ARUBA AP-124

ARUBA AP-124 Wireless Access Point User Manual

Model: AP-124

1. Introduction

This manual provides essential information for the installation, configuration, and maintenance of the ARUBA AP-124 Wireless Access Point. The AP-124 is an 802.11n indoor access point designed for high-density environments, featuring dual 3x3:2 MIMO radios (2.4GHz / 5GHz) with external antenna interfaces and dual 100/1000BASE-T Ethernet interfaces with Power over Ethernet (PoE) support. Please note that this model requires an Aruba Controller for operation.

2. Safety Information

Please read all safety warnings and instructions before installing or operating this device. Keep this manual for future reference.

- Ensure proper grounding for all electrical connections.
- Do not expose the device to moisture or extreme temperatures.
- Only use power supplies and cables approved by ARUBA.
- Installation should be performed by qualified personnel.
- This device requires an Aruba Controller for functionality.

3. Package Contents

Verify that your package contains the following items:

- ARUBA AP-124 Wireless Access Point
- Mounting bracket (if included with your specific kit)
- Documentation (Quick Start Guide, Safety and Regulatory Information)
- *Note: Antennas and an Aruba Controller are sold separately and are required for full functionality.*

4. Physical Overview

Familiarize yourself with the physical components and interfaces of the AP-124.

Figure 4.1: Top/Bottom View of ARUBA AP-124. This image displays the device's casing with ventilation slots and product identification markings. The serial number AJ0261294 and MAC address 00246CCE3C1C are visible on a label.

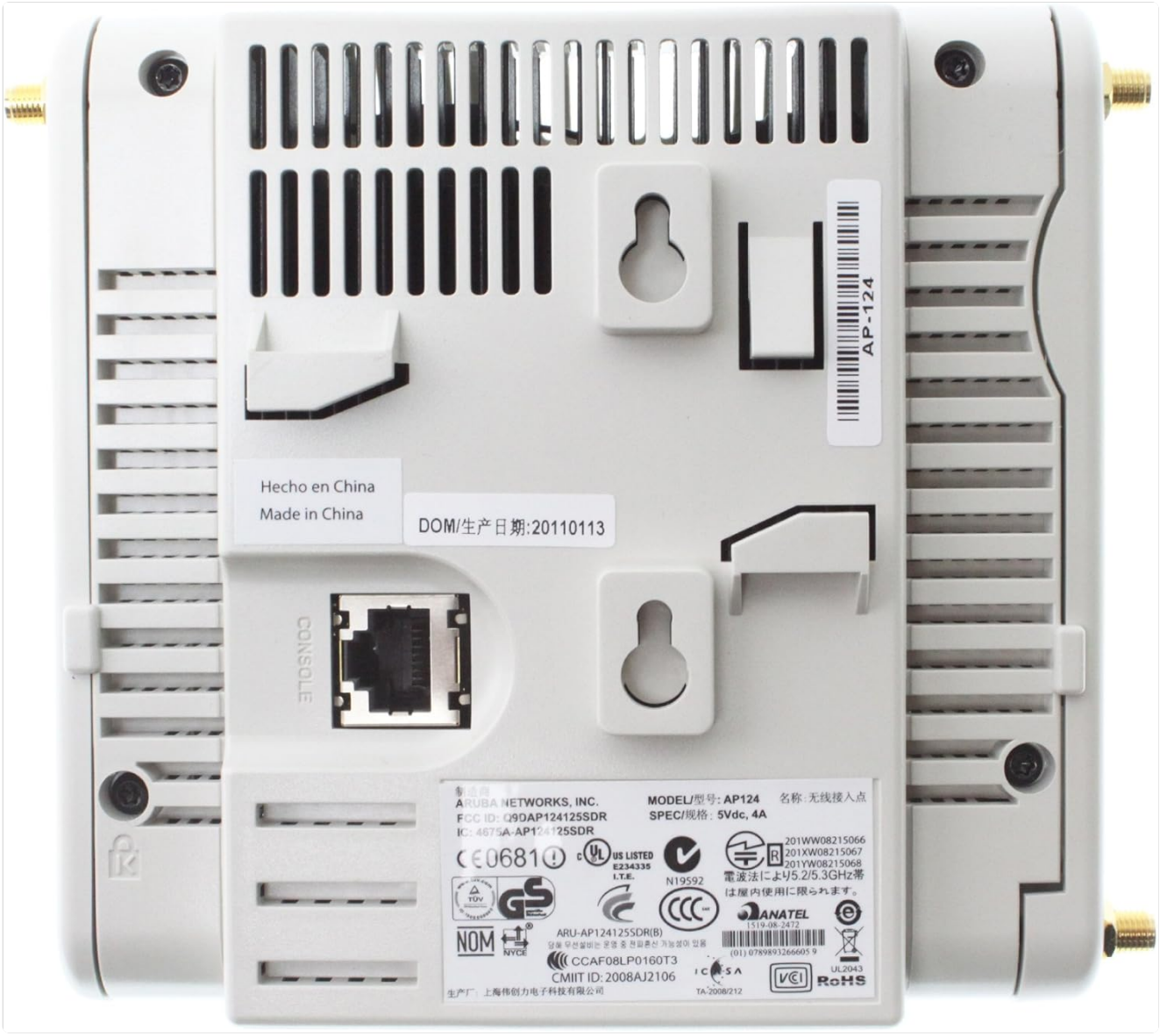

Figure 4.2: Rear View of ARUBA AP-124. This image highlights the connectivity options including two Ethernet ports (supporting PoE), a console port for management, and various regulatory compliance labels. Mounting brackets are also visible.

4.1. Ports and Indicators

- **Ethernet Ports (2x):** Dual 100/1000BASE-T interfaces supporting Power over Ethernet (PoE) for data and power transmission.
- **Console Port:** For direct serial connection for initial configuration or troubleshooting.
- **LED Indicators:** (Specific LED functions would be detailed here if available, e.g., Power, WLAN, Ethernet status).
- **Antenna Connectors:** External antenna interfaces for 2.4GHz and 5GHz radios.

5. Setup and Installation

Follow these steps to properly install and set up your ARUBA AP-124.

5.1. Pre-installation Checklist

- Ensure you have an operational Aruba Controller. The AP-124 cannot function without it.
- Verify network cabling (Ethernet, PoE switch/injector).
- Select an appropriate mounting location (e.g., above-ceiling, enclosure) that provides optimal wireless coverage.

- Acquire compatible external antennas for 2.4GHz and 5GHz bands.

5.2. Mounting the Access Point

1. Attach the mounting bracket (if applicable) to the desired surface using appropriate hardware.
2. Secure the AP-124 to the mounting bracket. Refer to the bracket's specific instructions for details.

5.3. Connecting Cables and Antennas

1. Connect the external antennas to the antenna connectors on the AP-124. Ensure they are securely fastened.
2. Connect an Ethernet cable from your PoE-enabled switch or PoE injector to one of the Ethernet ports on the AP-124. This will provide both data connectivity and power.
3. (Optional) Connect a console cable to the console port for local management, if required.

5.4. Initial Power-Up and Controller Discovery

1. Once powered via PoE, the AP-124 will begin its boot sequence.
2. The AP will attempt to discover and connect to an Aruba Controller on the network.
3. Refer to your Aruba Controller's documentation for instructions on how to provision and manage new access points.

6. Operating the ARUBA AP-124

The ARUBA AP-124 operates under the control of an Aruba Controller. All wireless network configurations, security settings, and user access policies are managed centrally through the controller interface.

6.1. Basic Operation

- Once connected to the controller and provisioned, the AP-124 will broadcast the configured wireless networks (SSIDs).
- Client devices can then connect to these SSIDs using the appropriate security credentials.
- The AP-124 supports 802.11n standards, providing up to 300Mbps theoretical throughput.

6.2. Monitoring

Monitor the status and performance of the AP-124 through the Aruba Controller's management interface. This includes:

- Connected clients
- Traffic statistics
- Radio utilization
- Error logs

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your AP-124.

7.1. Firmware Updates

Firmware updates for the AP-124 are managed and pushed from the Aruba Controller. Always refer to the Aruba Controller documentation for the recommended firmware upgrade procedures.

7.2. Cleaning

- Ensure the device is powered off before cleaning.
- Use a soft, dry cloth to wipe the exterior of the access point.
- Do not use liquid cleaners or aerosol sprays directly on the device.
- Keep ventilation openings clear of dust and debris.

7.3. Environmental Considerations

Ensure the operating environment remains within the specified temperature and humidity ranges to prevent damage to the device.

8. Troubleshooting

This section provides solutions to common issues you might encounter with your ARUBA AP-124.

8.1. AP Not Powering On

- **Check PoE Source:** Ensure the Ethernet cable is connected to a PoE-enabled switch port or a functional PoE injector.
- **Cable Integrity:** Verify the Ethernet cable is not damaged and is securely connected at both ends.
- **Power Cycle:** Disconnect and reconnect the PoE cable to power cycle the AP.

8.2. AP Not Connecting to Controller

- **Network Connectivity:** Confirm that the AP has network connectivity to the Aruba Controller. Check network settings, VLANs, and firewall rules.
- **Controller Status:** Ensure the Aruba Controller is operational and properly configured to accept new APs.
- **Firmware Compatibility:** Verify that the AP's firmware is compatible with the controller's software version.
- **DNS/DHCP:** Ensure the AP can obtain an IP address and resolve the controller's hostname (if configured).

8.3. Poor Wireless Performance

- **Antenna Connection:** Ensure external antennas are correctly and securely attached.
- **Interference:** Check for sources of wireless interference (e.g., other Wi-Fi networks, microwave ovens, cordless phones).
- **Channel Selection:** Use the Aruba Controller to optimize wireless channels to avoid congestion.
- **AP Placement:** Re-evaluate the AP's physical location for optimal coverage and minimal obstructions.

9. Specifications

Detailed technical specifications for the ARUBA AP-124 Wireless Access Point.

Feature	Description
Model	AP-124
Wireless Type	IEEE 802.11n
Radios	Dual 3x3:2 MIMO (2.4GHz / 5GHz)
Ethernet Interfaces	2 x 10/100/1000BASE-T (PoE capable)

Antennas	External antenna interfaces (antennas sold separately)
Power	Power over Ethernet (PoE)
Dimensions (LxWxH)	9 x 7 x 3 inches (22.86 x 17.78 x 7.62 cm)
Weight	8 ounces (0.23 kg)
Manufacturer	Aruba Networks
ASIN	B008GTFCFK

10. Warranty and Support

For warranty information and technical support, please refer to the official ARUBA Networks website or contact your authorized ARUBA reseller. Keep your purchase receipt and product serial number (e.g., **AJ0261294**) readily available when seeking support.

Important Note: This ARUBA AP-124 model requires an Aruba Controller for operation. Ensure your controller is properly licensed and supported for compatibility.

For further assistance, visit: Aruba Networks Support