

Cisco Meraki MX250-HW

High-Capacity Campus & Data Center SD-WAN Security Appliance

DATASHEET

Product Overview: The Cisco Meraki MX250-HW is a high-density, rack-mountable security and SD-WAN appliance purpose-built for large enterprise campuses, corporate headquarters, and data center hub deployments. Supporting up to 2,000 recommended clients, it offers up to 7.5 Gbps firewall capacity, massive 10 GbE SFP+ LAN/WAN port density, dual hot-swappable 250W power supplies, and enterprise AutoVPN aggregation managed seamlessly via the Cisco Meraki Cloud Dashboard.

7.5 Gbps

MAX NAT FIREWALL

2 Gbps

ADVANCED SECURITY

4 Gbps

SITE-TO-SITE VPN

2,000

RECOMMENDED USERS

HARDWARE & INTERFACE SPECIFICATIONS

Interface Category	Specification Details
Dedicated WAN Ports	2× Dedicated 10 GbE SFP+ Fiber Uplinks
Dedicated LAN Interfaces	24 Ports Total: 8× 10 GbE SFP+ (Ports 19-26), 8× 1 GbE SFP (Ports 11-18), 8× 1 GbE RJ45
Cellular & Management Ports	1× USB 3.0 Port (Cellular failover), 1× RJ45 Dedicated Management Port
Power Redundancy	Dual Modular Hot-Swappable AC Power Supplies (2x MA-PWR-250WAC included)
Form Factor	1U Rack-Mountable (Heavy-duty 19" rack mounting kit included)

PERFORMANCE & SCALE

Max NAT Firewall Throughput	7,500 Mbps (7.5 Gbps)
Next-Gen Firewall (NGFW)	2,000 Mbps (2 Gbps NGFW / Content Filtering enabled)
NGFW + Detection (IPS/IDS)	3,000 Mbps (3 Gbps)
Site-to-Site AutoVPN Throughput	4,000 Mbps (4 Gbps)
Max Concurrent VPN Tunnels	3,000 Concurrent Tunnels

PHYSICAL & POWER CHARACTERISTICS

Dimensions (W × D × H)	483 mm × 440 mm × 44 mm (19.0" × 17.3" × 1.75") — Standard 1U Rack
Weight	7.3 kg (16.0 lbs) with dual PSUs and fan units installed
Power Supply Rating	Modular 100-240V, 50/60Hz AC (2× 250WAC PSUs)
Power Consumption	105W Idle / 190W Max Load

KEY SOFTWARE & ENTERPRISE CAPABILITIES

High-Density 10G SFP+ Core

Features 10× 10 GbE SFP+ optical ports for high-bandwidth WAN edge termination, core switch trunking, and server farm connections.

10G SFP+ Fabric

Data Center Hub

Enterprise AutoVPN Aggregation

Acts as an enterprise VPN concentrator orchestrating up to 3,000 concurrent AutoVPN site tunnels with sub-second failover.

3,000 Tunnels

Active-Active WAN

Next-Gen Threat Protection

Snort-based Intrusion Prevention System (IPS), Cisco Advanced Malware Protection (AMP) with Threat Grid, and URL content security.

Snort IPS

Cisco AMP

High Availability & Redundancy

Warm-spare High Availability (HA) pairing with automatic heartbeat monitoring, dual modular PSUs, and hot-swappable fan trays.

Dual 250W PSU

Warm Spare HA

LICENSING TIERS COMPARISON

Feature / Capability	Enterprise	Advanced Security	SD-WAN Plus
Cloud Management & L3/L7 Stateful Firewall	✓	✓	✓
AutoVPN Hub & SD-WAN Path Optimization	✓	✓	✓
Content Filtering & Cisco AMP Malware Defense	—	✓	✓
Snort IPS/IDS & Geo-IP Firewall Rules	—	✓	✓
Smart SaaS Pathing & ML Network Analytics	—	—	✓

ORDERING INFORMATION & ACCESSORIES

Part Number	Description
MX250-HW	Cisco Meraki MX250 Cloud-Managed Security Appliance
LIC-MX250-ENT-1Y	Cisco Meraki MX250 Enterprise License & Support (1 Year)
LIC-MX250-SEC-1Y	Cisco Meraki MX250 Advanced Security License & Support (1 Year)
MA-PWR-250WAC	Meraki 250W AC Modular Power Supply Unit (Replacement)
MA-FAN-18K	Meraki 18K RPM System Fan Tray for MX250
MA-SFP-10GB-SR	Cisco Meraki 10GBASE-SR SFP+ Transceiver Module

Warranty & Enterprise Support: The MX250-HW comes standard with Cisco Meraki's full lifetime hardware warranty featuring Advanced Next Business Day (NBD) shipment replacement, backed by 24x7 enterprise phone/cloud support and continuous automated firmware upgrades.