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- › **Meraki MR46 Indoor Wi-Fi 6 802.11ax Access Point (MR46-HW) User Manual**

CISCO DESIGNED MR46

Meraki MR46 Indoor Wi-Fi 6 802.11ax Access Point User Manual

Model: MR46-HW

1. INTRODUCTION

The Meraki MR46 is a cloud-managed 4x4:4 802.11ax access point designed for high-performance wireless networks. It offers high throughput, enterprise-grade security, and simplified management, making it suitable for demanding environments such as offices, schools, hospitals, shops, and hotels.

This access point provides a maximum aggregate frame rate of 3.5 Gbps across concurrent 2.4 GHz and 5 GHz radios. It includes a dedicated third radio for real-time Wireless Intrusion Detection System/Wireless Intrusion Prevention System (WIDS/WIPS) with automated RF optimization, and a fourth integrated radio for Bluetooth scanning and beaconing.



Figure 1: Front view of the Meraki MR46 Access Point, showcasing its sleek, white design with the Cisco Meraki logo.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- Meraki MR46 Access Point (Hardware Only)

4. OPERATING THE MERAKI MR46

4.1 LED Indicator

The MR46 features an LED indicator on its front panel to provide status information:

- **Solid White:** Device is powered on and connected to the Meraki cloud.
- **Flashing White:** Device is booting up or attempting to connect to the Meraki cloud.
- **Solid Amber:** Device is powered on but cannot connect to the Meraki cloud.
- **Flashing Amber:** Device is experiencing a hardware fault.



Figure 3: Front view of the Meraki MR46 Access Point, highlighting the small LED indicator light.

4.2 Wireless Functionality

The MR46 supports Wi-Fi 6 (802.11ax) across both 2.4 GHz and 5 GHz bands, providing high-speed and efficient wireless connectivity. It also includes advanced features:

- **WIDS/WIPS:** A dedicated security radio continuously monitors the airwaves for threats and optimizes RF performance.
- **Bluetooth:** An integrated Bluetooth radio enables scanning and beaconing functionalities for location-based services and asset tracking.

5. MAINTENANCE

The Meraki MR46 is designed for minimal maintenance, primarily managed through the cloud dashboard.

- **Firmware Updates:** Firmware updates are delivered seamlessly and automatically through the Meraki cloud, ensuring your device always runs the latest software with security patches and new features.
- **Cleaning:** Periodically wipe the exterior of the access point with a soft, dry cloth to remove dust. Do not use liquid cleaners or aerosols.
- **Environmental Conditions:** Ensure the device operates within its specified temperature and humidity ranges to prevent damage and ensure optimal performance.

6. TROUBLESHOOTING

If you encounter issues with your Meraki MR46, consider the following troubleshooting steps:

- **No Power/LED Off:** Ensure the Ethernet cable is securely connected to both the MR46 and the PoE source. Verify the PoE source is active and providing power (802.3at).
- **LED Flashing White (Stuck):** The device may be having trouble connecting to the Meraki cloud. Check your internet connection and firewall settings to ensure outbound access to Meraki cloud services.
- **LED Solid Amber:** The device is powered but cannot reach the Meraki cloud. Verify network connectivity, DNS resolution, and firewall rules.
- **Poor Wi-Fi Performance:** Check the Meraki dashboard for channel utilization, interference, and client distribution. Consider adjusting Wi-Fi channels or power settings.
- **Device Not Appearing in Dashboard:** Confirm the serial number was correctly added to your Meraki network. Ensure

the device has power and network connectivity.

For further assistance, refer to the Meraki documentation or contact Meraki support through your dashboard.

7. SPECIFICATIONS

Feature	Detail
Model Number	MR-46 (HW)
Wi-Fi Standard	802.11ax (Wi-Fi 6)
Radios	2.4 GHz, 5 GHz, Dual-band WIDS/WIPS, Bluetooth
MIMO Configuration	4x4:4 UL/DL MU-MIMO
Aggregate Frame Rate	Up to 3.5 Gbps
Ethernet Port	1 x 2.5 Gbps Multigigabit Ethernet
Power over Ethernet (PoE)	802.3at compatible
Dimensions (L x W x H)	12.05" x 5.06" x 1.74" (30.6 cm x 12.84 cm x 4.43 cm)
Weight	28.21 oz (0.8 kg)
Management	Cloud-managed (Meraki Dashboard)

8. WARRANTY AND SUPPORT

For warranty information, please refer to the official Cisco Meraki warranty policy available on their website or through your authorized reseller. Technical support for the Meraki MR46 is provided through the Meraki cloud dashboard, requiring an active cloud license.

To access support, log in to your Meraki dashboard and navigate to the 'Help' section. You can find documentation, community forums, and options to open a support case.