The Aruba IAP-103 wireless access point supports the IEEE 802.11n standard for high-performance WLAN. This access point uses MIMO (Multiple-input, Multiple-output) technology and other high-throughput mode techniques to deliver high-performance, 802.11n 2.4 GHz or 5 GHz functionality while simultaneously supporting existing 802.11a/b/g wireless services. The IAP-103 access point works only in conjunction with a virtual controller.

The Aruba IAP-103 access point provides the following capabilities:
- Wireless transceiver
- Protocol-independent networking functionality
- IEEE 802.11a/b/g/n operation as a wireless access point
- IEEE 802.11a/b/g/n operation as a wireless air monitor
- Compatibility with IEEE 802.3af PoE

The IAP-103 requires Aruba Instant 4.1 or later.

## Package Contents
- IAP-103 access point
- 9/16” and 15/16” Ceiling Rail Adapters
- Aruba Instant Quick Start Guide
- Installation guide (this document)

Inform your supplier if there are any incorrect, missing, or damaged parts. If possible, retain the carton, including the original packaging materials. Use these materials to repack and return the unit to the supplier if needed.

### IAP-103 LED Overview

The IAP-103 is equipped with four LEDs that indicate the status of the various components of the AP.

**PWR:** Indicates whether or not the IAP-103 is powered on

**ENET:** Indicates the status of the IAP-103 Ethernet port

**5 GHz:** Indicates the status of the 802.11a/n radio

**2.4 GHz:** Indicates the status of the 802.11b/g/n radio

### Table 1 - LED Meanings

<table>
<thead>
<tr>
<th>LED</th>
<th>Color/State</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWR</td>
<td>Off</td>
<td>No power to AP, or initial power-up</td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>Error condition</td>
</tr>
<tr>
<td>ENET</td>
<td>Off</td>
<td>Ethernet link unavailable</td>
</tr>
<tr>
<td></td>
<td>Yellow</td>
<td>Ethernet link established</td>
</tr>
<tr>
<td>Power</td>
<td>Yellow</td>
<td>10/100/1000Mbps Ethernet link established</td>
</tr>
<tr>
<td>Flashing</td>
<td>Yellow</td>
<td>Ethernet link activity</td>
</tr>
<tr>
<td>5 GHz</td>
<td>Off</td>
<td>5 GHz radio disabled</td>
</tr>
<tr>
<td></td>
<td>Yellow</td>
<td>5 GHz radio enabled</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>5 GHz radio disabled</td>
</tr>
<tr>
<td>Power</td>
<td>Green</td>
<td>5 GHz radio enabled</td>
</tr>
<tr>
<td>Flashing</td>
<td>Green</td>
<td>5 GHz Air or Spectrum Monitor</td>
</tr>
<tr>
<td>2.4GHz</td>
<td>Off</td>
<td>2.4 GHz radio disabled</td>
</tr>
<tr>
<td></td>
<td>Yellow</td>
<td>2.4 GHz radio enabled</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>2.4 GHz radio enabled</td>
</tr>
<tr>
<td>Flashing</td>
<td>Green</td>
<td>2.4 GHz Air or Spectrum Monitor</td>
</tr>
</tbody>
</table>

### Ethernet Port

The IAP-103 is equipped with one 10/100/1000Base-T (RJ-45) auto-sensing, MDIX wired-network connectivity port. This port supports IEEE 802.3af Power over Ethernet (PoE) compliance, accepting 48 VDC (nominal) as a standard defined Power Device (PD) from a Power-Sourcing Equipment (PSE) such as an 802.3af PoE injector, or network infrastructure that supports PoE. The 10/100/1000 Mbps Ethernet port is on the back of the AP. The port has RJ-45 female connectors with the pinouts shown in Figure 3.

### DC Power Socket

If PoE is not available, an optional Aruba AP AC-DC adapter kit (sold separately) can be used to power the IAP-103.

Additionally, a locally-sourced AC-to-DC adapter (or any DC source) can be used to power this device, as long as it complies with all applicable local regulatory requirements and the DC interface meets the following specifications:

- 12 VDC (+/-3%)/1W
- Center-positive 1/74.0 mm circular plug, 9.5 mm length

### Reset Button

The reset button can be used to return the AP to factory default settings. To reset the AP:

1. Power off the AP
2. Press and hold the reset button using a small, narrow object, such as a pen
3. Power on the AP without releasing the reset button. The power LED will flash within 5 seconds.
4. Release the reset button.

The power LED will flash again within 15 seconds indicating that the reset is completed. The AP will now continue to boot with the factory default settings.

### Before You Begin

**FCC Statement:** Improper termination of access points installed in the United States (non-US model Regulatory Domain model(s)) will be in violation of the FCC grant of equipment authorization. Any such willful or intentional violation may result in a requirement by the FCC for immediate termination of operation and may be subject to forfeiture (47 CFR 1.80).

**EU Statement:** Lower power radio LAN product operating in 2.4 GHz and 5 GHz bands. Please refer to the Aruba Instant User Guide for details on restrictions.

Low Power Func.LAN Produkt, das in 2.4 GHz und in 5 GHz Band arbeitet. Weitere Informationen bezüglich Einschränkungen finden Sie im Aruba Instant User Guide.

Seperati Radio LAN a bassa Potenza, operanti a 2.4 GHz e 5 GHz. Fare riferimento alla Aruba Instant User Guide per avere informazioni dettagliate sulle restrizioni.

### AP Pre-Installation Checklist

Before installing your AP, ensure that you have the following:

- CAT5e or better UTP cable of required length
- One of the following power sources:
  - 802.3af-compliant Power over Ethernet (PoE) source. The PoE source can be any midspan power source equipment (PSE) device
  - Aruba AP AC-DC adapter kit (sold separately)

### Summary of the Setup Process

Successful setup of an IAP-103 consists of four tasks, which must be performed in this order:

1. Identify the specific installation location for each AP.
2. Install each AP.
4. Configure the virtual controller. Refer to the Aruba Instant Quick Start Guide.

### Identifying Specific Installation Locations

You can mount the IAP-103 access point on a wall or on the ceiling. Use the AP placement map generated by Aruba’s AirWave VLANPlan software application to determine the proper installation location(s). Each location should be as close as possible to the center of the intended covered area and should be free from obstructions or obvious sources of interference. These RF absorption/reflection/interference sources will impact AP preparation and should have been accounted for during the planning phase and adjusted for in VLANPlan.

### Installing the AP

1. Pull the necessary cables through a prepared hole in the ceiling tile near where the AP will be placed.
2. Place the adapter against the back of the AP with the adapter at an angle of approximately 30 degrees to the tabs (see Figure 4).
3. Push the adapter clockwise until it snaps into place in the tabs (see Figure 4).
4. If necessary, connect the console cable to the console port on the back of the AP.
5. Hold the AP next to the ceiling tile rail with the ceiling tile rail mounting slots where the AP will be placed.
6. Pushing toward the ceiling tile, rotate the AP clockwise until the device clicks into place on the ceiling tile rail.

### Figure 2 - IAP-103 Rear

- Ethernet Port
- Console Port
- DC Power Socket
- Kensington Lock

### Figure 3 - Gigabit Ethernet Port Pin-Out

- 10/100/1000Mbps Ethernet link established
- Ethernet link activity
- 5 GHz radio enabled
- 5 GHz radio disabled
- 2.4 GHz radio enabled
- 2.4 GHz radio disabled
- 2.4 GHz Air or Spectrum Monitor

### Figure 4 - Attaching the Ceiling Rail Adapter

1. Pull the necessary cables through a prepared hole in the ceiling tile near where the AP will be placed.
2. Place the adapter against the back of the AP with the adapter at an angle of approximately 30 degrees to the tabs (see Figure 4).
3. Push the adapter clockwise until it snaps into place in the tabs (see Figure 4).
4. If necessary, connect the console cable to the console port on the back of the AP.
5. Hold the AP next to the ceiling tile rail with the ceiling tile rail mounting slots where the AP will be placed.
6. Pushing toward the ceiling tile, rotate the AP clockwise until the device clicks into place on the ceiling tile rail.

### Connecting Required Cables

Install cables in accordance with all applicable local and national regulations and practices.

### Verify Post-Installation Connectivity

The integrated LEDs on the AP can be used to verify that the AP is receiving power and initializing successfully (see Table 1). Refer to the Aruba Instant Quick Start Guide for further details on verifying post-installation network connectivity.
Product Specifications

**Electrical**
- **Ethernet**: 1x10/100/1000Base-T auto-negotiating Ethernet RJ-45 interface
- **SFP+**: 10GBase-LR/ER/SR
- **IEEE 802.3az (Energy-Efficient Ethernet)**: IEEE 802.3az (Energy-Efficient Ethernet)
- Power: DC power, 12VDC power interface, supports powering through an AC-to-DC power adapter
- optional 802.3af-compliant PoE source device

Additional information for this product, please refer to the data sheet. The data sheet can be found at www.arubanetworks.com.

Proper Disposal of Aruba Equipment

For the most current information about Global Environmental Compliance and Aruba products, see our website at www.arubanetworks.com.

Waste of Electrical and Electronic Equipment

Aruba products are end-of-life products that are subject to separate collection and treatment in the EU. More details about the computers marked with the “Recycling Logo” can be found at www.recycling-evropa.de. Aruba product end-of-life is covered by this device, but the end-of-life should comply with the national laws and systems of countries where the devices are to be disposed of.

RoHS

Aruba products also comply with the EU Restrictions of Hazardous Substances Directive 2002/95/EC (RoHS). EU RoHS restricts the use of specific hazardous materials in the manufacture of electrical and electronic equipment. Specifically, restricted materials under the RoHS Directive are Lead (including Solder used in printed circuit assemblies), Cadmium, Mercury, Hexavalent Chromium, and Hexadecyl. Aruba products are subject to the exemptions listed in the Directive. Aruba products are marked with the “BSMI” label shown at the left indicating compliance to the Directive.

China RoHS

Aruba products also comply with China environmental declaration requirements and are labeled with the “CE & CB” label shown at the left.

Safety and Regulatory Compliance

Aruba Networks provides a multi-language document that contains country-specific restrictions and additional safety and regulatory information for all Aruba products. This document can be accessed through the website www.arubanetworks.com or by downloading it from the following location: www.arubanetworks.com/safety_addendum.

Regulatory Model Names

The following regulatory model names apply to the IAP-103:
- IAP-103: APIN0103

FCC

This device is electronically labeled. To view the FCC ID:
1. Navigate to this device’s regulatory model names apply to the IAP-103:
- IAP-103: APIN0103

FCC Class B Part 15

This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference.
2. The device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user’s authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer’s instructions, may cause interference harmful to radio communications.

If this device does cause interference, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

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