The Aruba IAP-210 Series is equipped with two ceiling rail adapters for 9/16" and 15/16" ceiling rails. Additional wall mount adapters and ceiling rail adapters for other rail widths are available.

**Using 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 and slide it onto the adapter rail, ensuring it is fully inserted into the rail channels.
3. Point the adapter clockwise until it snaps into place in the rails (see Figure 7).

**AP Pre-Installation Checklist**

Before installing your IAP-210 Series AP, ensure that you have the following:

- CAT5e or better UTP cable of required length
- One of the following power sources:
  - IEEE 802.3at and 802.3af compliant Power over Ethernet (PoE) source
  - Any power source equipment (PSE) controller or midspan PoE device
  - Aruba AP AC-DC adapter kit (sold separately)

**Summary of the Setup Process**

When setting up an IAP-210 Series access point consists of five 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.

**Aruba Networks, Inc., in compliance with governmental requirements, has designed the IAP-210 Series access points so that only authorized network administrators can change the settings. For more information about AP configuration, refer to the Aruba Instant Quick Start Guide and Aruba Instant User Guide.**

**Package Contents**

- IAP-210 Series 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 packing materials. Use these materials to repack and return the unit to the supplier if needed.

**IAP-210 Series Access Point**

**IAP-210 Series Hardware Overview**

**LEDs**

The IAP-210 Series is equipped with four LEDs that indicate the status of the various components of the AP.

- PWR: Indicates whether or not the IAP-210 Series is powered on.
- ENET: Indicates the status of the IAP-210 Series’ Ethernet port.
- Yellow - Steady 2.4 GHz radio enabled in non-HT WLAN mode
- Green - Steady 5 GHz radio enabled in HT WLAN mode
- Green - Steady 1000Mbps Ethernet link established
- Yellow - Steady 10/100Mbps Ethernet link established
- Green - Flashing 2.4 GHz radio disabled
- Yellow - Flashing 5 GHz radio disabled
- Green - Flashing 5 GHz radio enabled in non-HT WLAN mode
- Green - Steady 5 GHz radio enabled in HT WLAN mode
- Green - Flashing 5 GHz Air or Spectrum Monitor
- Yellow - Flashing 2.4 GHz radio disabled
- Yellow - Flashing 2.4 GHz radio enabled in non-HT WLAN mode
- Green - Steady 2.4 GHz radio enabled in HT WLAN mode
- Green - Flashing 2.4 GHz Air or Spectrum Monitor
- Green - Flashing 5 GHz Air or Spectrum Monitor
- Yellow - Flashing 5 GHz radio disabled
- Green - Flashing 5 GHz radio enabled in non-HT WLAN mode
- Green - Steady 5 GHz radio enabled in HT WLAN mode
- Green - Flashing 5 GHz Air or Spectrum Monitor

**Console Port**

The serial console port allows you to connect the AP to a serial terminal or a laptop for direct local management. This port is an RJ-45 female connector with the pin-outs described in Figure 6.

**Ethernet Port**

The IAP-210 Series is equipped with one 10/100/1000Base-T (RJ-45) auto-sensing, MDI-MDIX network interface connection port. This port supports IEEE 802.3af and 802.3at Power over Ethernet (PoE) compliance, accepting 48V DC as a standard defined Power Device (PD) from a Power Sourcing Equipment (PSE) such as an Aruba PoE injector, or network infrastructure that supports PoE.

The 10/100/1000 Mbps Ethernet ports are on the bottom of the AP. These ports have RJ-45 female connectors with the pin-outs shown in Figure 6.

**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-210 Series.

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 (+/-5)%
- Centro-positive 1:7.8 0 mm circular plug, 9.5 mm length

**Identifying Specific Installation Locations**

You can mount the IAP-210 Series access point on a wall or on the ceiling. Use the AP placement map generated by Aruba’s Wireless VLAN Plan software application to determine the proper installation location(s). Each location should be as close as possible to the center of the intended coverage area and should be free from obstructions or obvious sources of interference. These EF absorbers/reflectors/interference sources will impact RF propagation and should have been accounted for during the planning phase and adjusted for in Wireless VLAN Plan.

**Identifying Known RF Absorbers/Reflectors/Interference Sources**

Identifying known RF absorbers, reflectors, and interference sources while in the field during the installation phase is critical. Make sure that these sources are taken into consideration when you attach an AP to its fixed location. Examples of sources that degrade RF performance include:

- Concrete and brick
- Objects that contain water
- Metal
- Microwave ovens
- Wireless phones and headsets

**Installing the AP**

Service to all Aruba Networks products should be performed by trained service personnel only.

**Using the Ceiling Rail Adapter**

The IAP-210 Series ships with two ceiling rail adapters for 9/16” and 5/16” ceiling rails. Additional wall mount adapters and ceiling rail adapters for other rail styles are available as accessory kits.

- **Maximum supported weight of the ceiling rail adapter is 3.75 kg.**
- Access points are radio transmission devices and as such are subject to governmental regulation. Network administrators responsible for the configuration and operation of access points must comply with local broadcast regulations. Specifically, access points must use channel assignments appropriate to the location in which the access point will be used.

**IAP-210 Series Access Point**

**IAP-210 Series Hardware Overview**

**IAP-210 Series 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</td>
</tr>
<tr>
<td>Green - Flashing</td>
<td>AP booting</td>
<td></td>
</tr>
<tr>
<td>Green - Steady</td>
<td>AP ready</td>
<td></td>
</tr>
<tr>
<td>ENET</td>
<td>Off</td>
<td>Ethernet link unavailable</td>
</tr>
<tr>
<td>Yellow - Steady</td>
<td>10/100Mbps Ethernet link established</td>
<td></td>
</tr>
<tr>
<td>Green - Steady</td>
<td>1000Mbps Ethernet link established</td>
<td></td>
</tr>
<tr>
<td>Flashing</td>
<td>Ethernet link activity</td>
<td></td>
</tr>
<tr>
<td>5 GHz</td>
<td>Off</td>
<td>5 GHz radio disabled</td>
</tr>
<tr>
<td>Yellow - Steady</td>
<td>5 GHz radio enabled in non-HT WLAN mode</td>
<td></td>
</tr>
<tr>
<td>Green - Steady</td>
<td>5 GHz radio enabled in HT WLAN mode</td>
<td></td>
</tr>
<tr>
<td>Flashing</td>
<td>5 GHz Air or Spectrum Monitor</td>
<td></td>
</tr>
<tr>
<td>2.4 GHz</td>
<td>Off</td>
<td>2.4 GHz radio disabled</td>
</tr>
<tr>
<td>Yellow - Steady</td>
<td>2.4 GHz radio enabled in non-HT WLAN mode</td>
<td></td>
</tr>
<tr>
<td>Green - Steady</td>
<td>2.4 GHz radio enabled in HT WLAN mode</td>
<td></td>
</tr>
<tr>
<td>Flashing</td>
<td>2.4 GHz Air or Spectrum Monitor</td>
<td></td>
</tr>
</tbody>
</table>
Connecting Required Cables

Waste of Electrical and Electronic Equipment

Users are advised that high power, 802.11a/b/g/n radios are allocated as primary users of the bands 5.15-5.35 GHz and 5.470-5.725 GHz and, hence, could cause interference and/or damage to Governed Export (GE) devices.

Face towards the ceiling tile, rotate the AP clockwise until the device clicks into place on the ceiling tile rail.

6. Pushing toward the ceiling tile, rotate the AP clockwise until the device clicks into place on the ceiling tile rail.

7. On the IAP-214, install the external antennas according to the manufacturer’s instructions, and connect the antenna to the antenna interface on the AP.

Verifying Post-Installation Connectivity

Radio transmitter 4567A-APIN0214215 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna separation. 

- Power with dry cell, as an additional maintenance required.
- No necessary parts, the unit must not be sent back to the manufacturer for repair.
- No maintenance is allowed without Aruba approval.

FCC Class B Part 15

The device complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions:

1. The 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.

For additional specifications on this product, please refer to the data sheet. The data sheet can be downloaded from the following location: http://www.arubanetworks.com/safety_addendum

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 access points. This document can be reviewed or downloaded from the following location: http://www.arubanetworks.com/safety_addendum

Regulatory Model Names

Product Specifications

- For more information about Global Environmental Compliance and Aruba products, see our website at: http://www.arubanetworks.com

Proper Disposal of Aruba Equipment

Contacting Aruba Networks

For additional specifications on this product, please refer to the data sheet. The data sheet can be downloaded from the following location: http://www.arubanetworks.com/safety_addendum

www.arubanetworks.com


End user is responsible for the resulting radio interference problems if the equipment is not used in accordance with the conditions stated in the device’s manual.

The use of Aruba Networks, Inc. switching platforms and software, by all individuals or corporations, to terminate, provide, or support high power, 802.11a/b/g/n radios is prohibited. This action and its consequences are a violation of the law, and legal action could be taken against the user, the organization operating the site, and the legal authority that was alerted to the violation.

www.arubanetworks.com

Europe RoHS

Aruba products also comply with the EU restriction of hazardous substances 2002/95/EC, 2003/111/EC and WEEE directive on WEEE. Equipment with the symbol shown at the left (crossed-out wheelie bin) must not be disposed of in household waste. The treatment applied at end of life of these products in countries compliant with the applicable national laws of countries implementing Directives 2002/95/EC on WEEE and 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Regulatory Model Names

The following regulatory model names apply to the IAP-215 device.

IAP-210, AP-211

RoHS

Aruba products also comply with the EU restriction of hazardous substances 2002/95/EC, 2003/111/EC and WEEE directive on WEEE. Equipment with the symbol shown at the left (crossed-out wheelie bin) must not be disposed of in household waste. The treatment applied at end of life of these products in countries compliant with the applicable national laws of countries implementing Directives 2002/95/EC on WEEE and 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

India RoHS

This product complies with R Libro, governed by the Ministry of Environment & Forests, Government of India.

FCC

This device is electronically labeled. To view the FCC ID:

1. Launch the control WebUI.
2. Navigate to About.

RF Radiation Exposure Statement: This equipment complies with FCC RF radiation exposure limits. This equipment should be installed and operated with a minimum distance of 7.9 inches (20 cm) between the radiator and your body for 2.4 GHz and 5 GHz operations. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. When operated in the 5.15 to 5.25 GHz frequency range, this device is restricted to indoor use to reduce the potential for harmful interference with co-channel Mobile Satellite Systems.

Verifying 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 Access Point Quick Start Guide for further details on verifying post-installation network connectivity.

Power Productivity

- Electrical
- 12 VDC power input, interface supports powering through an AC-12V power adapter
- ME-ZERO power input, interface supports powering through a ME-ZERO power adapter
- Ports
- 2x 10/100 Ethernet interface, interface supports powering through an AC-12V power adapter
- MEC-power input, interface supports powering through a MEC power adapter

It is a power adapter other than the one provided by Aruba Networks is used in the US or Canada, it should be cULUS (UL) listed, with an output rated 12 VDC, minimum 1.5A, marked “LED” or “12V”, and suitable for plugging into a standard power receptacle in the US and Canada.

For additional specifications on this product, please refer to the data sheet. The data sheet can be found at: http://www.arubanetworks.com/safety_addendum

Proper Disposal of Aruba Equipment

Dispose of Aruba products per local regulation. For the most current information about Global Environmental Compliance and Aruba products, see our website at: http://www.arubanetworks.com

Users are advised that high power, 802.11a/b/g/n radios are allocated as primary users of the bands 5.15-5.35 GHz and 5.470-5.725 GHz and, hence, could cause interference and/or damage to Governed Export (GE) devices.

EU Regulatory Conformance

This product is CE marked according to the provisions of the R & TTE Directive 1999/5/EC (R & TTE). Aruba Networks, Inc. hereby declares that the APIN0214 / APIN0215 device model is in compliance with the essential requirements and other relevant provisions of Directives 1995/5/EC and 2004/108/EC.

The Declaration of Conformity made under Directive 1995/5/EC is available for viewing at the following location: http://support.arubanetworks.com

Canada

This radio transmitter in bands 2.4-2.4835 GHz must not cause interference to authorized Canadian services, and Canadian Standards Association (CSA) approved equipment only is acceptable for use in the bands 2.4-2.4835 GHz. If you are unsure whether your equipment is approved, contact Industry Canada or the manufacturer of the equipment.

This device is restricted to indoor use to reduce the potential for harmful interference with co-channel Mobile Satellite Systems.

RF Declaration sur la radioexposition: Le matériel émettant est conforme aux normes IC Limites d’exposition aux rayonnements RF. Ce matériel doit être installé et utilisé à une distance minimum de 15.3 cm entre l’émetteur et votre corps pour 2.4 GHz et 5 GHz. Autre type de matériel, l’émetteur ne doit pas être co-habitants ou opérer en conjonction avec une autre antenne ou émetteur.

Australia

This product complies with the Class B limits for radio noise emissions as set out in the interference-causing equipment standard entitled “Digital Apparatus,” ICES-003 of Industry Canada.

This product is CE marked according to the provisions of the R & TTE Directive 1999/5/EC (R & TTE). Aruba Networks, Inc. hereby declares that the APIN0214 / APIN0215 device model is in compliance with the essential requirements and other relevant provisions of Directives 1995/5/EC and 2004/108/EC.

The Declaration of Conformity made under Directive 1995/5/EC is available for viewing at the following location: http://support.arubanetworks.com

Canada

This radio transmitter in bands 2.4-2.4835 GHz must not cause interference to authorized Canadian services, and Canadian Standards Association (CSA) approved equipment only is acceptable for use in the bands 2.4-2.4835 GHz. If you are unsure whether your equipment is approved, contact Industry Canada or the manufacturer of the equipment.

This device is restricted to indoor use to reduce the potential for harmful interference with co-channel Mobile Satellite Systems.

Terms of use and Limitations of Liability

Warranty

This warranty product is protected by an Aruba warranty. For details, see Aruba Networks standard warranty terms and conditions.