



## Connecting Required Cables

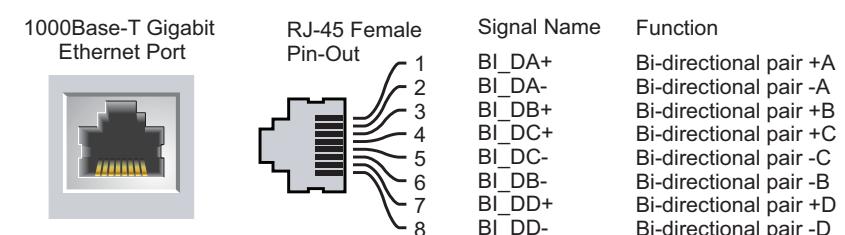
Install cables in accordance with all applicable local and national regulations and practices.

### Ethernet Ports

The RJ45 Ethernet port (ENET) supports 10/100/1000Base-T auto-sensing MDI/MDX connections. Use these ports to connect the AP to a twisted pair Ethernet LAN segment or directly to an Aruba Controller. Use a 4- or 8-conductor, Category 5 UTP cable up to 100 m (325 feet) long.

The 10/100/1000 Mbps Ethernet port is on the back of the AP. The port has an RJ-45 female connector with the pin-outs shown in Figure 6.

**Figure 6** Gigabit Ethernet Port Pin-Out

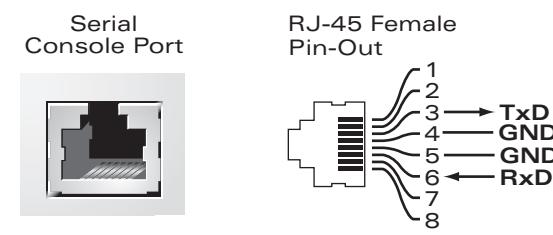


### Serial Console Port

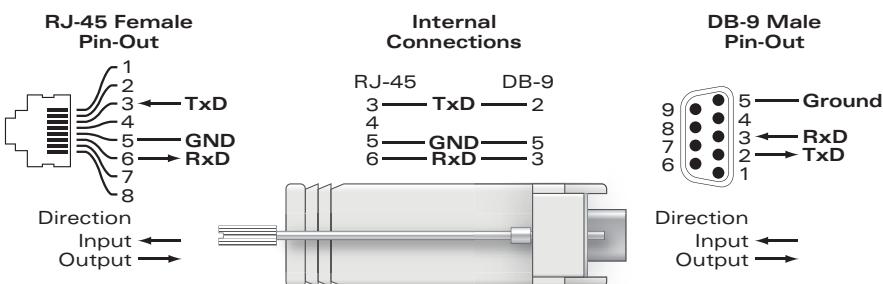
The serial console port (Console) allows you to connect the AP to a serial terminal or a laptop for direct local management. This port is an RJ-45 female connector with the pinouts described in Figure 7. Connect this port in one of the following ways:

- Connect it directly to a terminal or terminal server using an Ethernet cable.
- Use a modular adapter to convert the RJ-45 (female) connector on the AP to a DB-9 (male) connector, and connect the adapter to a laptop using an RS-232 cable. See Figure 8 for connector details of the adapter.

**Figure 7** Serial Port Pin-Out



**Figure 8** RJ-45 (Female) to DB-9 (Male) Modular Adapter Conversion



### Power Connection

The AP-105 has a single 12V DC power jack socket to support powering through an AC-to-DC power adapter.



If both POE and DC power are available, the AP uses POE even when there is not enough POE voltage available to power the AP.

### 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 *ArubaOS Quick Start Guide* for further details on verifying post-installation network connectivity.

**Table 1** AP-105 Series LED Meanings

LED	Color/State	Meaning
PWR	Off	No power to AP
	Green flashing	System initializing
	Red steady	System failed to initialize, contact TAC
	Green steady	Power on, device ready
ENET (10/100/1000 Mbps)	Off	No link
	Green on	1000 Mbps link
	Amber on	10/100 Mbps link
	Green flashing	Ethernet link activity

**Table 1** AP-105 Series LED Meanings

LED	Color/State	Meaning
11A/N	Off	5 GHz radio is disabled
	Amber	5 GHz radio enabled in WLAN mode
	Green	5 GHz radio enabled in 11n mode
	Green flashing	5 GHz Air Monitor or RF Protect mode
11B/G/N	Off	2.4 GHz radio disabled
	Amber	2.4 GHz radio enabled in WLAN mode
	Green	2.4 GHz radio enabled in 11n mode
	Green flashing	2.4 GHz Air Monitor or RF Protect mode

- Direct Sequence Spread Spectrum (DSSS)
- Radio Modulation Type:
  - 802.11b - CCK, BPSK, QPSK
  - 802.11g - CCK, BPSK, QPSK, 16-QAM, 64-QAM
  - 802.11a - BPSK, QPSK, 16-QAM, 64-QAM
  - 802.11n draft 2.0
- Media Access Control: CSMA/CA with ACK
- Supported Frequency Bands 2.4GHz:
  - 2.400 ~ 2.4835GHz (Global), channels country specific
  - 5.150 ~ 5.250GHz (low band), country-specific
  - 5.250 ~ 5.350GHz (mid band), country-specific
  - 5.470 ~ 5.725GHz (Europe), country-specific
  - 5.725 ~ 5.825GHz GHz (high band), country-specific
- Data Rates:
  - 802.11b - 1, 2, 5.5, 11 Mbps per channel
  - 802.11g - 6, 9, 12, 18, 24, 36, 48 and 54 Mbps per channel
  - 802.11a - 6, 9, 12, 18, 24, 36, 48 and 54 Mbps per channel
  - 802.11n - Data rate MCS0 – MCS15 (from 6.5 Mbps to 300 Mbps)

## Configuring the AP-105

### AP Provisioning/Reprovisioning

Provisioning parameters are unique to each AP. These local AP parameters are initially configured on the controller which are then pushed out to the AP and stored on the AP itself. Aruba recommends that provisioning settings be configured via the ArubaOS Web UI only. Refer to the *ArubaOS User Guide* for complete details.

### AP Configuration

Configuration parameters are network or controller specific and are configured and stored on the controller. Network configuration settings are pushed out to the AP(s) but remain stored on the controller.

Configuration settings can be configured via the ArubaOS Web UI, ArubaOS CLI, or Aruba MMS. Refer to their respective guides for further details: the *ArubaOS User Guide* or *Aruba Mobility Management System User Guide*.

## Product Specifications

### Mechanical

- Dimensions (antenna stowed) (HxWxD):
  - 5.2 inches x 5.3 inches x 1.8 inches
  - 13.2 cm x 13.5 cm x 4.5 cm
- Weight: 300g/0.66 lbs.
- Temperature:
  - Operating: 0°C to 50°C (32°F to 122°F)
  - Storage: -10°C to 70°C (14°F to 158°F)
- Relative Humidity: 5% to 95% non-condensing
- Altitude: 8,000 ft @ 28°C (82.4°F)
- Mounting: Wall, ceiling, or desktop mountable
- Antennas: Integrated
- Visual Status Indicators (LEDs): See Table 1

### Proper Disposal of Aruba Equipment

For the most current information about Global Environmental Compliance and Aruba products, see our website at [www.arubanetworks.com](http://www.arubanetworks.com).

### Waste of Electrical and Electronic Equipment

Aruba products at end of life are subject to separate collection and treatment in the EU Member States, Norway, and Switzerland and therefore are marked with the symbol shown at the left (crossed-out wheelie bin). The treatment applied at end of life of these products in these countries shall comply with the applicable national laws of countries implementing Directive 2002/96EC on Waste of Electrical and Electronic Equipment (WEEE).



### European Union RoHS

Aruba products also comply with the EU Restriction 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 Bromine. Some Aruba products are subject to the exemptions listed in RoHS Directive Annex 7 (Lead in solder used in printed circuit assemblies). Products and packaging will be marked with the "RoHS" label shown at the left indicating conformance to this Directive.

### China RoHS

Aruba products also comply with China environmental declaration requirements and are labeled with the "EFUP 10" 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 access points. This document can be viewed or downloaded from the following location: [www.arubanetworks.com/safety\\_appendum](http://www.arubanetworks.com/safety_appendum)



**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 13.78 inches (35 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.

# AP-105 Wireless Access Point Installation Guide

**ARUBA**  
networks

### Contacting Aruba Networks

**Table 1**

Web Site Support	
Main Site	<a href="http://www.arubanetworks.com">http://www.arubanetworks.com</a>
Support Site	<a href="https://support.arubanetworks.com">https://support.arubanetworks.com</a>
Software Licensing Site	<a href="https://licensing.arubanetworks.com/login.php">https://licensing.arubanetworks.com/login.php</a>
Wireless Security Incident Response Team (WSIRT)	<a href="http://www.arubanetworks.com/support/wsirt.php">http://www.arubanetworks.com/support/wsirt.php</a>
Americas and APAC Support Email	<a href="mailto:support@arubanetworks.com">support@arubanetworks.com</a>
EMEA Support Email	<a href="mailto:emea.support@arubanetworks.com">emea.support@arubanetworks.com</a>
WSIRT Email	<a href="mailto:wsirt@arubanetworks.com">wsirt@arubanetworks.com</a>
WSIRT Email Please email details of any security problem found in an Aruba product.	

**Table 2**

Telephone Support	
Aruba Corporate	+1 (408) 227-4500
FAX	+1 (408) 227-4550

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### Open Source Code

Certain Aruba products include Open Source software code developed by third parties, including software code subject to the GNU General Public License ("GPL"), GNU Lesser General Public License ("LGPL"), or other Open Source Licenses. The Open Source code used can be found at this site: [http://www.arubanetworks.com/open\\_source](http://www.arubanetworks.com/open_source)

### Legal Notice

The use of Aruba Networks, Inc. switching platforms and software, by all individuals or corporations, to terminate other vendors' VPN client devices constitutes complete acceptance of liability by that individual or corporation for this action and indemnifies, in full, Aruba Networks, Inc. from any and all legal actions that might be taken against it with respect to infringement of copyright on behalf of those vendors.

### Warranty

This hardware product is protected by the standard Aruba warranty of one year parts/labor. For more information, refer to the ARUBACARE SERVICE AND SUPPORT TERMS AND CONDITIONS. Altering this device (such as painting it) voids the warranty.

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