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Cisco C9130AXI-B Wireless Access Point - WiFi 6 User Manual

Model: C9130AXI-B | Brand: Cisco

INTRODUCTION

The Cisco Catalyst 9130AX Series Access Point is an enterprise-grade wireless solution designed to meet current and future networking demands. This device leverages Wi-Fi 6 technology to provide high-performance, secure, and reliable wireless connectivity. This manual provides essential information for the proper installation, operation, and maintenance of your Cisco C9130AXI-B Access Point.



Image: Top-down view of the Cisco C9130AXI-B Wireless Access Point, showing its compact, white design with the Cisco logo.

PRODUCT FEATURES

- **Wi-Fi 6 Technology:** Designed to fully utilize Wi-Fi 6 capabilities, enhancing network efficiency and speed.
- **High-Speed Connectivity:** Supports 1/2.5/5GBase-T Ethernet for robust wired connections.
- **Secure Wireless:** Implements WPA2-Enterprise and WPA3 security protocols for advanced data protection.
- **Dual-Band Operation:** Operates on both 2.4 GHz and 5 GHz frequency bands for flexible and wide-ranging coverage.
- **Integrated Antennas:** Features internal antennas for a streamlined and compact design.
- **Fast Data Transfer:** Capable of data transfer rates up to 1000 megabits per second.
- **Centralized Management:** Compatible with Switch controller types for simplified network administration.
- **Management Ports:** Includes 1 x 1/2.5/5GBase-T (UPOE) - RJ-45 and a management USB 2.0 port.

SETUP

Follow these steps for initial installation and configuration of your access point.

Package Contents

Verify that all components are present:

- Cisco C9130AXI-B Wireless Access Point
- Mounting bracket (if included)
- Documentation (Quick Start Guide, Safety Information)

Mounting the Access Point

The Cisco C9130AXI-B is designed for flexible deployment.

1. **Select a Location:** Choose a central location free from obstructions for optimal Wi-Fi coverage. Avoid placing near large metal objects or sources of electromagnetic interference.
2. **Secure Mounting Bracket:** Attach the appropriate mounting bracket (ceiling or wall) using suitable hardware (not included).
3. **Attach Access Point:** Align the access point with the mounting bracket and secure it in place.

Connecting Power and Network

1. **Ethernet Connection:** Connect an Ethernet cable from your network switch (preferably one supporting Power over Ethernet - UPOE) to the 1/2.5/5GBase-T (UPOE) RJ-45 port on the access point.
2. **Power On:** If using UPOE, the device will power on automatically. If not, connect a compatible power adapter (sold separately) to the access point's power input.
3. **Indicator Lights:** Observe the LED indicators on the access point. Refer to the "Operating Instructions" section for LED status meanings.

Initial Configuration

For initial configuration, connect to the access point via its management interface. This typically involves:

1. Connecting a computer directly to the access point's management port or to the same network segment.
2. Accessing the device's web-based management interface via a web browser using its default IP address (refer to the Quick Start Guide for default IP and credentials).
3. Following the on-screen prompts to set up basic network parameters, Wi-Fi SSIDs, and security settings.

OPERATING INSTRUCTIONS

Once installed and configured, the Cisco C9130AXI-B operates automatically to provide wireless connectivity.

LED Indicators

The LED indicator on the access point provides status information:

- **Solid Green:** Device is powered on and operating normally.
- **Flashing Green:** Device is booting up or performing a firmware upgrade.
- **Solid Amber:** Device is in a warning state or requires attention.
- **Flashing Amber:** Device is experiencing a fault or error.
- **Off:** Device is powered off or LED is disabled.

Connecting Wireless Devices

To connect a wireless device (e.g., laptop, smartphone) to the access point:

1. On your device, search for available Wi-Fi networks.
2. Select the SSID (network name) configured on your Cisco C9130AXI-B.
3. Enter the network password (WPA2/WPA3 key) when prompted.
4. Once connected, your device will have internet access through the access point.

Management Interface

Advanced settings and monitoring can be accessed through the web-based management interface.

1. Open a web browser and enter the IP address of the access point.
2. Log in with your administrator credentials.
3. From the interface, you can manage SSIDs, security settings, view connected clients, update firmware, and perform diagnostics.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your access point.

Firmware Updates

Periodically check the Cisco support website for new firmware versions. Firmware updates often include performance improvements, security patches, and new features.

1. Download the latest firmware from the official Cisco website.
2. Access the access point's management interface.
3. Navigate to the firmware update section and follow the instructions to upload and install the new firmware.
4. **Important:** Do not power off the device during a firmware update.

Cleaning

Keep the access point clean to prevent dust buildup, which can affect performance.

- Use a soft, dry cloth to wipe the exterior.
- Do not use liquid cleaners or abrasive materials.
- Ensure ventilation openings are clear of dust.

Environmental Considerations

Ensure the access point operates within its specified environmental conditions (temperature, humidity) to prevent damage.

TROUBLESHOOTING

This section addresses common issues you might encounter.

No Power / Device Not Turning On

- **Check Power Source:** Ensure the Ethernet cable is securely connected to a UPOE-enabled switch port, or that the power adapter (if used) is properly connected and plugged into a working outlet.
- **Verify UPOE:** Confirm that the switch port provides UPOE power.

No Wi-Fi Signal

- **Check LED Status:** Verify the LED indicator is solid green. If not, refer to "No Power" or "LED Indicators" sections.
- **Configuration:** Ensure the Wi-Fi SSIDs are enabled and correctly configured in the management interface.
- **Antenna Orientation:** While internal, ensure the device is not obstructed by large metal objects.
- **Reboot:** Power cycle the access point by disconnecting and reconnecting its power source.

Slow Wi-Fi Speed

- **Interference:** Check for potential sources of interference (e.g., microwaves, cordless phones, other Wi-Fi networks).
- **Channel Selection:** In the management interface, try changing the Wi-Fi channels to less congested ones.
- **Client Devices:** Ensure client devices support Wi-Fi 6 for optimal performance.
- **Network Load:** High network traffic can reduce speeds.

Unable to Access Management Interface

- **IP Address:** Verify you are using the correct IP address for the access point.
- **Network Connection:** Ensure your computer is on the same network segment as the access point.
- **Firewall:** Temporarily disable any firewalls on your computer that might be blocking access.
- **Default Credentials:** If you forgot your password, you might need to perform a factory reset (refer to the Quick Start Guide for reset procedures, as this will erase all configurations).

SPECIFICATIONS

Feature	Detail
Model	C9130AXI-B
Brand	Cisco
Product Dimensions	10.8 x 8.9 x 1.88 inches
Item Weight	4.75 pounds
Connectivity Technology	Wireless
Wireless Communication Standard	2.4 GHz Radio Frequency, 5 GHz Radio Frequency (Wi-Fi 6)
Frequency Band Class	Dual-Band
Data Transfer Rate	Up to 1000 Mbps
Antenna Type	Fixed Internal
Security Protocol	WPA2-Enterprise, WPA3
Ethernet Ports	1 x 1/2.5/5GBase-T (UPOE) - RJ-45
Management Ports	USB 2.0
Compatible Devices	Laptop (and other Wi-Fi enabled devices)
Manufacturer	CISCO SYSTEMS - ENTERPRISE
Date First Available	September 8, 2020

WARRANTY AND SUPPORT

Information regarding product warranty and specific support contacts is not available within this document. Please refer to the official Cisco website or your product's packaging for detailed warranty terms and technical support options.