

Aruba AP-103H

Aruba AP-103H Wireless Access Point User Manual

Model: AP-103H

1. PRODUCT OVERVIEW

The Aruba AP-103H is a high-performance, dual-radio (2.4 GHz and 5 GHz) 802.11n wireless access point designed for hospitality, education, and branch office environments. It offers robust wireless connectivity and integrated wired ports for a comprehensive network solution.

Key Features:

- Dual Radio 5 GHz and 2.4 GHz 802.11n 2x2:2 for concurrent operation.
- 2x2 MIMO with two spatial streams, supporting data rates up to 300 Mbps.
- Integrated omni-directional antennas for streamlined deployment.
- Support for up to 32 associated client devices and up to eight BSSIDs per radio.
- Multiple Ethernet ports: two secure downlink switch ports, a passive pass-through RJ-45 port, and a 10/100/1000BASE-T uplink port.
- Flexible power options: Power over Ethernet (PoE) 802.3af or 12-volt DC power supply (optional, not included).
- Requires an Aruba Controller for full functionality.



Figure 1: Front view of the Aruba AP-103H Wireless Access Point.

2. SETUP AND INSTALLATION

The AP-103H is designed for quick and easy installation, typically mounting to a standard electrical or data wall box. Ensure you have an Aruba Controller configured and accessible on your network before proceeding with the physical installation.

2.1 Package Contents

Verify that your package contains the following items:

- Aruba AP-103H Wireless Access Point
- Installation Guide (e.g., Dell Networking W-AP103H Wireless Access Point Installation Guide)
- Mounting bracket and screws



Figure 2: Aruba AP-103H unit shown with its installation guide. The guide is titled "Dell Networking **W-AP103H** Wireless Access Point Installation Guide".



Figure 3: Product box label showing key identifiers such as PKG ID (3S) **76030760394CL10033705DP3C1**, REV **A00**, DP/N **05DP3C**, Vendor ID|Loc ID **76030|76039**, Box Qty **1**, and Mfg ID **76039**.

2.2 Physical Installation

1. **Choose a Location:** Select a suitable location, typically an electrical or data wall box, that provides optimal Wi-Fi

coverage and access to network cabling.

2. **Mount the AP:** Use the provided mounting bracket and screws to securely attach the AP-103H to the wall box.

3. **Connect Network Cables:**

- Connect the uplink Ethernet cable (from your network switch, preferably PoE-enabled) to the 10/100/1000BASE-T uplink port (labeled 'E0' or 'PoE IN').
- If using wired client devices, connect them to the secure downlink switch ports.
- The passive pass-through RJ-45 port can be used for connecting a phone or other device that requires a direct cable connection.

4. **Apply Power:** If using PoE, the device will power on automatically once the uplink cable is connected to a PoE-enabled port. If not using PoE, connect an optional 12-volt DC power supply (not included) to the DC power jack.



Figure 4: Back panel of the Aruba AP-103H showing ports and labels. Key identifiers include Service Tag: **6M9C022**, S/N: **CY0033029**, MAC: **000B86E0375C**, WIRELESS MAC: **ACA31ECEECA8**, and UPC: **015568599903**.

2.3 Initial Configuration (Controller Required)

The AP-103H requires an Aruba Controller for operation. Once powered on and connected to the network, the AP will

attempt to discover and connect to a configured Aruba Controller. Refer to your Aruba Controller documentation for details on AP provisioning and configuration.

3. OPERATING THE AP-103H

Once successfully connected to an Aruba Controller and provisioned, the AP-103H will begin broadcasting Wi-Fi networks (SSIDs) as configured on the controller. Client devices can then connect to these networks.

3.1 Wireless Connectivity

- **Dual-Band Support:** The AP operates on both 2.4 GHz and 5 GHz frequencies, allowing for flexible client connections and optimized performance.
- **Client Association:** Up to 32 client devices can be associated per radio, providing ample capacity for typical deployments.
- **Multiple SSIDs:** The controller allows for the configuration of up to eight BSSIDs (SSIDs) per radio, enabling segmentation of wireless traffic for different user groups or purposes.

3.2 Wired Connectivity

The integrated Ethernet ports provide wired network access:

- **Uplink Port (E0):** Connects the AP to your main network infrastructure. This port supports 10/100/1000BASE-T speeds.
- **Downlink Ports:** Provide secure wired access for devices such as computers, IP phones, or printers.
- **Pass-Through Port:** A passive RJ-45 port for direct cable pass-through, often used for connecting a phone line.

4. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your AP-103H.

- **Cleaning:** Periodically clean the exterior of the AP with a soft, dry cloth. Do not use liquid cleaners or aerosols. Ensure ventilation slots are free from dust and debris.
- **Firmware Updates:** Firmware updates are managed via the Aruba Controller. Consult your controller's documentation for information on checking for and applying firmware updates to your access points. Keeping firmware up-to-date is crucial for security and performance.
- **Environmental Conditions:** Ensure the AP operates within its specified temperature and humidity ranges to prevent damage.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your AP-103H.

5.1 Power and Connectivity Issues

- **AP not powering on:**
 - Verify the Ethernet cable is securely connected to the uplink port and the PoE source.
 - Ensure the PoE switch port is enabled and providing power.
 - If using a DC power adapter, ensure it is correctly connected and the power outlet is functional.
- **AP not connecting to controller:**
 - Check network connectivity between the AP and the controller.
 - Ensure the controller is operational and configured to discover new APs.
 - Verify no firewall rules are blocking communication between the AP and the controller.

5.2 Wireless Performance Issues

- **Slow Wi-Fi speeds:**
 - Check for wireless interference from other devices (e.g., microwaves, cordless phones).
 - Ensure the AP is placed in an optimal location, free from obstructions.
 - Verify client devices are using 802.11n or higher standards.
 - Check the channel utilization and adjust channels on the controller if necessary.
- **Intermittent disconnections:**
 - Ensure the AP has a stable power supply.
 - Check for network cable integrity.
 - Review controller logs for any error messages related to the AP.

6. SPECIFICATIONS

Detailed technical specifications for the Aruba AP-103H.

Feature	Specification
Model Number	AP-103H
Wireless Type	802.11n
Frequency Bands	Dual Radio (2.4 GHz and 5 GHz)
MIMO Configuration	2x2:2
Max Data Rate	300 Mbps per radio
Antennas	Integrated Omni-directional
Uplink Port	1 x 10/100/1000BASE-T Ethernet (E0)
Downlink Ports	2 x Secure Ethernet Switch Ports
Pass-Through Port	1 x Passive RJ-45

Feature	Specification
Power Options	802.3af PoE or 12V DC (optional)
Item Weight	15.2 ounces
Package Dimensions	6.9 x 6.8 x 2 inches
ASIN	B00QUE4U4W
UPC	015568599903
First Available Date	June 15, 2014

7. WARRANTY AND SUPPORT

For information regarding the warranty coverage for your Aruba AP-103H Wireless Access Point, please refer to the warranty documentation provided with your purchase or visit the official Aruba website. Technical support and additional resources can also be found on the Aruba support portal.

This model **REQUIRES** an Aruba Controller. Ensure your controller is properly configured and maintained for optimal performance and support.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question