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bouchecousue
conseil en informatique

BoucheCousue est une société de conseil en informatique basée à Paris et **revendeur agréé Cisco Meraki** depuis 2011.

Si vous avez des questions, un projet réseau pouvant bénéficier de la solution & des produits Cisco Meraki, **n'hésitez pas à nous contacter :**

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MR32

Dual-band 2x2 MIMO 802.11ac Access Point
with dedicated security and RF management radio
and Bluetooth low energy Beacon and scanning radio



High performance cloud-managed 802.11ac wireless

The Cisco Meraki MR32 is a three-radio, cloud-managed 2x2 MIMO 802.11ac access point. Designed for general purpose next-generation deployments in offices, schools, hospitals and hotels, the MR32 provides performance, security, and manageability.

The MR32 provides a maximum 1.2 Gbps data rate with concurrent 802.11ac and 802.11n 2x2:2 MIMO radios, and security and spectrum visibility via a third radio dedicated to 24x7 WIDS/WIPS and automated RF optimization. An integrated Bluetooth low energy (BLE) radio delivers Beacon functionality and BLE device scanning.

The combination of cloud management, 802.11ac, full-time RF environment scanning, and an integrated Bluetooth technology delivers the high throughput, reliability, and flexibility required by the most demanding business applications like voice and high-definition streaming video, both today and tomorrow.

MR32 and Meraki Cloud Management: A Powerful Combo

The MR32 is managed through the Meraki cloud, with an intuitive browser-based interface that enables rapid deployment without training or certifications. Since the MR32 is self-configuring and managed over the web, it can even be deployed at a remote location without on-site IT staff.

The MR32 is monitored 24x7 via the Meraki cloud, which delivers real-time alerts if the network encounters problems. Remote diagnostics tools enable real-time troubleshooting over the web, meaning multi-site, distributed networks can be managed remotely.

The MR32's firmware is always kept up to date from the cloud. New features, bug fixes, and enhancements are delivered seamlessly over the web, meaning no manual software updates to download or missing security patches to worry about.

Product Highlights

- 2x2 802.11ac, 1.2 Gbps aggregate dual-band data rate
- 24x7 real-time WIPS/WIDS and spectrum analytics via dedicated third radio
- Integrated Bluetooth low energy Beacon and scanning radio
- Enhanced transmit power and receive sensitivity
- Self-healing, zero-configuration mesh
- Integrated enterprise security and guest access
- Application-aware traffic shaping
- Self-configuring, plug-and-play deployment
- Sleek, low-profile design blends into office environments
- Optimized for voice and video

Features

Aggregate data rate of up to 1.2 Gbps

A 5 GHz 2x2:2 802.11ac radio and a 2.4 GHz 2x2:2 802.11n radio offer a combined aggregate dual-band data rate of 1.2 Gbps. Technologies like transmit beamforming and enhanced receive sensitivity allow the MR32 to support a higher client density than typical enterprise-class access points, resulting in fewer required APs for a given deployment. Band steering further enhances overall throughput, by moving 5 GHz-capable clients to the 5 GHz radio, maximizing the capacity in the 2.4 GHz range for older 802.11b/g clients.

Dedicated third radio delivers 24x7 wireless security and RF analytics

The MR32's sophisticated, dedicated dual-band third radio scans the environment continuously, characterizing RF interference and containing wireless threats like rogue access points. No more need to choose between wireless security, advanced RF analysis, and serving client data: a dedicated third radio means that all three occur in real-time, without any impact to client traffic or AP throughput.

Bluetooth low energy Beacon and scanning

An integrated Bluetooth low energy radio provides seamless deployment of BLE Beacon functionality and effortless visibility of BLE devices within range of the AP. The MR32 enables the next generation of location-aware applications and engagement right out of the box.

Automatic cloud-based RF optimization

The MR32's sophisticated, automated RF optimization means that there is no need for the dedicated hardware and RF expertise typically required to tune a wireless network. The real-time full-spectrum RF analysis data collected by the dedicated third radio is continuously fed back to the Meraki cloud. The Meraki cloud then automatically tunes the MR32's channel selection, transmit power, and client connection settings for optimal performance under the most challenging RF conditions.

Secure wireless environments using 24x7 Air Marshal

No longer choose between a wireless intrusion prevention system (WIPS) and serving client data: thanks to the dedicated third radio, Air Marshal, a highly optimized built-in WIPS, scans continuously for threats and remediates them as commanded, all without disrupting client service. Alarms and optional auto-containment of rogue APs are configured via flexible remediation policies, ensuring optimal security and performance in even the most challenging wireless environments.

Integrated enterprise security and guest access

The MR32 features integrated, easy-to-use security technologies to provide secure connectivity for employees and guests alike. Advanced security features such as AES hardware-based

encryption and WPA2-Enterprise authentication with 802.1X and Active Directory integration provide wire-like security while still being easy to configure. One-click guest isolation provides secure, Internet-only access for visitors. Our policy firewall (Identity Policy Manager) enables group or device-based, granular access policy control. Meraki Teleworker VPN makes it easy to extend the corporate LAN to remote sites, without requiring all clients and devices to have client VPN software. PCI compliance reports check network settings against PCI requirements to simplify secure retail deployments.

Application-aware traffic shaping

The MR32 includes an integrated layer 7 packet inspection, classification, and control engine, enabling you to set QoS policies based on traffic type. Also included is integrated support for Wireless Multi Media (WMM), 802.1p, and DSCP. Prioritize your mission critical applications, while setting limits on recreational traffic, e.g., peer-to-peer and video streaming.

Low-profile, environmentally friendly design

Despite its robust feature set, the MR32 is packaged in a sleek, low-profile enclosure that blends seamlessly into any environment. Energy-saving components and intelligent power management techniques deliver best-in-class energy efficient performance and mean that pollution, material utilization, and your electric bill are kept to a minimum.

High performance mesh

The MR32's advanced mesh technologies, like multi-channel routing protocols and multiple gateway support, make it possible to cover hard-to-wire areas and improve network resilience. In the event of a switch or cable failure, the MR32 will automatically revert to mesh mode.

Self-configuring, self-optimizing, self-healing

When plugged in, the MR32 automatically connects to the Meraki cloud, downloads its configuration, and joins the appropriate network. The MR32 then self-optimizes, determining the ideal channel, transmit power, and client connection parameters. As necessary, it will also self-heal, responding automatically to switch failures and other errors.

Specifications

Radios

One 2.4 GHz 802.11b/g/n, one 5 GHz 802.11a/n/ac, one dedicated for dual-band WIPS & spectrum analysis, and one dedicated to Bluetooth Low Energy

Concurrent operations of all four radios

Max data rate 1.2 Gbit/s

Operating bands:

FCC (US)	CE (Europe)
2.412-2.484 GHz	2.412-2.484 GHz
5.150-5.250 GHz (UNII-1)	5.150-5.250 GHz (UNII-1)
5.725 -5.825 GHz (UNII-3)	5.250-5.350 GHz (UNII-2)
	5.470-5.600, 5.660-5.725 GHz (UNII-2e)

802.11ac and 802.11n Capabilities

2 x 2 multiple input, multiple output (MIMO) with two spatial streams

Maximal ratio combining (MRC)

Beamforming

20 and 40 MHz channels (802.11n), 20, 40, and 80 MHz channels (802.11ac)

Packet aggregation

Power

Power over Ethernet: 37 - 57 V (802.3af compatible)

12 V DC

Power consumption: 13.87W max (802.3af)

Power over Ethernet injector and DC adapter sold separately

Mounting

All standard mounting hardware included

Desktop and wall mount

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

Physical Security

Two included security screw options

Kensington lock hard point

Anti-tamper cable bay

Concealed mount plate

Environment

Operating temperature: 32 °F to 104 °F (0 °C to 40 °C)

Humidity: 5 to 95% non-condensing

Physical Dimensions

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)

Antenna

Integrated omni-directional antennas

Interfaces

1x 100/1000Base-T Ethernet (RJ45)

1x DC power connector (5 mm x 2.1 mm, center positive)

Security

Integrated policy firewall (Identity Policy Manager)

Mobile device policies

Air Marshal: Real-time WIPS (wireless intrusion prevention system) with alarms

Rogue AP containment

Guest isolation

Teleworker VPN with IPsec

PCI compliance reporting

WEP, WPA, WPA2-PSK, WPA2-Enterprise with 802.1X

TKIP and AES encryption

VLAN tagging (802.1q)

Quality of Service

Advanced Power Save (U-APSD)

DSCP

802.1p

Layer 7 application traffic shaping and firewall

Mobility

PMK and OKC credential support for fast Layer 2 roaming

802.11r and 802.11k

Layer 3 roaming

LED Indicators

2 Ethernet status

1 power/booting/firmware upgrade status

Regulatory

RoHS

For additional country-specific regulatory information, please contact Meraki sales

Warranty

Lifetime hardware warranty with advanced replacement included

Ordering Information

MR32-HW: Meraki MR32 Cloud Managed 802.11ac AP

AC-MR-1-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)

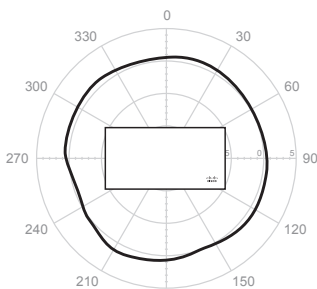
Note: Meraki Enterprise license required.

RF Performance Table

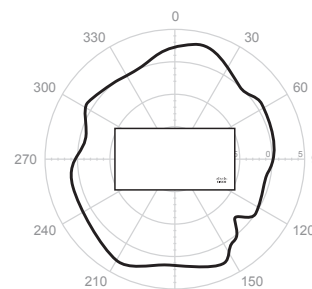
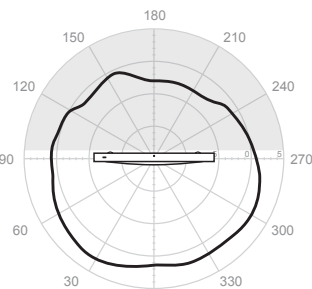
Operating Band	Operating Mode	Data Rate	TX Power	RX Sensitivity
2.4 GHz	802.11b	11 Mb/s	19 dBm	-84
2.4 GHz	802.11g	6 Mb/s	17 dBm	-87
		54 Mb/s	17 dBm	-70
2.4 GHz	802.11n (HT20)	MCS0/8/16 HT20	18 dBm	-85
		MCS7/15/23 HT20	15 dBm	-67
2.4 GHz	802.11n (HT40)	MCS0/8/16 HT40	18 dBm	-83
		MCS7/15/23 HT40	15 dBm	-63
5 GHz	802.11a	6 Mb/s	20 dBm	-92
		54 Mb/s	18 dBm	-73
5 GHz	802.11n (HT20)	MCS0/8/16 HT20	20 dBm	-90
		MCS7/15/23 HT20	17 dBm	-70
5 GHz	802.11n (HT40)	MCS0/8/16 HT40	20 dBm	-87
		MCS7/15/23 HT40	17 dBm	-68
5 GHz	802.11ac (HT80)	VHT-MCS0/8/16 HT80	20 dBm	-84
		VHT-MCS9/15/23 HT80	15 dBm	-58

* Maximum hardware capability shown above. Transmit power is configurable in increments of 1 dB and is automatically limited to comply with local regulatory settings.

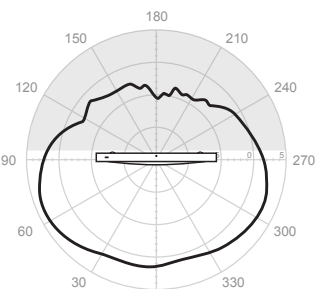
Signal Coverage Patterns



2.4 GHz



5.0 GHz





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En autonomie:

- **Webinar** : Participez à un webinar Cisco Meraki en cliquant [ici](#) et recevez ultérieurement un équipement gratuit¹ (comme une borne WiFi, un switch)
- **Try & Buy** : Essayez le matériel Cisco Meraki gratuitement en cliquant [ici](#). A la fin de votre essai vous pouvez décider de garder & acheter le matériel ou le renvoyer.

Avec notre accompagnement:

Contactez-nous par téléphone (+33 1 83 62 52 34) ou par email à hello@bouhecousue.com en nous précisant votre projet. Nous pourrions choisir ensemble le matériel adapté à votre besoin et vous le faire essayer.

Retrouvez aussi nos coordonnées postales sur cette page : <https://bouhecousue.com/contact/> si vous souhaitez convenir d'un rendez-vous.

¹ Nécessite l'éligibilité à des critères définis par Cisco Meraki, vérifiez que vous êtes éligible sur le site de Cisco Meraki