Aruba JW797AR

Aruba AP-315 Dual-Radio 802.11ac Wave 2 Wireless Access Point User Manual

Model: JW797AR

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Aruba AP-315 Dual-Radio 802.11ac Wave 2 Wireless Access Point. The AP-315 is designed to deliver high-performance wireless connectivity in various environments, supporting the 802.11ac Wave 2 standard for enhanced speed and efficiency, alongside backward compatibility with 802.11a/b/g/n standards. Please read this manual thoroughly before using the device to ensure proper setup and optimal performance.

2. SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of fire, electric shock, and injury:

- Do not expose the device to water or moisture.
- Do not open the device casing. Refer all servicing to qualified personnel.
- Ensure proper ventilation around the access point.
- Use only the power adapter or Power over Ethernet (PoE) source specified for this device.
- Install the device in a location where it is not subject to extreme temperatures or direct sunlight.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Aruba AP-315 Wireless Access Point (Model: JW797AR)
- Mounting Bracket
- (Optional) Power Adapter (if not using PoE)
- (Optional) Ethernet Cable

If any items are missing or damaged, please contact your vendor.

4. PRODUCT OVERVIEW

The Aruba AP-315 is a high-performance wireless access point. Below is an image illustrating the device.

Figure 1: Front view of the Aruba AP-315 Wireless Access Point, showing its compact design and the included mounting bracket.

LED Indicators

The AP-315 features LED indicators to provide status information:

- **Power LED:** Indicates power status. Solid green for normal operation, blinking for boot-up or firmware upgrade.
- **Radio LEDs (2.4GHz and 5GHz):** Indicate wireless activity. Solid for active radio, blinking for data transmission.

Ports and Connectors

- **Ethernet Port (GE1/PoE):** Gigabit Ethernet port, supports Power over Ethernet (PoE) for power and data connection.
- **Console Port:** For direct console access for advanced configuration.

- **DC Power Jack:** For optional external power adapter (if PoE is not used).
- **Reset Button:** Used to reset the device to factory default settings.

5. SETUP

5.1 Mounting the Access Point

The Aruba AP-315 comes with a mounting bracket for flexible installation. Common mounting options include ceiling tile rails or solid surfaces.

1. **Choose a Location:** Select a central location free from obstructions for optimal wireless coverage.
2. **Attach Mounting Bracket:** Secure the mounting bracket to the desired surface (e.g., ceiling tile rail, wall) using appropriate screws or clips (not always included).
3. **Attach AP to Bracket:** Align the AP with the bracket and twist it clockwise until it locks securely into place.

5.2 Powering On

The AP-315 can be powered using Power over Ethernet (PoE) or an optional DC power adapter.

- **PoE:** Connect an Ethernet cable from a PoE-enabled switch or PoE injector to the GE1/PoE port on the AP.
- **DC Power:** If not using PoE, connect a compatible DC power adapter to the DC power jack.

Once powered, the Power LED will illuminate, indicating the device is booting up.

5.3 Initial Configuration

After powering on, the AP-315 will acquire an IP address (typically via DHCP) and can be configured via a web-based interface or a central management system (e.g., Aruba Central, Mobility Controller).

1. **Connect to Network:** Ensure the AP is connected to your network via the Ethernet port.
2. **Access Management Interface:**
   - If using a controller, the AP will automatically discover and connect to it.
   - For standalone mode, you may need to discover the AP's IP address using network scanning tools or connect directly via the console port for initial setup.
3. **Login:** Use the default credentials (refer to Aruba documentation for specific defaults, often 'admin'/'admin' or similar).
4. **Configure Wireless Settings:** Set up SSIDs (Wi-Fi network names), security protocols (WPA2/WPA3 recommended), and other network parameters.

6. OPERATING

Once configured, the Aruba AP-315 will broadcast your wireless networks. Client devices can then connect to these networks.

6.1 Connecting Client Devices

To connect a wireless device (e.g., laptop, smartphone) to the AP-315:

1. Enable Wi-Fi on your client device.
2. Scan for available wireless networks.

3. Select the SSID you configured for the AP-315.

4. Enter the network password (if applicable).

6.2 Monitoring Status

You can monitor the operational status of the AP-315 through its web interface or central management system. The LED indicators also provide a quick visual check of its status.

7. MAINTENANCE

7.1 Cleaning

To maintain optimal performance, periodically clean the exterior of the access point with a soft, dry cloth. Do not use liquid cleaners or aerosol sprays.

7.2 Firmware Updates

Regularly check for and apply firmware updates from the official Aruba support website. Firmware updates often include performance improvements, security patches, and new features. Follow the instructions provided with the firmware update package.

7.3 Resetting to Factory Defaults

If you encounter persistent issues or need to reconfigure the device from scratch, you can reset it to factory default settings:

1. With the AP powered on, locate the Reset button.

2. Use a paperclip or a similar pointed object to press and hold the Reset button for approximately 10-15 seconds.

3. Release the button when the LEDs indicate a reset sequence (e.g., all LEDs flash).

4. The AP will reboot with factory default settings.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your Aruba AP-315.

- **No Power:**

    - Check power source (PoE switch/injector or DC adapter).
    - Ensure all cables are securely connected.

- **No Wireless Signal:**

    - Verify the AP is powered on and the Radio LEDs are active.
    - Check configuration settings in the management interface to ensure SSIDs are broadcast.
    - Ensure no physical obstructions are blocking the signal.

- **Slow Connection Speed:**

    - Check for network congestion or interference from other devices.
    - Ensure client devices are within optimal range of the AP.
    - Verify the AP's channel settings are optimized (e.g., using non-overlapping channels).

- **Cannot Access Management Interface:**

- Verify the AP has an IP address and your computer is on the same network segment.
- Try pinging the AP's IP address.
- If all else fails, perform a factory reset and reconfigure.

9. SPECIFICATIONS

Feature	Description
Model Number	JW797AR
Brand	Aruba
Wireless Standards	802.11ac Wave 2, 802.11a/b/g/n
Connectivity Technology	Wireless
Data Transfer Rate	Up to 1733 Mbps (5GHz), Up to 400 Mbps (2.4GHz)
Special Feature	Access Point Mode
Product Dimensions	7.17 x 7.09 x 1.89 inches
Item Weight	0.01 ounces (approx. 0.28 grams)
Input Voltage	240 Volts (for AC adapter, actual device input typically lower DC via PoE or adapter)
UPC	683332117662

Note: Specifications are subject to change without notice.

10. WARRANTY AND SUPPORT

This Aruba AP-315 unit is sold as a renewed product. For specific warranty details, please refer to the terms and conditions provided by the reseller (e.g., Amazon Renewed) at the time of purchase. Typically, renewed products come with a limited warranty from the reseller.
For technical support, firmware downloads, and additional documentation, please visit the official Aruba support website. You may also contact your product reseller for assistance.

- **Aruba Support:** www.arubanetworks.com/support/ (Example link, actual link may vary)
- **Reseller Support:** Refer to your purchase documentation for contact information.