

# Aruba 203H Access Point

## Installation Guide



a Hewlett Packard  
Enterprise company

The Aruba 203H access points (APs) are high-performance flex-radio (software configurable as either single radio dual-band or dual radio) wireless devices for hospitality and branch deployments. These access points use Multiple-Input, Multiple-Output (MIMO) technology to provide secure wireless connectivity for both 2.4GHz 802.11 b/g/n and 5GHz 802.11 a/n/ac WiFi.



This device must be professionally installed and serviced by a trained ACMP or similar Aruba-certified technician. Aruba access points are classified as radio transmission devices, and are subject to government regulations of the host country. The network administrator(s) is/are responsible for ensuring that configuration and operation of this equipment is in compliance with their country's regulations. For complete list of approved channels in your country of the AP-304 and AP-305 access points, refer to the *Aruba Downloadable Regulatory Table* at [support.arubanetworks.com](http://support.arubanetworks.com).

### Package Contents

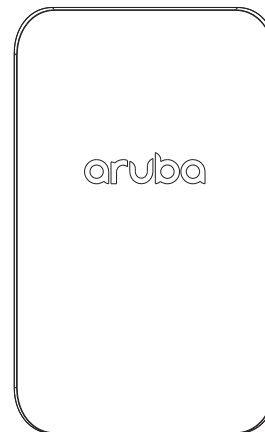
- 203H access point
- Single gang wall-box mounting bracket
- 2x #6-32 machine screws
- Release key.



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.

### 203H Hardware Overview

Figure 1 Front



### LEDs

The 203H has three LEDs that indicate the system, radio and E1 port status of the device. These LEDs can be configured via software into three separate modes:

- Normal mode (by default): See [Table 1](#)
- Off mode: All LEDs off
- Blink mode: All LEDs blink green (synchronized)

Table 1 203H LEDs Status in Normal Mode

LED	Color/State	Meaning
System	Off	Device powered off
	Green-Blinking	Device booting, not ready for use
	Green- Solid	Device ready for use, no restrictions
	Green-Flashing	Device ready for use, uplink negotiated in sub optimal speed (<1Gbps)
	Red- Solid	System error condition
Radio	Off	Device powered off, or both radios disabled
	Green- Solid	Both radios enabled in access mode
	Green-Blinking	One radio enabled in access mode
	Amber- Solid	Both radios enabled in monitor mode
	Amber-Blinking	One radio enabled in monitor mode
	Alternating	One radio enabled in access mode, other in monitor mode
E1	Off	Device powered off, port disabled, or no link established
	Green- Solid	Link established
	Green-Blinking	Activity

Figure 2 Bottom

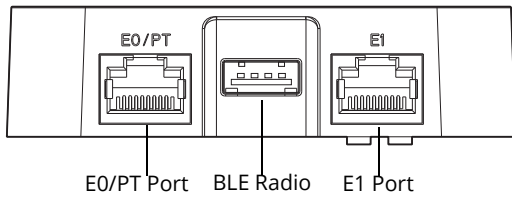
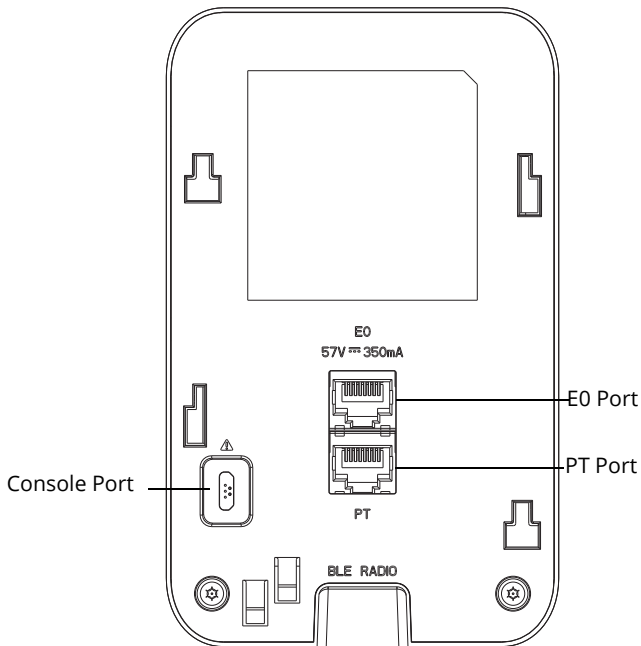


Figure 3 Back



### Ethernet Port

The 203H access point is equipped with two Ethernet ports (E0 and E1). The E0 is a 10/100/1000 Base-T auto-sensing MDI/MDX wired-network uplink connectivity port. It supports IEEE 802.3af Powerover Ethernet (PoE), accepting 48V DC as a standard powered device (PD) from power sourcing equipment (PSE), including PoE midspan injector or a PoE-sourcing network infrastructure.

The E1 is a 10/100/1000 Base-T auto-sensing MDI/MDX wired-network downlink connectivity port, used to provide secure network connectivity to wired devices.

The E0/PT port can serve as an E0 uplink port and accepts 802.3af PoE power when the Pass-Through (PT) and E0 ports are physically bridged by an AP-CBL-Eth10 Ethernet cable (sold separately).

### BLE Radio Port

The 203H is equipped with a BLE radio port compatible with Bluetooth Low Energy (BLE) dongles. This BLE radio port supports Aruba USB Beacons.

### Console Port

The serial console port is a 4-pin connector covered by a dust cover. An optional serial adapter cable (AP-CBL-SER) is sold separately to connect the device to a serial terminal or a laptop for direct local management.

### Reset/LED Control Button

To reset the 203H access points to factory default settings, press and hold down the reset button using a small, narrow object such as a paper clip for several seconds while the device is being powered on, or for more than 10 seconds during normal operation.

To turn off/on the LED display, press this button using a small, narrow object such as a paper clip for less than 10 seconds during normal operation.

### Before You Begin



**FCC Statement:** Improper termination of access points installed in the United States configured to non-US model controllers 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 *ArubaOS User Guide/Aruba Instant User Guide* for details on restrictions.

Produit réseau local radio basse puissance operant dans la bande fréquence 2.4 GHz et 5 GHz. Merci de vous référer au *ArubaOS User Guide/Aruba Instant User Guide* pour les détails des restrictions.



Low Power FunkLAN Produkt, das im 2.4 GHz und im 5 GHz Band arbeitet. Weitere Informationen bezüglich Einschränkungen finden Sie im *ArubaOS User Guide/Aruba Instant User Guide*.

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

### Pre-Installation Network Requirements



The instructions in this section are applicable to the AP-203H only.

After WLAN planning is complete and the appropriate products and their placement have been determined, the Aruba controller(s) must be installed and initial setup performed before the Aruba access points are deployed.

For initial setup of the controller, refer to the *ArubaOS Quick Start Guide* for the software version installed on your controller.

### Pre-Installation Checklist

Before installing your 203H access points, ensure that you have the following:

- Pre-installed wall box
- Cat5E or better UTP cable with network access installed in the wall box

- One of the following power sources:
  - IEEE 802.3af-compliant Power over Ethernet (PoE) source.

For AP-203H only:

- Aruba Controller provisioned on the network:
  - Layer 2/3 network connectivity to your access point
- One of the following network services:
  - Aruba Discovery Protocol (ADP)
  - DNS server with an "A" record
  - DHCP Server with vendor-specific options



Aruba Networks, Inc., in compliance with governmental requirements, has designed the 203H access points so that only authorized network administrators can change the settings. For more information about access point configuration, refer to the *ArubaOS Quick Start Guide /Aruba Instant Quick Start Guide* and *ArubaOS User Guide/Aruba Instant User Guide*.

## Verifying Pre-Installation Connectivity



The instructions in this section are applicable to the AP-203H only.

Before installing access points in a network environment, make sure that they are able to locate and connect to the controller after power on.

Specifically, you must verify the following conditions:

- When connected to the network, each access point is assigned a valid IP address
- Access points are able to locate the controller

Refer to the *ArubaOS Quick Start Guide* for instructions on locating and connecting to the controller.

## Identifying Specific Installation Locations

Use the access point placement map generated by Aruba's RF 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 RF absorbers/reflectors/interference sources will impact RF propagation and should have been accounted for during the planning phase and adjusted for in RF plan.

### Identifying Known RF Absorbers, Reflectors and 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 access point to its fixed location. Examples of sources that degrade RF performance include:

- Cement and brick
- Objects that contain water
- Metal
- Microwave ovens

- Wireless phones and headsets

## Installing the Access Point



Service to all Aruba Networks products should be performed by an AMCP certified technician or similar.

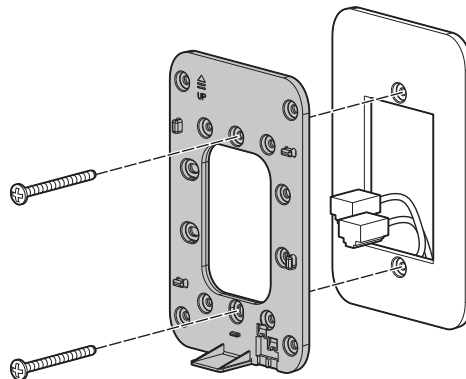
The 203H access point is designed to mount into a variety of electrical gang boxes.

1. Remove the existing data wall plate (if applicable).
2. Remove any existing RJ45 connectors (typically snap-in) or cut/remove the UTP cable.
3. Use a short Ethernet cable (sold separately), connect the E0 port to an RJ45 connector, or crimp an RJ45 plug (not supplied) on the cable and insert into the E0 port. Do the same for the pass through port, if used.
4. Depending on the types of your wall boxes, you can choose different holes from the mounting bracket to attach the bracket onto the wall box (see [Figure 4](#) and [Figure 5](#)).

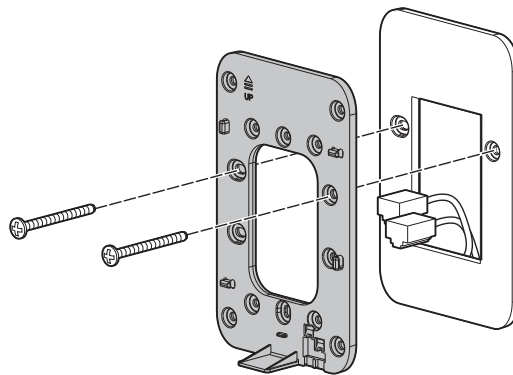
The applicable standards for the wall boxes are:

- IEC 60670-1, GB17466, BS4662 and DIN49073 for Worldwide
- ANSI/NEMA OS 1 and OS 2 for US

**Figure 4** Securing Bracket to US Single Gang Wall Box



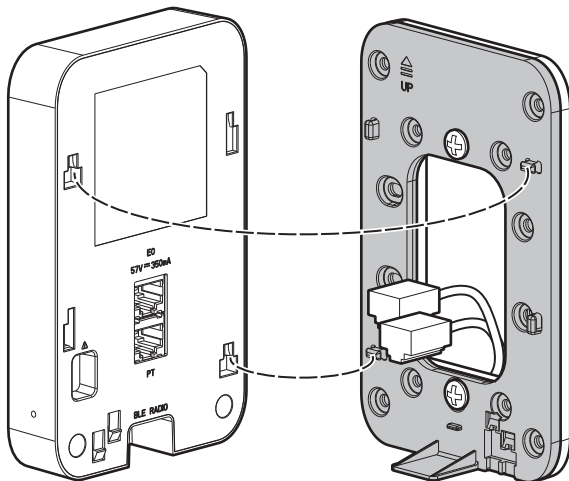
**Figure 5** Securing Bracket to Worldwide Single Gang Wall Box



5. Align the mounting holes of the mounting bracket with the mounting holes on the wall box. Insert the two included machine screws and tighten them to secure the mounting bracket.

- Connect any required cables to the back of the 203H access point.
- Align the mounting slots on the back of the access point over the corresponding mounting posts on the bracket and slide the access point into place (see [Figure 6](#)).

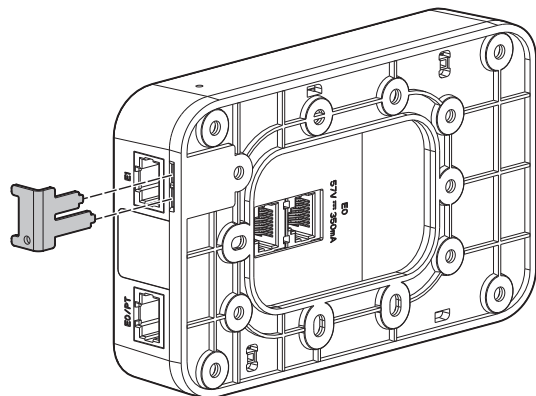
**Figure 6** *Securing the 203H Access Point to the Bracket*



### Removing the Access Point from the Bracket

Insert the included security key into the holes at the bottom of the bracket and push the access point up to release it from the bracket (see [Figure 7](#)).

**Figure 7** *Removing the 203H Access Point from the Bracket*



### Connecting Required Cables

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

### Verifying Post-Installation Connectivity

The integrated LEDs on the access point can be used to verify that the access point is receiving power and initializing successfully (see [Table 1](#)). Refer to the *ArubaOS Quick Start Guide/Aruba Instant Quick Start Guide* for further details on verifying post-installation network connectivity.



For instruction on the access point configuration, please refer to the ArubaOS User Guide.

## Contacting Aruba Networks

Website Support	
Main Site	<a href="http://arubanetworks.com">arubanetworks.com</a>
Support Site	<a href="http://support.arubanetworks.com">support.arubanetworks.com</a>
Airheads Social Forums and Knowledge Base	<a href="http://community.arubanetworks.com">community.arubanetworks.com</a>
North American Telephone	1-800-943-4526 (Toll Free) 1-408-754-1200
International Telephones	<a href="http://arubanetworks.com/support-services/contact-support/">arubanetworks.com/support-services/contact-support/</a>
Software Licensing Site	<a href="http://hpe.com/networking/support">hpe.com/networking/support</a>
End of Support Information	<a href="http://arubanetworks.com/support-services/end-of-life-products/end-of-life-policy/">arubanetworks.com/support-services/end-of-life-products/end-of-life-policy/</a>
Security Incident Response Team (SIRT)	<a href="http://arubanetworks.com/support-service/security-bulletins/">arubanetworks.com/support-service/security-bulletins/</a>
Support Email Addresses	
Americas, EMEA, and APAC	<a href="mailto:support@arubanetworks.com">support@arubanetworks.com</a>
Security Incident Response Team (SIRT)	<a href="mailto:sirt@arubanetworks.com">sirt@arubanetworks.com</a>

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Hewlett Packard Enterprise Company  
Attn: General Counsel  
3000 Hanover Street  
Palo Alto, CA 94304  
USA

## Warranty

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