Aruba AP-105

Aruba Wireless Access Point AP-105-US
USER MANUAL

Product Overview

The Aruba AP-105-US is a high-performance 802.11n wireless access point designed for enterprise deployments. It features dual radios and integrated antennas, providing robust wireless connectivity. It is important to note that this specific model, the AP-105, **requires an Aruba Controller to function and operate**. It cannot be used as a standalone access point. This distinguishes it from the Instant Access Point (IAP) versions which do not require a separate controller.

Key features include:

- 802.11Abgn 2x2:2 wireless standard support.
- Dual radio architecture for concurrent 2.4 GHz and 5 GHz operation.
- Integrated antennas for a compact and efficient form factor.
- Designed for use with an Aruba Mobility Controller.

Setup and Installation

Proper installation is crucial for optimal performance of your Aruba AP-105. This access point is designed for indoor use and can be mounted on a ceiling or wall.

1. **Unpacking:** Carefully remove the AP-105 from its packaging. Verify that all components are present.

2. **Mounting Location:** Select a central location for mounting to ensure optimal wireless coverage. Avoid obstructions like metal structures or thick walls.

3. **Physical Installation:**

   - Attach the appropriate mounting bracket (not included, typically comes with mounting kit) to the desired surface (ceiling tile, wall).
   - Securely attach the AP-105 to the mounted bracket.

4. **Power Connection:** The AP-105 can be powered via Power over Ethernet (PoE) from a compatible switch or injector, or via an optional 12V DC power adapter (not included).

   - For PoE: Connect an Ethernet cable from a PoE-enabled switch or injector to the Ethernet port

on the AP-105.

- For DC Power: Connect the 12V DC power adapter to the power input jack on the AP-105 and plug it into a power outlet.

5. **Network Connection:** Connect an Ethernet cable from your network infrastructure (e.g., a non-PoE switch if using DC power, or directly from the PoE switch) to the Ethernet port on the AP-105. This connection provides data connectivity to your Aruba Controller.

Image: The Aruba AP-105 Wireless Access Point. This image shows the top view of the access point, highlighting its compact design, ventilation grilles, and LED indicators for Power, Ethernet, 11AN, and 11BGN connectivity. The model number "105" is visible in the center.

Operating Instructions

Once physically installed and powered, the Aruba AP-105 will attempt to connect to an Aruba Mobility Controller on your network. The operational status is indicated by the LEDs on the device.

- **Power LED:** Indicates the power status of the device. A solid green light typically means the device is powered on and operating normally.
- **Ethernet LED:** Indicates network activity on the Ethernet port.
- **11AN / 11BGN LEDs:** Indicate activity for the 802.11a/n (5GHz) and 802.11b/g/n (2.4GHz) radios, respectively.

Configuration: All configuration and management of the AP-105 are performed through the connected Aruba Mobility Controller. This includes setting up SSIDs, security protocols, VLANs, and other wireless network parameters. Refer to the Aruba Mobility Controller documentation for detailed configuration procedures.

Maintenance

The Aruba AP-105 is designed for reliable operation with minimal maintenance. However, periodic checks and general care can help ensure its longevity and performance.

- **Cleaning:** Gently wipe the exterior of the access point with a soft, dry cloth. Do not use liquid cleaners or aerosols, as they may damage the device. Ensure ventilation grilles are free from dust accumulation.
- **Firmware Updates:** Firmware updates for the AP-105 are managed and pushed from the Aruba Mobility Controller. Regularly check the Aruba support portal for new firmware releases for your controller and access points to ensure optimal performance, security, and access to new features.
- **Environmental Conditions:** Ensure the access point operates within its specified temperature and humidity ranges to prevent overheating or moisture damage.

Troubleshooting

If you encounter issues with your Aruba AP-105, consider the following common troubleshooting steps:

- **No Power/LEDs Off:**

  - Verify the power source (PoE switch or DC adapter) is functioning correctly and connected securely.
  - If using PoE, ensure the Ethernet cable is connected to a PoE-enabled port.

- **No Network Connectivity (Ethernet LED off/flashing erratically):**

  - Check the Ethernet cable for damage and ensure it is securely plugged into both the AP and the network switch/controller.
  - Verify the network port on the switch is active and configured correctly.

- **AP Not Appearing on Controller:**

  - Ensure the AP has network connectivity to the controller (check IP address, routing).
  - Verify that the controller is operational and configured to discover new access points.
  - Check for any firewall rules that might be blocking communication between the AP and the controller.

- **Poor Wireless Performance:**

  - Check for potential sources of interference (e.g., other wireless devices, microwaves).
  - Ensure the AP is mounted in an optimal location, free from obstructions.
  - Review wireless channel and power settings on the Aruba Controller.

For more advanced troubleshooting or persistent issues, consult the comprehensive documentation available on the official Aruba Networks support website or contact Aruba technical support.

Specifications

Feature	Detail
Model Number	AP-105
Wireless Standard	802.11a/b/g/n (802.11Abgn 2x2:2)

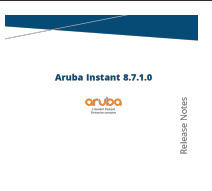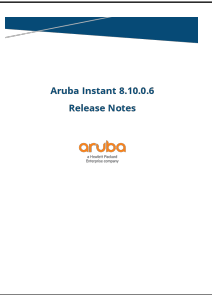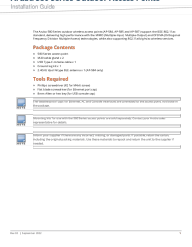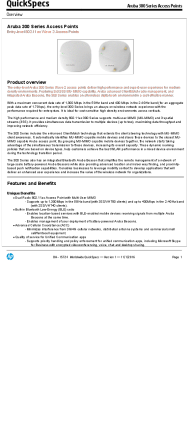| Feature	Detail
Radios	Dual Radio (2.4 GHz and 5 GHz)
Antennas	Integrated
Dimensions (L x W x H)	5.2 x 5.31 x 1.77 inches
Item Weight	10.4 ounces
Power Options	Power over Ethernet (PoE) or 12V DC (adapter sold separately)
Required Equipment	Aruba Mobility Controller

Warranty and Support

For information regarding the warranty coverage for your Aruba AP-105, please refer to the warranty documentation provided at the time of purchase or visit the official Aruba Networks website. Warranty terms and conditions may vary based on region and purchase agreement.

For technical assistance, product documentation, software downloads, and support resources, please visit the official Aruba Networks support portal. It is recommended to have your product serial number available when contacting support.

Online Resources: Aruba Networks Support Website

Related Documents - AP-105

	Aruba Instant AP Aruba Instant AP SSID
	Aruba Instant 8.7.1.0 Release Notes Official release notes for Aruba Instant software version 8.7.1.0, detailing new features, enhancements, resolved issues, known issues, and upgrade procedures for Aruba Instant Access Points.
	Aruba Instant 8.10.0.6 Release Notes: Updates and Technical Guide This document provides comprehensive release notes for Aruba Instant version 8.10.0.6. It details resolved and known issues, supported hardware platforms, and essential upgrade procedures for Aruba Access Points, offering vital technical information for network administrators.

Aruba Instant 8.9.0.0 Release Notes

This document provides release notes for Aruba Instant version 8.9.0.0, detailing new features, enhancements, resolved issues, and known limitations for Aruba access points.

Aruba 580 Series Outdoor Access Points Installation Guide

Comprehensive installation guide for Aruba 580 Series outdoor wireless access points (AP-584, AP-585, AP-587). Covers hardware overview, package contents, tools required, installation procedures for various connections (Ethernet, Fiber-optic, AC power), LED status indicators, electrical and environmental specifications, and regulatory compliance information.

Aruba 300 Series Access Points QuickSpecs - Technical Specifications and Ordering Guide

Comprehensive QuickSpecs document detailing the Aruba 300 Series Wave 2 access points. Includes product overview, features, Wi-Fi specifications, interfaces, power, mounting, environmental, regulatory compliance, certifications, warranty, and a detailed ordering guide with part numbers.