

Cisco Meraki MR57-HW

Cloud-Managed Wi-Fi 6E (802.11ax) Tri-Band Indoor Access Point

DATASHEET

Product Overview: The Cisco Meraki MR57-HW is an enterprise-grade cloud-managed Wi-Fi 6E access point engineered for ultra-high-density deployments, corporate campuses, and next-generation digital workspaces. Utilizing the newly opened 6 GHz spectrum alongside 2.4 GHz and 5 GHz bands, it features concurrent 4x4:4 MU-MIMO radios on all three bands, dual 5 Gbps Multigigabit uplinks with link aggregation (up to 10 Gbps), dedicated Air Marshal security scanning, and an integrated BLE/IoT radio to deliver up to 8.35 Gbps aggregate frame rate.

8.35 Gbps

TRI-RADIO FRAME RATE

Dual 5 GbE

MGIG UPLINK PORTS

6 GHz Wi-Fi 6E

UNCONGESTED SPECTRUM

4x4:4 Tri-Band

SPATIAL STREAMS

RADIO & WIRELESS SPECIFICATIONS

Radio Parameter	Specification Details
Tri-Band Access Radios	6 GHz 4x4:4 MU-MIMO 802.11ax 5 GHz 4x4:4 MU-MIMO 802.11ax 2.4 GHz 4x4:4 MU-MIMO 802.11ax
Dedicated Security Radio	Tri-band 2.4 GHz, 5 GHz, and 6 GHz real-time WIDS/WIPS, spectrum analytics & location tracking
IoT / Bluetooth Radio	2.4 GHz Bluetooth Low Energy (BLE) beaconing & scanning + USB 2.0 host expansion port (9.5W)
Max Data Rates	6 GHz: 4,804 Mbps 5 GHz: 2,402 Mbps 2.4 GHz: 1,147 Mbps (Combined 8.35 Gbps aggregate)
Antenna System	Integrated omni-directional antennas (4.5 dBi @ 2.4 GHz, 5.5 dBi @ 5 GHz, 5.5 dBi @ 6 GHz)

WI-FI 6E (802.11AX) & CHANNEL CAPABILITIES

Spectrum & Channels	Supports 2.4 GHz, 5 GHz, and 6 GHz (incorporating up to 1,200 MHz of clean 6 GHz spectrum and 160 MHz channels)
OFDMA & Modulation	DL/UL OFDMA, Target Wake Time (TWT), BSS Coloring, 1024-QAM across all three radio bands
MIMO & Beamforming	SU-MIMO & DL/UL MU-MIMO (4-stream tri-radio), Maximal Ratio Combining (MRC), Transmit Beamforming
High-Density Capacity	Optimized for high-concurrency environments (supports 200+ active user clients simultaneously)

INTERFACES & POWER SPECIFICATIONS

	2x 10G/10G/2.5G/5G BASE-T Multigigabit RJ45 (Supports LACP aggregation up to 10 Gbps)
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KEY SOFTWARE & WI-FI 6E CAPABILITIES

6 GHz Wi-Fi 6E Clean Spectrum

Unlocks up to 1,200 MHz of additional interference-free spectrum, providing 160 MHz ultra-wide channels for low-latency, high-bandwidth applications.

6 GHz Wi-Fi 6E160 MHz Channels

Dual 5G mGig Link Aggregation

Two 5 Gbps Multigigabit Ethernet uplinks provide port redundancy and combined throughput up to 10 Gbps, eliminating backhaul bottlenecks.

Dual 5 GbE10G LACP Trunk

Dedicated Air Marshal WIPS/WIDS

Dedicated 4th radio delivers continuous tri-band security scanning, wireless threat mitigation, rogue AP containment, and spectrum analysis.

Air MarshalTri-Band Scanning

Enterprise WPA3 Security & L7 DPI

Mandatory WPA3 encryption on 6 GHz, WPA3-Enterprise, 802.1X RADIUS, deep packet application inspection, and QoS traffic shaping.

WPA3-EnterpriseLayer 7 DPI

SECURITY & WIRELESS STANDARDS

Category	Standards & Features Supported
Encryption & Security Standards	WPA3-Personal, WPA3-Enterprise, WPA2-Enterprise, WPA3-Enhanced Open (OWE), TKIP, AES
Fast Roaming Protocols	802.11r Fast BSS Transition, 802.11k Neighbor Reports, 802.11v BSS Transition Management
Compliance & IEEE Standards	IEEE 802.11a/b/g/n/ac/ax, 802.1X, 802.11e QoS, 802.11i Security, 802.1Q VLAN Tagging
6 GHz Discovery & IoT	Preferred Scanning Channels (PSC), BLE Beaconing, Asset Tracking, USB 2.0 Host expansion

ORDERING INFORMATION & ACCESSORIES

Part Number	Description
MR57-HW	Cisco Meraki MR57 Cloud-Managed Wi-Fi 6E Tri-Band Access Point
LIC-ENT-1YR	Cisco Meraki Enterprise Cloud Controller License & Support (1 Year)
LIC-ENT-3YR	Cisco Meraki Enterprise Cloud Controller License & Support (3 Years)
MA-INJ-6	Cisco Meraki Multigigabit 802.3bt Power over Ethernet Injector
MA-PWR-50WAC	Meraki AC Adapter for MR57 Access Point (54V DC)

Warranty & Cloud Support: The MR57-HW includes Cisco Meraki's standard limited lifetime hardware warranty with Advanced Next Business Day (NBD) replacement, alongside 24x7 phone support and continuous automated cloud software upgrades provided under an active Meraki Enterprise subscription.