

Cisco Meraki MR33-HW

Cisco Meraki MR33 Access Point User Manual

Comprehensive guide for setup, operation, and maintenance of your Cisco Meraki MR33 Access Point.

1. INTRODUCTION

The Cisco Meraki MR33 is a high-performance, cloud-managed 802.11ac Wave 2 access point designed for demanding business environments. It features a quad-radio design, including concurrent 2.4 GHz and 5 GHz radios, a dedicated security radio for WIDS/WIPS, and an integrated Bluetooth Low Energy (BLE) radio for beaconing and scanning. This manual provides essential information to help you set up, operate, and maintain your MR33 access point.

2. PRODUCT OVERVIEW

The MR33 combines advanced hardware with Meraki's intuitive cloud management platform to deliver robust wireless connectivity and network visibility.



This image displays the Cisco Meraki MR33 Access Point from a top-down perspective. The device is white, rectangular, and features a minimalist design. The Cisco logo is visible on the right side, and a small blue LED indicator is present on the front edge, indicating operational status.

Key Features:

- Quad-radio design with concurrent 2.4 GHz and 5 GHz operation.
- 802.11ac Wave 2 with MU-MIMO support for high-density environments.

- Dedicated third radio for real-time Wireless Intrusion Detection System/Prevention System (WIDS/WIPS) and automated RF optimization.
- Integrated Bluetooth Low Energy (BLE) radio for beaconing and scanning capabilities.
- Cloud-managed for simplified deployment, monitoring, and troubleshooting.
- Maximum 1.3 Gbps aggregate frame rate.

3. SETUP

Follow these steps for the initial setup of your Cisco Meraki MR33 Access Point.

1. **Unpack the Device:** Carefully remove the MR33 access point and any included accessories from its packaging. Ensure all components listed in the "What's in the Box" section are present.
2. **Mounting (Optional):** The MR33 can be mounted on a wall or ceiling. Refer to the separate mounting guide for detailed instructions and hardware requirements.
3. **Connect Power:**
 - If using Power over Ethernet (PoE), connect an Ethernet cable from a PoE-enabled switch or injector to the Ethernet port on the MR33.
 - If using a DC power adapter (sold separately), connect the adapter to the DC power jack on the MR33 and plug it into a power outlet.
4. **Connect to Network:** Connect an Ethernet cable from your network switch or router to the Ethernet port on the MR33. This connection provides both data and, if using PoE, power.
5. **Cloud Provisioning:**
 - Ensure the MR33 has an active internet connection.
 - The device will automatically connect to the Meraki cloud and download its configuration. This process may take several minutes.
 - Monitor the LED indicator on the device. A solid blue LED typically indicates successful connection and operation.
6. **Access Meraki Dashboard:** Log in to your Meraki dashboard (dashboard.meraki.com) to configure and manage your MR33 access point.

4. OPERATING

Once set up, the Cisco Meraki MR33 operates as a fully cloud-managed wireless access point. Its primary function is to provide robust Wi-Fi connectivity and advanced network services.

Wireless Connectivity:

- **Dual-Band Wi-Fi:** The MR33 broadcasts Wi-Fi signals on both 2.4 GHz and 5 GHz frequencies, supporting 802.11a/b/g/n/ac standards.
- **MU-MIMO:** Multi-User, Multiple Input, Multiple Output technology allows the access point to communicate with multiple client devices simultaneously, improving network efficiency and performance.
- **SSID Configuration:** Wireless networks (SSIDs) are configured and managed entirely through the Meraki cloud dashboard, allowing for centralized control over security, VLAN tagging, and bandwidth limits.

Advanced Features:

- **WIDS/WIPS:** The dedicated security radio continuously scans the environment for rogue access points and wireless threats, providing real-time protection without impacting client throughput.

- **RF Optimization:** Automated RF optimization ensures optimal channel selection and power levels for the best wireless performance.
- **Bluetooth Low Energy (BLE):** The integrated BLE radio supports beaconing for location-based services and scanning for asset tracking or proximity-based applications.

All operational settings, monitoring, and reporting are accessible via the Meraki cloud dashboard, providing a comprehensive view of your wireless network.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Cisco Meraki MR33 Access Point.

- **Firmware Updates:** Meraki devices automatically receive firmware updates from the cloud. Ensure your device has a stable internet connection to receive these critical updates, which include new features, performance improvements, and security patches. You can schedule update windows via the Meraki dashboard.
- **Physical 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 access point is operating within its specified temperature and humidity ranges. Avoid placing it in direct sunlight or near heat sources.
- **Network Monitoring:** Regularly check the Meraki dashboard for device status, client connectivity, and network performance metrics to identify and address potential issues proactively.

6. TROUBLESHOOTING

If you encounter issues with your Cisco Meraki MR33 Access Point, refer to the following common troubleshooting steps.

Problem	Possible Cause	Solution
Device LED is off	No power or power issue.	• Verify power connection (PoE or DC adapter). • Check power source (PoE switch, injector, or wall outlet). • Try a different Ethernet cable or power adapter.
Device LED is amber/flashing	Connecting to cloud or firmware update in progress.	• Wait for the device to connect (may take several minutes). • Ensure internet connectivity for the device. • Check firewall rules if the device cannot reach Meraki cloud.
Clients cannot connect to Wi-Fi	Incorrect Wi-Fi settings, network issues, or device not broadcasting.	• Verify SSID and password in Meraki dashboard. • Check if the SSID is enabled and broadcasting. • Ensure the access point has a valid IP address and network connectivity. • Check for any client device issues (e.g., Wi-Fi adapter disabled).

Problem	Possible Cause	Solution
Slow Wi-Fi performance	Interference, channel congestion, or poor signal strength.	• Check Meraki dashboard for RF interference or channel utilization. • Consider adjusting channel settings or power levels (usually automated by Meraki). • Ensure optimal placement of the access point. • Verify client device capabilities (e.g., 802.11ac support).

For more detailed troubleshooting or advanced issues, please refer to the official Meraki documentation available through your Meraki dashboard or the Meraki support website.

7. SPECIFICATIONS

Key technical specifications for the Cisco Meraki MR33 Access Point.

Model Name	MR33-HW
Wireless Communication Standard	802.11ac Wave 2
Frequency	2.4 GHz, 5 GHz (Concurrent)
Connectivity Technology	Ethernet, Bluetooth
Special Feature	Wireless, Cloud-Managed, MU-MIMO, WIDS/WIPS, BLE
Included Components	1 Cisco Meraki MR33 switch (Access Point)
Recommended Uses	Business, Offices, Schools, Hospitals, Shops, Hotels
Color	White Access Point MR33 Meraki

8. WARRANTY AND SUPPORT

This Cisco Meraki MR33 Access Point is a renewed product. Please review the warranty and support information carefully.

Amazon Renewed Guarantee:

As an Amazon Renewed product, this device has been professionally inspected and tested to work and look like new by Amazon-qualified suppliers. If you are not satisfied with your purchase, renewed products are eligible for replacement or refund under the [Amazon Renewed Guarantee](#). This typically includes a 90-day return policy for refund or replacement.

Technical Support:

For technical support related to the Meraki cloud platform or device functionality, please refer to the official Cisco Meraki support resources. Access to Meraki support and documentation is typically provided through your Meraki dashboard account. For issues related to your Amazon Renewed purchase, please contact Amazon customer service.

