

Overview

Aruba 203H Series Hospitality Access Points

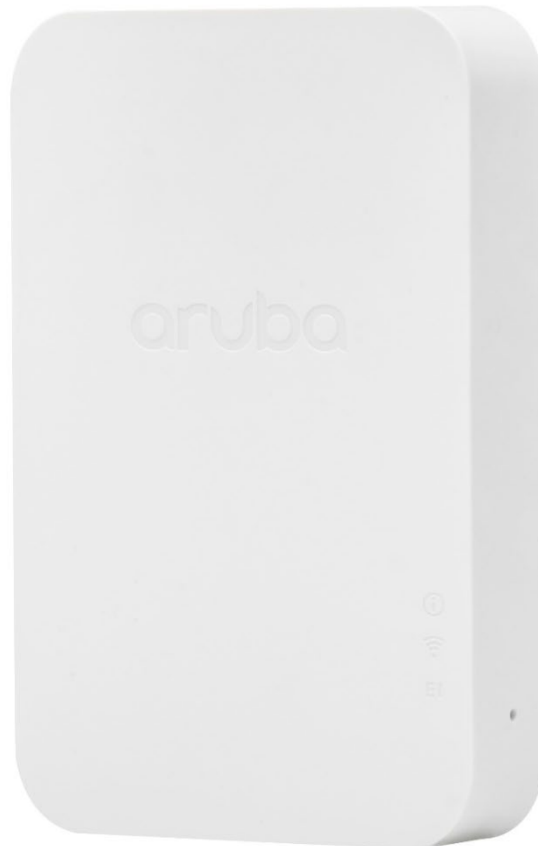
Cost-effective 802.11ac access point for branch offices and hospitality environments

This cost-effective IEEE 802.11ac access point with single or dual radio mode delivers high performance Wi-Fi networks for hospitality and branch offices, while minimizing costs for low to moderate density areas.

The compact Aruba 203H Unified Hospitality Access Point is software configurable to operate in either 1x1 dual radio mode, or 2x2 single radio mode. It supports up to 867Mbps in the 5GHz band or up to 400Mbps in the 2.4 GHz band in single radio 2x2 mode. In dual radio 1x1 mode, the maximum data rates for the 203H AP are up to 433Mbps in the 5GHz band and 200Mbps in the 2.4GHz band.

The 203H AP can be easily mounted to a standard data wall-box using the existing structured cabling system or converted to a desk mounted AP using an optional mounting kit. With its flexible deployment options, the 203H is designed to deliver high-speed Wi-Fi for cost-sensitive, medium-density environments. It ensures the most cost-effective Wi-Fi connectivity for indoor premises including hotel rooms, dormitories, small offices and remote workstations.

Powered by PoE, the 203H AP minimizes power consumption with rich features that further facilitates a highly efficient and reliable wireless network. The 802.11ac 203H AP combines wireless and wired access in a single compact device. The local Gigabit Ethernet port can securely attach wired devices to your network. Additionally, the USB host interface on the AP allows the plug-in of Aruba BLE radio modules to enable advanced location and indoor wayfinding, and proximity-based push notification services.



Aruba 203H Series Hospitality Access Points

Standard Features

Unique Benefits

- **Two Devices In One**
 - The 203H ships with everything you need to deploy as a wall-mounted (hospitality) AP, attaching directly to a standard single-gang data wall-box. The 203H can also be easily converted to a desk mounted (remote) AP, using an optional accessory stand.
 - **Deploy With Or Without Controller**
 - The 203H can be deployed in either controller-based (ArubaOS) or controller-less (InstantOS) deployment mode.
 - **New 802.11ac Flexible Radio Architecture**
 - The 203H AP is software configurable to operate in either 1x1 dual radio mode, or 2x2 single radio dual-band mode.
 - Supports up to 867Mbps in the 5GHz band (with 2SS/VHT80 clients) or up to 400Mbps in the 2.4 GHz band (with 2SS/VHT40 clients). In 1x1 dual radio mode, these max speeds are up to 433Mbps and 200Mbps respectively.
 - **Optional Bluetooth Low-Energy (BLE) Radio Module Support**
 - Enables location-based services and other capabilities.
 - USB BLE radio module securely attaches to AP
 - **RF Management**
 - Adaptive Radio Management (ARM) technology automatically assigns channel and power settings, provides airtime fairness and ensures that APs stay clear of all sources of RF interference to deliver reliable, high-performance WLANs
 - The 203H can be configured to provide part-time or dedicated air monitoring for wireless intrusion protection, VPN tunnels to extend remote locations to corporate resources, and wireless mesh connections where Ethernet drops are not available.
 - **Security**
 - Integrated wireless intrusion protection offers threat protection and mitigation, and eliminates the need for separate RF sensors and security appliances.
 - IP reputation and security services identify, classify, and block malicious files, URLs and IPs, providing comprehensive protection against advanced online threats.
 - **Intelligent App Visibility And Control**
 - AppRF technology leverages deep packet inspection to classify and block, prioritize, or limit bandwidth for thousands of applications in a range of categories.
 - **Quality Of Service For Unified Communication Apps**
 - Supports priority handling and policy enforcement for unified communication apps, including Microsoft Skype for Business with encrypted videoconferencing, voice, chat and desktop sharing
-

203H Access Point Specifications

- Unified flexible radio 802.11ac 2x2:2SS hospitality and branch AP with internal antennas
 - Supports wall-box and desk mount deployments
-

WiFi Antennas

- Two integrated dual-band moderately directional antennas for 2x2 MIMO with maximum individual antenna gain of 4.3dBi in 2.4GHz and 6.3dBi in 5GHz. Built-in antennas are optimized for vertical orientation of the AP. The horizontal beamwidth is roughly 120 degrees.
 - Combining the patterns of each of the antennas of the MIMO radios (in 2x2 mode), the peak gain of the effective per-antenna pattern is 3.8dBi in 2.4GHz and 4dBi in 5GHz.
-



Standard Features

Mounting

- The AP ships with a mounting plate to attach the AP to a single-gang wall-box (most international variations covered). The AP securely attaches to the plate; a custom security tool to remove the AP from the plate ships with the product.
 - Several optional mount kits are available to attach the AP to a dual-gang wall-box, directly to the wall, or to support desk mounting.
-

Choose Your Operating Mode

Aruba APs offer a choice of deployment and operating modes to meet your unique management and deployment requirements:

- The 203H AP is the unified AP that supports both controller-based and controller-less deployment modes, providing maximum flexibility
- Controller-based mode: When deployed in conjunction with an Aruba Mobility Controller, Aruba APs offer centralized configuration, data encryption, policy enforcement and network services, as well as distributed and centralized traffic forwarding.
- Controller-less (Instant) mode: The controller function is virtualized in a cluster of APs in Instant mode. As the network grows and/or requirements change, Instant deployments can easily migrate to controller-based mode.
- Remote AP (RAP) mode for branch deployments
- Air monitor (AM) for wireless IDS, rogue detection and containment
- Secure enterprise mesh

For large installations across multiple sites, the Aruba Activate service significantly reduces deployment time by automating device provisioning, firmware upgrades, and inventory management. With Aruba Activate, APs in Instant mode can configure themselves when powered up.

Other Interfaces

- Uplink: 10/100/1000BASE-T Ethernet (RJ-45, back)
 - Auto-sensing link speed and MDI/MDX
 - 802.3az Energy Efficient Ethernet (EEE)
 - PoE-PD (input): 48 Vdc (nominal) 802.3af/at PoE
 - Local: 10/100/1000BASE-T Ethernet (RJ-45, bottom)
 - Auto-sensing link speed and MDI/MDX
 - 802.3az Energy Efficient Ethernet (EEE)
 - Passive pass-through interface (two RJ-45, back and bottom)
 - USB host interface (Type A connector)
 - For Aruba LS-BT1USB BLE radio modules only
 - Visual indicators (LEDs):
 - Power/system status
 - Radio status
 - Local network port status
 - Reset/LED control button (“paperclip access”)
 - Factory reset (when activated during device power up)
 - LED control: toggle off/normal
 - Serial console interface (custom, uUSB physical jack)
-

Warranty

- **Aruba Limited lifetime warranty**
-

Minimum Software Versions

- ArubaOS™ 6.5.2.0/8.2.0.0
 - Aruba InstantOS™ 6.5.3.0/8.2.0.0
-



Configuration Information

Step 1: Select AP model

Remarks	Description	SKU
	Aruba AP-203H (RW) Flex-radio 802.11ac 2x2 Unified Hospitality AP with Internal Antennas	JY693A
	Aruba AP-203H (RW) TAA Flex-radio 802.11ac 2x2 Unified Hospitality AP with Internal Antennas	JY694A
	Aruba AP-203H (US) Flex-radio 802.11ac 2x2 Unified Hospitality AP with Internal Antennas	JY695A
	Aruba AP-203H (US) TAA Flex-radio 802.11ac 2x2 Unified Hospitality AP with Internal Antennas	JY696A
	Aruba AP-203H (JP) Flex-radio 802.11ac 2x2 Unified Hospitality AP with Internal Antennas	JY697A
	Aruba AP-203H (JP) TAA Flex-radio 802.11ac 2x2 Unified Hospitality AP with Internal Antennas	JY698A
	Aruba AP-203H (IL) Flex-radio 802.11ac 2x2 Unified Hospitality AP with Internal Antennas	JY699A
	Aruba AP-203H (IL) TAA Flex-radio 802.11ac 2x2 Unified Hospitality AP with Internal Antennas	JY700A
	Aruba AP-203H (EG) Flex-radio 802.11ac 2x2 Unified Hospitality AP with Internal Antennas	JY974A
	Aruba AP-203H (EG) TAA Flex-radio 802.11ac 2x2 Unified Hospitality AP with Internal Antennas	JY975A
203H Central Managed Unified Access Points		
	Aruba CM AP-203H (RW) Flex-radio 802.11ac 2x2 Unified Hospitality AP with Internal Antennas	JY693ACM
	Aruba CM AP-203H (US) Flex-radio 802.11ac 2x2 Unified Hospitality AP with Internal Antennas	JY695ACM

- Notes:**
- All models ship with a single gang wall-box mount bracket in the box
 - All models are orderable in multiples of 10 units only
 - Add POE power source

Step 2: Add powering accessories (optional)

Notes: Add AC power cord

Compatible with 203H AP models

AP-POE-AFGE 1-Port GbE 802.3af 15.4W midspan injector	R6P68A
Aruba PD-3510G-AC 15.4W 802.3af PoE 10/100/1000Base-T Ethernet Midspan Injector	JW627A

Compatible with 203HC AP models

Aruba CM PD-3501G-AC 15.4W 802.3af PoE 10/100/1000Base-T Ethernet Midspan Injector	JW627ACM
--	----------

Add 3-prong (C13) AC power cord for POE injector or AC adapter

PC-AC-ARG AC power cord 250V/10A 1.8m C13 to IRAM 2073	JW113A
PC-AC-AUS AC power cord 250V/10A 1.8m C13 to AS3112	JW114A
PC-AC-BR AC power cord 250V/10A 1.8m C13 to NBR 14136	JW115A
PC-AC-CHN AC power cord 250V/10A 1.8m C13 to GB2099	JW116A
PC-AC-DEN AC power cord 250V/10A 1.8m C13 to AFSNIT 107-2-D1	JW117A
PC-AC-EC AC power cord 250V/10A 1.8m C13 to CEE7/7	JW118A
PC-AC-IN AC power cord 250V/6A 1.8m C13 to IS1293	JW119A
PC-AC-IL AC power cord 250V/10A 1.8m C13 to SI32	JW120A
PC-AC-IT AC power cord 250V/10A 1.8m C13 to CEI 23-50	JW121A
PC-AC-JPN AC power cord 125V/12A 1.8m C13 to JISC 8303	JW122A
PC-AC-KOR AC power cord 250V/7A 1.8m C13 to KSC 8305	JW123A
PC-AC-NA AC power cord 125V/10A 1.8m C13 to NEMA 5-15P	JW124A
PC-AC-SWI AC power cord 220V/10A 1.8m C13 to SEV 1011	JW125A
PC-AC-TW AC power cord 125V/7A 1.8m C13 to CNS 10917	JW126A
PC-AC-UK AC power cord 250V/10A 1.8m C13 to BS1363	JW127A
PC-AC-ZA AC power cord 250V/10A 1.8m C13 to SANS 164-1	JW128A

Configuration Information

Step 3: Add mount accessories (optional)

Remarks	Description	SKU
	Compatible with 203H AP models	
	AP-203H-MNT1 Kit with Spare Single-gang Wall-box Mount Adapter for 203H Series AP	JY701A
	AP-203H-MNTW Kit with Optional Wall or Dual-gang Box Mount Adapter for 203H Series AP	JY703A
	AP-203H-MNTD Kit with Optional Desk Mount Adapter for 203H Series AP	JY704A
	Compatible with 203HC AP models	
	Aruba CM AP-203H-MNT1 Kit with Spare Single-gang Wall-box Mount Adapter for 203H Series AP	JY701ACM
	Aruba CM AP-203H-MNTW Kit with Optional Wall or Dual-gang Box Mount Adapter for 203H Series AP	JY703ACM
	Aruba CM AP-203H-MNTD Kit with Optional Desk Mount Adapter for 203H Series AP	JY704ACM
Notes:	203H AP Unit ships with Single Gang Mount Bracket (JY701A)	

Step 4: Add USB BLE radio module (optional)

	Aruba LS-BT1USB-5 5-pack of USB Powered Aruba Beacons	JW315A
	Aruba LS-BT1USB-50 50-pack of USB Powered Aruba Beacons	JW316A

Step 5: Add other accessories (optional)

	Compatible with 203H AP models	
	AP-MOD-SERU Micro-USB TTL3.3V to RJ45 RS232 AP Console Adapter Module	R6Q99A
	AP-CBL-SERU Micro-USB TTL3.3V to USB2.0 AP Console Adapter Cable	JY728A
	Compatible with 203HC AP models	
	Aruba CM AP-CBL-SERU AP console adapter cable for custom micro-USB console port	JY728ACM

Notes: [Custom console port adapter](#)

Step 8: Add Software (Optional)

Remarks	Description	SKU
	Aruba Central AP Foundation 1 year Subscription E-STU	Q9Y58AAE
	Aruba Central AP Foundation 3 year Subscription E-STU	Q9Y59AAE
	Aruba Central AP Foundation 5 year Subscription E-STU	Q9Y60AAE
	Aruba Central AP Foundation 7 year Subscription E-STU	Q9Y61AAE
	Aruba Central AP Foundation 10 year Subscription E-STU	Q9Y62AAE
	Aruba Central AP Advanced 1yr Subscription E-STU	Q9Y63AAE
	Aruba Central AP Advanced 3yr Subscription E-STU	Q9Y64AAE
	Aruba Central AP Advanced 5yr Subscription E-STU	Q9Y65AAE
	Aruba Central AP Advanced 7yr Subscription E-STU	Q9Y66AAE
	Aruba Central AP Advanced 10yr Subscription E-STU	Q9Y67AAE
Notes:	Add the Central Cloud Skus to the Aruba Catalog as Standalone: Aruba > Network Management > Central > Cloud Services	
	Aruba Central On-Premises AP Foundation 1 year Subscription E-STU	R6U63AAE
	Aruba Central On-Premises AP Foundation 3 year Subscription E-STU	R6U64AAE
	Aruba Central On-Premises AP Foundation 5 year Subscription E-STU	R6U65AAE
	Aruba Central On-Premises AP Foundation 7 year Subscription E-STU	R6U66AAE
	Aruba Central On-Premises AP Foundation 10 year Subscription E-STU	R6U67AAE
Notes:	Add the Central On-Prem Skus to the Aruba Catalog as Standalone: Aruba > Network Management > Central > On-Prem Services	



Technical Specifications

RF performance table		
Band, rate	Maximum transmit power (dBm)per transmit chain	Receiver sensitivity (dBm)per receive chain
802.11b 2.4GHz		
1Mbps	18.0	-92.0
11Mbps	18.0	-88.0
802.11g 2.4GHz		
6Mbps	18.0	-88.0
54Mbps	18.0	-73.0
802.11n HT20 2.4GHz		
MCS0/8	17.0	-88.0
MCS7/15	17.0	
802.11n HT40 2.4GHz		
MCS0/8	17.0	-85.0
MCS7/15	17.0	-68.0
802.11a 5GHz		
6Mbps	16.0	-88.0
54Mbps	16.0	-72.0
802.11n HT20 5GHz		
MCS0/8	16.0	-88.0
MCS7/15	15.0	-70.0
802.11n HT40 5GHz		
MCS0/8	16.0	-85.0
MCS7/15	16.0	-67.0
802.11ac VHT20 5GHz		
MCS0	16.0	-88.0
MCS8	15.0	-65.0
802.11ac VHT40 5GHz		
MCS0	16.0	-85.0
MCS9	13.0	-62.0
802.11ac VHT80 5GHz		
MCS0	16.0	-82.0
MCS9	13.0	-59.0

Notes: Table shows the maximum capability of the hardware provided (excluding antenna gain). Maximum transmit power is limited by local regulatory settings.



Technical Specifications

WiFi Radio Specifications

- AP type: Indoor, flexible radio:
 - 5GHz 802.11ac 2x2 MIMO OR 2.4GHz 802.11n 2x2 MIMO
Notes: 256-QAM modulation (802.11ac) supported by the 2.4GHz radio as well
 - 5GHz 802.11ac 1x1 AND 2.4GHz 802.11n 1x1
- Software-configurable radio supports 5GHz (Radio 0) and/or 2.4GHz (Radio 1)
- 5GHz: Two spatial stream Single User (SU) MIMO for up to 867Mbps wireless data rate to individual 2x2 VHT80 client devices
- 2.4GHz: Two spatial stream Single User (SU) MIMO for up to 400Mbps wireless data rate to individual 2x2 VHT40 client devices (300Mbps for HT40 802.11n client devices)
- Support for up to 32 associated client devices per radio, and up to 8 BSSIDs per radio
- Supported frequency bands (country-specific restrictions apply):
 - 2.400 to 2.4835GHz
 - 5.150 to 5.250GHz
 - 5.250 to 5.350GHz
 - 5.470 to 5.725GHz
 - 5.725 to 5.850GHz
- Available channels: Dependent on configured regulatory domain
- Dynamic frequency selection (DFS) optimizes the use of available RF spectrum
- Supported radio technologies:
 - 802.11b: Direct-sequence spread-spectrum (DSSS)
 - 802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM)
- Supported modulation types:
 - 802.11b: BPSK, QPSK, CCK
 - 802.11a/g/n/ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
- Transmit power: Configurable in increments of 0.5 dBm
- Maximum (conducted) transmit power (limited by local regulatory requirements):
 - 2.4GHz band: +18 dBm per chain, +21 dBm aggregate (2x2 mode)
 - 5GHz band: +16 dBm per chain, +19 dBm aggregate (2x2 mode)
Notes: Conducted transmit power levels exclude antenna gain. For total (EIRP) transmit power, add antenna gain
- Maximum ratio combining (MRC) for improved receiver performance
- Cyclic delay/shift diversity (CDD/CSD) for improved downlink RF performance
- Short guard interval for 20MHz, 40MHz and 80MHz channels
- Space-time block coding (STBC) for increased range and improved reception
- Low-density parity check (LDPC) for high-efficiency error correction and increased throughput
- Transmit beam-forming (TxBF) for increased signal reliability and range (2x2 mode)
- Supported data rates (Mbps):
 - 802.11b: 1, 2, 5.5, 11
 - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
 - 802.11n: 6.5 to 300 (MCS0 to MCS15)
 - 802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS = 1 to 2 for VHT20/40/80)
- 802.11n high-throughput (HT) support: HT 20/40
- 802.11ac very high throughput (VHT) support: VHT 20/40/80
- 802.11n/ac packet aggregation: A-MPDU, A-MSDU

Encrypted Throughput

- Maximum IPsec encrypted wired throughput: 20Mbps

Technical Specifications

Mechanical

- Dimensions/weight (unit,including single-gang wall box mount plate):
 - 86mm (W) x 26.5mm (D) x 140mm (H)
 - 225g
 - Dimensions/weight (shipping):
 - 115mm (W) x 47mm (D) x 165mm (H)
 - 290g
-

Power Sources and Consumption

- The AP is powered through Power over Ethernet (PoE)
 - An optional PoE power injector is sold separately
 - Power over Ethernet (PoE): 48 Vdc (nominal) 802.3af/802.3at compliant source
 - Maximum (worst-case) power consumption: 7.4W
 - Includes up to 100mW for an attached USB BLE module
 - Maximum (worst-case) power consumption in idle mode: 3.9W.
-

Environmental

- Operating:
 - Temperature: 0° C to +40° C (+32° F to +104° F)
 - Humidity: 5% to 93% non-condensing
 - Storage and transportation:
 - Temperature: -40° C to +70° C (-40° F to +158° F)
-

Regulatory

- FCC/Industry of Canada
- CE Marked
- R&TTE Directive 1995/5/EC
- Low Voltage Directive 72/23/EEC
- EN 300 328
- EN 301 489
- EN 301 893
- UL/IEC/EN 60950
- EN 60601-1-1 and EN 60601-1-2

For more country-specific regulatory information and approvals, please see your Aruba representative.

Reliability

- MTBF: 780,000 hours (89 years) at +25C operating temperature
-

Regulatory Model Numbers

- AP-203H-xx (all variants): APINH203
-

Certifications

- CB Scheme Safety, cTUVus
 - UL2043 plenum rating
 - Wi-Fi Alliance (WFA) certified 802.11a/b/g/n/ac
-



Summary of Changes

Date	Version History	Action	Description of Change
15-Mar-2021	Version 9	Changed	SKUs were added in Configuration Information section.
08-Sep-2020	Version 8	Changed	Configuration Information section was updated. New SKUs were added.
04-Nov-2019	Version 7	Changed	Configuration Information section was updated New SKUs were added.
01-Oct-2018	Version 6	Changed	SKU descriptions updated.
18-Dec-2017	Version 5	Changed	Minor changes made on Features and Benefits
16-Oct-2017	Version 4	Changed	Minor edits on Features and Benefits
27-Jun-2017	Version 3	Changed	Features and Benefits updated
13-Feb-2017	Version 2	Change	Changes made in Configuration section
06-Feb-2017	Version 1	New	New QuickSpecs



Copyright

Make the right purchase decision.
Contact our presales specialists.



Chat



Email



Call



Get updates



© Copyright 2021 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

To learn more, visit: <http://www.hpe.com/networking>

a00000837enw - 15813 - Worldwide - V9 - 15-March-2021