

Cisco Meraki MR44-HW

Cloud-Managed Wi-Fi 6 (802.11ax) Access Point with Multigigabit Ethernet

DATASHEET

Product Overview: The Cisco Meraki MR44-HW is a cloud-managed 4-radio 802.11ax (Wi-Fi 6) indoor access point designed for high-density enterprise deployments, school campuses, and corporate offices. Powered by a 2.5 Gbps Multigigabit Ethernet uplink, concurrent 4x4:4 (5 GHz) and 2x2:2 (2.4 GHz) MU-MIMO radios, dedicated WIDS/WIPS security scanning, and integrated Bluetooth Low Energy (BLE), it delivers up to 2.7 Gbps aggregate frame rate with cloud optimization.

2.7 Gbps

AGGREGATE MAX RATE

2.5 GbE

MULTIGIG UPLINK

4 Radios

2.4G / 5G / SCANNING / BLE

4x4:4 + 2x2:2

MU-MIMO STREAMS

RADIO & WIRELESS SPECIFICATIONS

Radio Parameter	Specification Details
Access Radios	5 GHz 4x4:4 MU-MIMO 802.11ax 2.4 GHz 2x2:2 MU-MIMO 802.11ax
Security & Spectrum Radio	2.4 GHz & 5 GHz dual-band WIDS/WIPS, spectrum analysis & location analytics
IoT / Bluetooth Radio	2.4 GHz Bluetooth Low Energy (BLE) radio with Beacon and BLE scanning support
Peak Data Rates	5 GHz: 2,402 Mbps 2.4 GHz: 287 Mbps (Combined 2.7 Gbps aggregate)
Antenna Elements	Integrated omni-directional antennas (5.1 dBi @ 2.4 GHz, 5.9 dBi @ 5 GHz)

WI-FI 6 (802.11AX) & LEGACY CAPABILITIES

OFDMA & Modulation	DL/UL OFDMA support, Target Wake Time (TWT), BSS Coloring, 1024-QAM
MIMO & Beamforming	SU-MIMO & DL/UL MU-MIMO, Maximal Ratio Combining (MRC), Transmit Beamforming
Channel Widths	20 / 40 MHz (2.4 GHz & 5 GHz), 80 MHz (5 GHz 802.11ac/ax)
Client Density	Supports up to 100+ active user devices per access point

INTERFACES & POWER REQUIREMENTS

Network Uplink Interface	1x 100/1000/2.5G BASE-T Ethernet RJ45 (Auto-negotiation)
Power Options	802.3at PoE+ (Full functionality) 802.3af PoE (Low power mode) 12V DC input
Power Consumption	30W Max (802.3at PoE+) 15W Max (802.3af low-power downshift)
Physical Dimensions	306 mm x 128.4 mm x 44.3 mm (12.05" x 5.06" x 1.74") Weight: 739 g (26.1 oz)
Operating Environment	Temperature: 0°C to 40°C (32°F to 104°F) Humidity: 5% to 95% non-condensing

KEY SOFTWARE & ENTERPRISE CAPABILITIES

Air Marshal WIDS / WIPS

Dedicated 3rd radio delivers 24x7 real-time security scanning, rogue AP detection, automatic containment, and RF anomaly mitigation.

Air Marshal

24/7 Scanning

Auto-RF & Spectrum Analytics

Cloud-based dynamic RF optimization automatically adjusts channels and power levels while providing real-time spectrum analysis charts.

Auto-RF

Spectrum View

Enterprise Access & Guest Wi-Fi

802.1X RADIUS integration, WPA3-Enterprise security, Active Directory sync, splash page guest portals, and isolated guest VLAN tagging.

WPA3-Enterprise

802.1X / AD

Layer 7 Traffic Control & QoS

Integrated Stateful Layer 7 application firewall, dynamic QoS prioritization for Voice/Video, and per-user bandwidth limit policies.

Layer 7 DPI

Application QoS

SECURITY & WIRELESS STANDARDS

Category	Standards & Features Supported
Encryption & Wireless Security	WPA3-Personal, WPA3-Enterprise, WPA2-Enterprise, WPA3-Enhanced Open (OWE), TKIP, AES
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
Location & BLE Analytics	High-density location tracking, BLE beaconing, Asset tracking via Meraki Dashboard APIs

ORDERING INFORMATION & ACCESSORIES

Part Number	Description
MR44-HW	Cisco Meraki MR44 Cloud-Managed Wi-Fi 6 Indoor 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-5-US	Cisco Meraki Multigigabit 802.3at Power over Ethernet Injector
MA-PWR-30W-US	Meraki AC Adapter for MR Access Points (12V DC)

Warranty & Cloud Support: The MR44-HW includes Cisco Meraki's standard limited lifetime hardware warranty with Advanced Next Business Day (NBD) replacement, alongside 24x7 phone support and continuous automated firmware updates provided with an active Meraki Enterprise licensing subscription.