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HP JZ320A

Aruba AP-303 Wireless Access Point User Manual

Model: JZ320A

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Hewlett-Packard Aruba AP-303 Wireless Access Point. The Aruba 303 Series AP is designed for medium-density enterprise environments, offering high-performance 802.11ac with MU-MIMO (Wave 2) capabilities.

It features an integrated Bluetooth Low-Energy (BLE) radio for advanced locationing and proximity services, and supports 802.3af power. This device is ideal for schools, retail branches, warehouses, hotels, and enterprise offices seeking efficient and productive wireless solutions.

2. PRODUCT OVERVIEW



Figure 2.1: Aruba AP-303 Wireless Access Point. This image shows the top surface of the access point, which is white and has a slightly curved, square design. The "aruba" logo is visible on the lower front portion, and two small black dashes are present on the upper left, indicating LED indicators.

The Aruba AP-303 is a compact wireless access point designed for robust network performance. Key features include:

- **Dual-Band Wi-Fi:** Supports 802.11ac (Wave 2) with concurrent operation on 5GHz (up to 867 Mbps) and 2.4GHz (up to 300 Mbps) bands.
- **MU-MIMO (2x2:2SS):** Enhances efficiency in multi-device environments.
- **Integrated BLE Radio:** Enables location-based services, indoor navigation, asset tracking, and proximity notifications.
- **Power over Ethernet (PoE):** Compatible with 802.3af for simplified deployment.
- **Compact Design:** Measures approximately 5.91 x 5.91 x 1.38 inches.

3. SETUP AND INSTALLATION

3.1. Package Contents

Before beginning installation, verify that your package contains the following items:

- Aruba AP-303 Wireless Access Point (Model: JZ320A)
- Mounting bracket (if included with specific SKU)
- Quick Start Guide

Note: Power adapter and Ethernet cables are typically sold separately.

3.2. Mounting Options

The AP-303 can be mounted on a ceiling tile rail or a solid surface (wall/ceiling). Ensure the mounting location provides optimal Wi-Fi coverage and is within reach of network cabling.

1. Ceiling Tile Mounting:

- Attach the mounting bracket to the ceiling tile rail.
- Align the AP with the bracket and twist to lock it into place.

2. Wall/Solid Ceiling Mounting:

- Use the mounting bracket as a template to mark drill holes.
- Drill holes and insert appropriate anchors (not supplied).
- Secure the mounting bracket to the surface.
- Attach the AP to the secured bracket.

3.3. Connecting the AP

Connect the AP-303 to your network using an Ethernet cable. The AP supports Power over Ethernet (PoE) via its Ethernet port.

1. Connect one end of an Ethernet cable to the Ethernet port on the AP-303.
2. Connect the other end of the Ethernet cable to a PoE-enabled switch or a PoE injector connected to your network.
3. Once powered, the LED indicators on the AP will illuminate, indicating power and network activity.

4. OPERATING INSTRUCTIONS

4.1. Initial Configuration

The Aruba AP-303 can be managed via an Aruba controller or through Aruba Instant On cloud management. Refer to the specific management platform's documentation for detailed configuration steps.

- **Controller-Managed Mode:** The AP will automatically discover and connect to an Aruba Mobility Controller on the network.
- **Instant On Mode:** For cloud-managed deployments, follow the Aruba Instant On mobile app or web portal instructions to add and configure the AP.

4.2. LED Indicators

The AP-303 features LED indicators that provide status information:

LED Status	Description
Solid Green	Device is powered on and operating normally.
Flashing Green	Device is booting up or performing a firmware upgrade.
Solid Amber	Device is powered on but not yet fully operational or has a minor issue.
Flashing Amber	Error condition or device is in a specific mode (e.g., factory reset).
Off	Device is not powered or LEDs are disabled.

5. MAINTENANCE

5.1. Cleaning the Device

To maintain optimal performance and appearance, periodically clean the exterior of the AP-303.

- Ensure the device is powered off and disconnected from the network before cleaning.
- Use a soft, dry, lint-free cloth to wipe down the surfaces.
- Do not use liquid cleaners, aerosol sprays, or harsh chemicals, as these can damage the device.

5.2. Firmware Updates

Regularly update the AP's firmware to ensure optimal performance, security, and access to new features. Firmware updates are typically managed through your Aruba controller or the Aruba Instant On cloud portal. Refer to your management platform's documentation for specific update procedures.

6. TROUBLESHOOTING

This section provides solutions to common issues you may encounter with your Aruba AP-303.

Problem	Possible Cause	Solution
AP not powering on (LEDs off)	No power, faulty Ethernet cable, or PoE issue.	<ul style="list-style-type: none"> • Verify Ethernet cable is securely connected to a PoE-enabled port. • Check if the PoE switch/injector is powered on. • Try a different Ethernet cable or PoE port.
AP powered on but not connecting to network (Amber LED)	Network configuration issue, no DHCP, or controller not found.	<ul style="list-style-type: none"> • Ensure network connectivity to the PoE switch/injector. • Verify DHCP server is operational and assigning IP addresses. • For controller-managed APs, ensure the controller is reachable and configured correctly. • For Instant On, check cloud connectivity and device status in the portal.
Poor Wi-Fi performance	Interference, improper placement, or outdated firmware.	<ul style="list-style-type: none"> • Check for sources of interference (e.g., other wireless devices, microwaves). • Ensure the AP is centrally located and not obstructed. • Update the AP firmware to the latest version. • Adjust Wi-Fi channel and power settings in your management platform.

If the issue persists, consult the full product documentation available on the HP/Aruba support website or contact technical support.

7. SPECIFICATIONS

Feature	Detail
Model Number	JZ320A
Wireless Standard	IEEE 802.11ac Wave 2
Frequency Bands	2.4 GHz, 5 GHz
Max Data Rate (Aggregate)	1.20 Gbit/s (867 Mbps on 5GHz, 300 Mbps on 2.4GHz)
MIMO Configuration	2x2:2SS
Antennas	Integrated (2 x Antenna(s))
Bluetooth	Integrated Bluetooth Low-Energy (BLE) radio
Power Input	802.3af Power over Ethernet (PoE)
Dimensions (H x W x D)	1.38 x 5.91 x 5.91 inches (approx.)
Weight	9.2 ounces (approx.)
Manufacturer	Hewlett-Packard

8. WARRANTY AND SUPPORT

8.1. Warranty Information

For detailed warranty information regarding your Aruba AP-303, please refer to the warranty card included with your product or visit the official HP/Aruba support website. Warranty terms and conditions may vary by region and purchase date.

8.2. Technical Support

If you require technical assistance or have questions not covered in this manual, please contact HP/Aruba technical support. Support resources, including FAQs, documentation, and contact information, are available on the official support website:

Aruba Networks Support
HP Support

