended clients	Power	Notes
43942	MX67	1 x RJ45 GigEthernet(Port#1) & 1 x USB (cellular LTE failover-requires separate cellular modem)	4 x RJ45 GigEthernet LAN ports (Ports#2-5) (note: Port#2 is dual purpose and can be converted to 2nd WAN port - leaving only 3 x RJ45 LAN ports)	300Mbps	50	300Mbps	50	single AC power (30W DC : AC Adapter shipped with the device converts AC to DC)	Desktop or wall mount only
43945	MX250	2 x 1GbE/10GbE SFP/SFP+ & 1 x USB (cellular failover-requires separate cellular modem)	24 x LAN ports: Port# 3-10 : RJ45 Port# 11-18 : SFP Port# 19-26 : SFP+	2Gbps	3,000	1Gbps	2,000	dual AC power (Modular 100-220V 50/60Hz AC 2 x 250WAC PSU)	19" rack mount / 1RU
46488	MX450	2 x 10GbE SFP+ & 1 x USB (cellular failover-requires separate cellular modem)	24 x LAN ports: Port# 3-10 : RJ45 Port# 11-18 : SFP Port# 19-26 : SFP+	4Gbps	5,000	2Gbps	10,000	dual AC power (Modular 100-220V 50/60Hz AC 2 x 250WAC PSU)	19" rack mount / 1RU
CVC Part #	Licensing Info								
43970	MERAKE MX67 ADVANCED SECURITY LICENSE AND SUPPORT, 3YR								
43943	MERAKE MX67 ADVANCED SECURITY LICENSE AND SUPPORT, 5YR								
43969	MERAKE MX250 ADVANCED SECURITY LICENSE AND SUPPORT, 3YR								
43944	MERAKE MX250 ADVANCED SECURITY LICENSE AND SUPPORT, 5YR								
46489	MERAKE MX450 ADVANCED SECURITY LICENSE AND SUPPORT, 3YR								
tbd	MERAKE MX450 ADVANCED SECURITY LICENSE AND SUPPORT, 5YR								