







## Desktop and All-in-One Models

	MX67	MX67W	MX67C	MX68	MX68W	MX68CW
						
<b>Recommended Use Cases</b>	Small branch	Small branch	Small branch	Small branch	Small branch	Small branch
<b>Recommended Clients</b>	50	50	50	50	50	50
<b>Stateful Firewall Throughput</b>	450 Mbps	450 Mbps	450 Mbps	450 Mbps	450 Mbps	450 Mbps
<b>Advanced Security Throughput</b>	300 Mbps	300 Mbps	300 Mbps	300 Mbps	300 Mbps	300 Mbps
<b>Maximum site-to-site VPN Throughput</b>	200 Mbps	200 Mbps	200 Mbps	200 Mbps	200 Mbps	200 Mbps
<b>Maximum Concurrent site-to-site VPN Tunnels<sup>3</sup></b>	50	50	50	50	50	50
<b>WAN Interfaces Dedicated</b>	1 x GbE RJ45 1 x USB (cellular failover <sup>1</sup> )	1 x GbE RJ45 1 x USB (cellular failover <sup>1</sup> )	1 x GbE RJ45 1 x USB (cellular failover <sup>1</sup> ) 1 x Integrated CAT 6 LTE Cellular Modem (cellular failover)	2 x GbE RJ45 1 x USB (cellular failover <sup>1</sup> )	2 x GbE RJ45 1 x USB (cellular failover <sup>1</sup> )	2 x GbE RJ45 1 x USB (cellular failover <sup>1</sup> ) 1 x Integrated CAT 6 LTE Cellular Modem (cellular failover)
<b>Dual-purpose<sup>2</sup></b>	1 x GbE RJ45	1 x GbE RJ45	1 x GbE RJ45			
<b>LAN Interfaces Fixed</b>	4 x GbE RJ45	4 x GbE RJ45	4 x GbE RJ45	10 x GbE RJ45 (2 x PoE+)	10 x GbE RJ45 (2 x PoE+)	10 x GbE RJ45 (2 x PoE+)
<b>Web Caching</b>						
<b>Mounting</b>	Desktop or wall mount	Desktop or wall mount	Desktop or wall mount	Desktop or wall mount	Desktop or wall mount	Desktop or wall mount
<b>Dimensions (w x d x h)</b>	9.4" x 5.1" x 1.1" (239mm x 130mm x 27mm)	9.4" x 6.5" x 1.1" (239mm x 164mm x 27mm)	9.4" x 6.9" x 1.1" (239mm x 176mm x 27mm)	11.2" x 5.8" x 1.1" (284mm x 148mm x 27mm)	11.2" x 6.8" x 1.1" (284mm x 172mm x 27mm)	11.2" x 7" x 1.1" (284mm x 178mm x 27mm)
<b>Weight</b>	1.74 lb (0.7kg)	1.84 lb (0.83 kg)	1.87 lb (0.85 kg)	2.46 lb (1.12 kg)	2.55 lb (1.16 kg)	2.61 lb (1.18 kg)
<b>Power Supply</b>	30W DC	30W DC	30W DC	100W DC	100W DC	100W DC
<b>Power Load (idle/max)</b>	5W / 14W	15W / 23W	6W / 17W	11W / 79W	19W / 87W	19W / 89W
<b>Operating Temperature</b>	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
<b>Humidity</b>	5% to 95%	5% to 95%	5% to 95%	5% to 95%	5% to 95%	5% to 95%

<sup>1</sup> Requires separate cellular modem

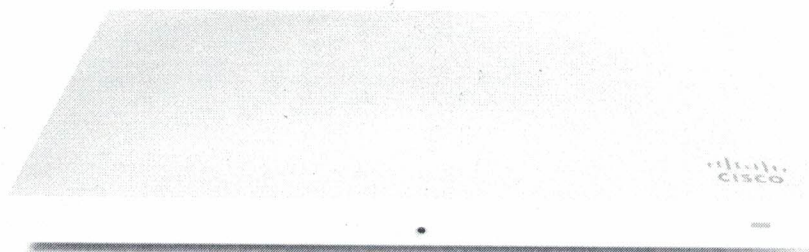
<sup>2</sup> Interface configurable for WAN or LAN use

<sup>3</sup> The maximum concurrent VPN tunnels are based on lab testing scenarios where no client traffic is transferring over the VPN tunnels. For information on recommended maximum concurrent site-to-site and client VPN tunnels, visit MX Sizing Guide.

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# MR42

Dual-band 802.11ac Wave 2 access point with separate radios  
dedicated to security, RF management, and Bluetooth



## High performance 802.11ac Wave 2 wireless

The Cisco Meraki MR42 is a four radio, cloud-managed 3x3 MU-MIMO 802.11ac Wave 2 access point. Designed for next-generation deployments in offices, schools, hospitals, shops, and hotels, the MR42 offers performance, security, and simple management.

The MR42 provides a maximum 1.9 Gbps frame rate with concurrent 802.11ac Wave 2 and 802.11n 3x3:3 MIMO radios. A dedicated third radio provides real-time WIDS/WIPS with automated RF optimization. In addition, an integrated fourth radio delivers Bluetooth Low Energy (BLE) scanning and Beacons functionality.

With a combination of cloud management, high performance hardware, multiple radios, and advanced software features, the MR42 makes an outstanding platform for the most demanding of uses today and tomorrow. These uses include high-density deployments and support for applications like voice and high-definition video.

## MR42 and Meraki cloud management: a powerful combination

Management of the MR42 is handled through the Meraki cloud, enabling rapid deployment across multiple sites without the need for time-consuming training or costly certifications. Since the

MR42 is self-configuring and managed over the web, it can be deployed at a remote location in a matter of minutes, even without on-site IT staff.

24/7 monitoring via the Meraki cloud delivers real-time alerts if the network encounters problems. Remote diagnostic tools enable immediate troubleshooting over the web, meaning multi-site, distributed networks can be easily managed.

The MR42's firmware is automatically kept up to date via the cloud. New features, bug fixes, and enhancements are delivered seamlessly over the web. This means no manual software updates to download or missing security patches to worry about.

## Product Highlights

- » 3x3:3 MU-MIMO 802.11ac Wave 2
- » 1.9 Gbps aggregate dual-band frame rate
- » 24x7 real-time WIDS/WIPS and spectrum analytics via dedicated third radio
- » Integrated Bluetooth Low Energy Beacon and scanning radio
- » Enhanced transmit power and receive sensitivity
- » Full-time WiFi location tracking via dedicated 3rd radio
- » Integrated enterprise security and guest access
- » Application-aware traffic shaping
- » Optimized for voice and video
- » Self-configuring, plug-and-play deployment
- » Sleek, low-profile design blends into office environments

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# Specifications

<b>Radios</b>
2.4 GHz 802.11b/g/n client access radio
5 GHz 802.11a/n/ac client access radio
2.4 GHz & 5 GHz dual-band WIDS/WIPS, spectrum analysis, & location analytics radio
2.4 GHz Bluetooth radio with Bluetooth Low Energy (BLE) and Beacon support
Concurrent operation of all four radios
Max aggregate frame rate 1.9 Gbit/s
Supported frequency bands (country-specific restrictions apply):
2.412-2.484 GHz
5.150-5.250 GHz (UNII-1)
5.250-5.350 GHz (UNII-2)
5.470-5.600, 5.660-5.725 GHz (UNII-2e)
5.725 -5.825 GHz (UNII-3)
<b>Antenna</b>
Integrated omni-directional antennas (5 dBi gain at 2.4 GHz, 5.5 dBi gain at 5 GHz)
Individual antenna elements for each radio
<b>802.11ac Wave 2 and 802.11n Capabilities</b>
3 x 3 multiple input, multiple output (MIMO) with three spatial streams
SU-MIMO and MU-MIMO support
Maximal ratio combining (MRC) & beamforming
20 and 40 MHz channels (802.11n), 20, 40, and 80 MHz channels (802.11ac)
Up to 256-QAM on both 2.4 GHz & 5 GHz
Packet aggregation
<b>Power</b>
Power over Ethernet: 37 - 57 V (802.3at required with functionality-restricted 802.3af mode supported)
Alternative 12 V DC input
Power consumption: 20W max (802.3at)
Power over Ethernet injector and DC adapter sold separately
<b>LED Indicators</b>
Multi color & multi function status indicator
<b>Interfaces</b>
1x 10/100/1000Base-T Ethernet (RJ45)
1x DC power connector (5.5 mm x 2.5 mm, center positive)

<b>Mounting</b>
All standard mounting hardware included
Desktop, ceiling, and wall mount capable
Ceiling tile rail (9/16, 15/16 or 1 1/2" flush or recessed rails), assorted cable junction boxes
Bubble level on mounting cradle for accurate horizontal wall mounting
<b>Physical Security</b>
Two security screw options (included)
Kensington lock hard point
Concealed mount plate with anti-tamper cable bay
<b>Environment</b>
Operating temperature: 32 °F to 104 °F (0 °C to 40 °C)
Humidity: 5 to 95% non-condensing
<b>Physical Dimensions</b>
10.0" x 6.1" x 1.5" (253.4 mm x 155.8 mm x 37.1 mm), not including deskmount feet or mount plate
Weight: 25 oz (0.7kg)
<b>Security</b>
Integrated Layer 7 firewall with mobile device policy management
Real-time WIDS/WIPS with alerting and automatic rogue AP containment with Air Marshal
Flexible guest access with device isolation
VLAN tagging (802.1q) and tunneling with IPsec VPN
PCI compliance reporting
WEP, WPA, WPA2-PSK, WPA2-Enterprise with 802.1X
EAP-TLS, EAP-TTLS, EAP-MSCHAPv2, EAP-SIM
TKIP and AES encryption
Enterprise Mobility Management (EMM) & Mobile Device Management (MDM) integration
<b>Quality of Service</b>
Advanced Power Save (U-APSD)
WMM Access Categories with DSCP and 802.1p support
Layer 7 application traffic identification and shaping
<b>Mobility</b>
PMK and OKC credential support for fast
Layer 2 roaming
Distributed or centralized layer 3 roaming

<b>Analytics</b>
Embedded location analytics reporting and device tracking
Global L7 traffic analytics reporting per network, per device, per application
<b>Warranty</b>
Lifetime hardware warranty with advanced replacement included
<b>Ordering Information</b>
MR42-HW: Meraki MR42 Cloud Managed 802.11ac AP
MA-PWR-30W-XX: Meraki AC Adapter for MR Series (XX = US, EU, UK or AU)
MA-INJ-4-XX: Cisco Meraki 802.3at Power over Ethernet Injector (XX = US, EU, UK or AU)

Note: Meraki access point license required.