Overview

Aruba 207 Series Access Points

Fast 802.11ac that's affordable for everyone

The affordable mid-range Aruba 207 Series access point delivers high performance 802.11ac for medium density enterprise environments. With the integrated BLE and supporting 802.3af power, the Aruba 207 Series AP enables enterprises to improve their work efficiency and productivity with the lowest TCO.

The compact Aruba 207 Series AP delivers a maximum concurrent data rate of 867Mbps in the 5GHz band and 400 Mbps in the 2.4GHz band (for an aggregate peak data rate of 1.3Gbps).

Featuring 2x2:2SS, VHT160MHz and increased operating temperature, the 207 AP is ideal for medium device density environments, such as schools, retail branches, warehouses, hotels and enterprise offices, where the environment is cost sensitive.

Aruba 207 Series Access Points

Standard Features

Features and Benefits

IoT platform capabilities
Like all Aruba Wi-Fi 6 APs, the 203R Series provides integrated Bluetooth capabilities to enable Meridian and IoT-based location services, asset tracking, and mobile engagement services. These features allow organizations to leverage the AP as an IoT platform, which eliminates the need for an overlay infrastructure and additional IT resources.

Unique Benefits

- Dual Radio 802.11ac Access Point
  - Supports up to 867Mbps in the 5GHz band (with 2SS/VHT80 clients) and up to 400Mbps in the 2.4GHz band (with 2SS/VHT40 clients).
- Built-in Bluetooth Low-Energy (BLE) radio
  - Enables location-based services with BLE-enabled mobile devices receiving signals from multiple Aruba Beacons at the same time.
  - Enables management of a network of Aruba Beacons
- Advanced Cellular Coexistence (ACC)
  - Minimizes interference from 3G/4G cellular networks, distributed antenna systems and commercial small cell/femtocell equipment.
- 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.
- 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 Aruba 207 Series APs 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.
- 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.
- 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.
  - Integrated Trusted Platform Module (TPM) for secure storage of credentials and keys

Mechanical

- Dimensions/weight (unit, excluding mount accessories):
  - 150mm x 150mm x 40mm
  - 380g
- Dimensions/weight (shipping):
  - 190mm x 180mm x 70mm
  - 590g

207 Series Access Point

- AP-207 (controller-managed) and IAP-207 (Instant):
  - 802.11ac - 5GHz 2x2 MIMO (867Mbps max rate) and 2.4GHz 2x2 MIMO (400Mbps max rate) radios, with a total of two integrated omni-directional downtilt dual-band antennas

Standard Features

Choose your Operating Mode

Aruba 207 Series APs offer a choice of operating modes to meet your unique management and deployment requirements.

- Controller-managed mode - When managed by Aruba Mobility Controllers, Aruba 207 Series APs offer centralized configuration, data encryption, policy enforcement and network services, as well as distributed and centralized traffic forwarding.
- Aruba Instant mode - In Aruba Instant mode, a single AP automatically distributes the network configuration to other Instant APs in the WLAN. Simply power-up one Instant AP, configure it over the air, and plug in the other APs - the entire process takes about five minutes. If WLAN requirements change, a built-in migration path allows 207 Series instant APs to become part of a WLAN that is managed by a Mobility Controller.
- Remote AP (RAP) 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, Instant APs are factory-shipped to any site and configure themselves when powered up.

Mounting

- The AP ships with two (white) mounting clips to attach to a 9/16-inch or 15/16-inch flat T-bar drop-tile ceiling.
- Several optional mount kits are available to attach the AP to a variety of surfaces; see the Ordering Information section below for details

Configuration Information

Ordering Guide

Step 1: Select AP Model

Remarks	Description	SKU
	Controller-based Access Points	
NOTE:	Add POE injector or AC adapter All models ship with ceiling rail adapters (for flat rails) in the box.	
	Aruba AP-207 802.11n/ac 2x2:2 Dual Radio Integrated Antenna AP	JX952A
	Aruba AP-207 TAA-compliant 802.11n/ac Dual 2x2:2 Dual Radio Integrated Antenna AP	JX953A

Step 2: Add Powering Accessories (Optional)

Select one of the following:

Remarks	Description	SKU
NOTE:	Add AC power cord	
	Aruba PD-3510G-AC 15.4W 802.3af PoE 10/100/1000Base-T Ethernet Midspan Injector	JW627A
	AP-AC-12V30B 12V/30W AC/DC Desktop Style 2.1/5.5/9.5mm Circular 90 Deg Plug DoE Level VI Adapter	JX990A
	AP-AC2-12B 12V/36W AC/DC desktop style power adapter with type B connector	R3K00A
	Select three-prong AC power cord for injector or AC adapter	
	PC-AC-ARG Argentina 220V AC 10A 2-meter AC Power Cord	JW113A
	PC-AC-AUS Australian AC Power Cord	JW114A
	PC-AC-BR Brazil AC Power Cord	JW115A
	PC-AC-CHN China AC Power Cord	JW116A
	PC-AC-DEN Denmark 220V AC 10A 2-meter AC Power Cord	JW117A
	PC-AC-EC Continental European/Schuko AC Power Cord	JW118A
	PC-AC-IN India AC Power Cord	JW119A
	PC-AC-IL Israel 250V AC 10A 2-meter AC Power Cord	JW120A
	PC-AC-IT Italian AC Power Cord	JW121A
	PC-AC-JP Japanese AC Power Cord	JW122A
	PC-AC-KOR Korea AC Power Cord	JW123A
	PC-AC-NA North America AC Power Cord	JW124A
	PC-AC-SWI Switzerland 220V AC 10A 2-meter AC Power Cord	JW125A
	PC-AC-TW Taiwan AC Power Cord	JW126A
	PC-AC-UK UK AC Power Cord	JW127A
	PC-AC-ZA South Africa 250V AC 10A 2-meter AC Power Cord	JW128A

Step 3: Add Mount Accessories (Optional)

Remarks	Description	SKU
	AP-220-MNT-C2 2x Ceiling Grid Rail Adapter for Interlude and Silhouette Mt Kit	JW045A
	AP-MNT-CM1 Industrial Grade Indoor Access Point Metal Suspended Ceiling Rail Mount Kit	JX961A
	AP-220-MNT-W1 Flat Surface Wall/Ceiling Black AP Basic Flat Surface Mount Kit	JW046A
	AP-220-MNT-W1W Flat Surface Wall/Ceiling White AP Basic Flat Surface Mount Kit	JW047A
	AP-220-MNT-W3 White Low Profile Box Style Secure Large Indoor AP Flat Surface Mount Kit	JY706A
	AP-MNT-W4 White Low Profile Basic AP Flat Surface Mount Kit	Q9U25A

Step 4: Add cosmetic snap-on cover (optional)

Remarks	Description	SKU
	207-CVR-20 20-pk for AP-207 with Holes for LED Indicators White Non-glossy Snap-on Covers	JX960A
NOTE:	One kit per 20 access points	

Technical Specifications

RF performance table		
Band, rate	**Maximum transmit power (dBm) per transmit chain**	**Receiver sensitivity (dBm) per receive chain**
802.11b 2.4GHz		
1 Mbps	18.0	-90.0
11 Mbps	18.0	-90.0
802.11g 2.4GHz		
6 Mbps	18.0	-90.0
54 Mbps	18.0	-75.0
802.11n HT20 2.4GHz		
MCS0/8	18.0	-90.0
MCS7/15	18.0	-71.0
802.11n HT40 2.4GHz		
MCS0/8	18.0	-87.0
MCS7/15	18.0	-68.0
802.11a 5GHz		
6 Mbps	18.0	-90.0
54 Mbps	17.5	-75.0
802.11n HT20 5 GHz		
MCS0/8	18.0	-91.0
MCS7/15	17.0	-71.0
802.11n HT40 5GHz		
MCS0/8	18.0	-87.0
MCS7/15	17.0	-68.0
802.11ac VHT20 5GHz (SU-MIMO)		
MCS0	18.0	-90.0
MCS8	16.0	-67.0
802.11ac VHT40 5GHz (SU-MIMO)		
MCS0	18.0	-87.0
MCS9	15.0	-62.0
802.11ac VHT80 5GHz (SU-MIMO)		
MCS0	18.0	-84.0
MCS9	15.0	-59.0

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

Technical Specifications

WI-FI Radio Specifications

- AP type: Indoor, dual radio, 5GHz 802.11ac 2x2 MIMO and 2.4GHz 802.11n 2x2 MIMO
- Software-configurable dual radio supports 5GHz (Radio 0) and 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 255 associated client devices per radio, and up to 16 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)
  - 5GHz band: +18 dBm per chain, +21 dBm aggregate (2x2)

    NOTE: Conducted transmit power levels exclude antenna gain. For total (EIRP) transmit power, add antenna gain
- Advanced Cellular Coexistence (ACC) minimizes interference from cellular networks
- 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
- 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

WI-FI Antennas

- AP-207/IAP-207: Two integrated dual-band downtilt omni-directional antennas for 2x2 MIMO with maximum antenna gain of 3.4dBi in 2.4GHz and 6.6dBi in 5GHz. Built-in antennas are optimized for horizontal ceiling mounted orientation of the AP. The downtilt angle for maximum gain is roughly 30 degrees.
  - The maximum gain of the combined (summed) antenna patterns for all elements operating in the same band is 5.2dBi in 2.4GHz and 7.5dBi in 5GHz.

Technical Specifications

Other Interfaces

- One 10/100/1000BASE-T Ethernet network interface (RJ-45)
  - Auto-sensing link speed and MDI/MDX
  - 802.3az Energy Efficient Ethernet (EEE)
- Bluetooth Low Energy (BLE) radio
  - Up to 3dBm transmit power (class 2) and -92dBm receive sensitivity
  - Integrated antenna with roughly 30 degrees downtilt and peak gain of 2.2dBi
- Visual indicators (multi-color LEDs): for System and Radio status
- Reset button: factory reset (during device power up)
- Serial console interface (proprietary; optional adapter cable available)
- Kensington security slot

Power Sources and Consumption

- The AP supports direct DC power and Power over Ethernet (POE)
- When both power sources are available, DC power takes priority over POE
- Power sources are sold separately
- Direct DC source: 12Vdc nominal, +/- 5%
  - Interface accepts 2.1/5.5-mm center-positive circular plug with 9.5-mm length
- Power over Ethernet (POE): 48 Vdc (nominal) 802.3af/802.3at compliant source
  - Unrestricted functionality with 802.3af POE
- Maximum (worst-case) power consumption: 12.3W (POE) or 10.1W (DC)
- Maximum (worst-case) power consumption in idle mode: 5.3W (POE) or 4.4W (DC)

Environmental

- Operating:
  - Temperature: 0° C to +50° C (+32° F to +122° F)
  - Humidity: 5% to 95% 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.

Regulatory Model Numbers

- AP-207 and IAP-207: APIN0207

Certifications

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

Technical Specifications

Warranty

- **Aruba Limited lifetime warranty**

Minimum Software Versions

- ArubaOS 6.5.1.0
- Aruba InstantOS 4.3.1.0

Summary of Changes

Date	Version History	Action	Description of Change
09-Dec-2019	Version 8	Changed	Overview section was updated.
04-Nov-2019	Version 7	Changed	New SKUS were added.
01-Oct-2018	Version 6	Changed	SKU descriptions updated.
07-May-2018	Version 5	Added	SKU added: Q9U25A
05-Feb-2018	Version 4	Changed	Features and Benefits updated
18-Dec-2017	Version 3	Changed	Minor changes made on Features and Benefits
23-Oct-2017	Version 2	Changed	Aruba information updated
01-Nov-2016	Version 1	New	New QuickSpecs

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