RETIRED: This document has been officially retired, and the base products listed herein are now considered obsolete and are no longer available for sale. Consequently, the information contained within may no longer be current. This document is provided exclusively for reference and informational purposes.

Overview

Aruba 310 Series Access Points

The Aruba 310 Series access points deliver high performance and superb user experience for mobile devices, Internet of Things (IoT) devices, and applications in dense office environments. Featuring the 4x4:4SS MU-MIMO capability, advanced Aruba ClientMatch radio management, and Aruba Beacon technologies, the 310 Series enables an all-wireless digital work environment in a cost-effective manner.

With a maximum concurrent data rate of 1,733 Mbps in the 5 GHz band and 300 Mbps in the 2.4 GHz band (for an aggregate peak data rate of 2.0 Gbps), the 310 Series.

APs can quickly add required capacities to your existing or new wireless networks. The mid-range 310 Series, with its single gigabit Ethernet uplink, is ideal for high device density environments, such as schools, retail branches, hotels and enterprise offices, where the organization is cost sensitive.

The high performance and high density 802.11ac 310 Series supports 160 MHz channel bandwidth (VHT160), multi-user MIMO (MU-MIMO) and 4 spatial streams (4SS). It provides simultaneous multicast data transmission to multiple devices, maximizing data throughput and improving network efficiency.

The 310 Series includes the enhanced ClientMatch technology that extends the client steering technology with MU-MIMO client awareness. It automatically identifies MU-MIMO capable mobile devices and steers those devices to the closest MU-MIMO capable Aruba access point. By grouping MU-MIMO capable mobile devices together, the network starts taking advantage of the simultaneous transmission to these devices, increasing its overall capacity. These dynamic roaming policies that are based on device types, help users achieve the best WLAN performance in a mixed device environment during the technology transition period.



Aruba 310 Series Access Points

Standard Features

IoT Platform Capabilities

Like all Aruba Wi-Fi 6 APs, the 310 Series provides integrated Bluetooth capabilities to enable Meridian and IoT-based location services, asset tracking, and mobile engagement services. For expanded use cases, an IoT expansion radio can be added to support the Zigbee protocol. 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 with Multi-User MIMO
  - Supports up to 1,733Mbps in the 5GHz band (with 4SS/VHT80 or 2SS/VHT160 clients) and up to 300 Mbps in the 2.4 GHz band (with 2SS/HT40 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.
- 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 310 series APs can be configured to provide part-time or dedicated air monitoring for spectrum analysis and wireless intrusion protection, VPN tunnels to extend remote locations to corporate resources, and wireless mesh connections where Ethernet drops are not available.
- Support for additional 5 GHz bands
  - Supports software upgrade to enable additional 5 GHz spectrums when governments expand available frequencies.
- 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.
- Aruba Secure Infrastructure
  - 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.
- Intelligent Power Monitoring (IPM):
  - Enables the AP to continuously monitor and report its actual power consumption and optionally make autonomous decisions to disable certain capabilities
  - For the 310 Series Access Points, the IPM power-save feature applies when the unit is powered by an 802.3af PoE source. By default, the USB interface will be the first feature to turn off if AP power consumption will exceed the available power budget. In rare cases it may be necessary to take additional power saving measures, but in most cases, the 310 Series APs will operate in unrestricted mode

Standard Features

Choose your Operating Mode

Aruba 310 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 310 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 310 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
- Spectrum analyzer, dedicated or hybrid, for identifying sources of RF interference
- 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.

310 Series Specifications

- AP-314 (controller-managed) and IAP-314 (Instant):
- 5GHz 802.11ac 4x4 MIMO (1,733 Mbps max rate) and 2.4 GHz 802.11n 2x2 MIMO (300 Mbps max rate) radios, with a total of four dual-band RP-SMA connectors for external antennas
- AP-315 (controller-managed) and IAP-315 (Instant):
  - 5GHz 802.11ac 4x4 MIMO (1,733 Mbps max rate) and 2.4 GHz 802.11n 2x2 MIMO (300 Mbps max rate) radios, with a total of four integrated omni-directional downtilt dual-band antennas

WI-FI Antennas

- AP-314/IAP-314: Four RP-SMA connectors for external dual band antennas. Worst-case internal loss between radio interface and external antenna connectors (due to diplexing circuitry): 0.6dB in 2.4 GHz and 1.2dB in 5 GHz.
- AP-315/IAP-315: Four integrated dual-band downtilt omni-directional antennas for 4x4 MIMO with maximum antenna gain of 3.6dBi in 2.4 GHz and 6.0dBi in 5 GHz. Built-in antennas are optimized for horizontal ceiling mounted orientation of the AP. The downtilt angle for maximum gain is roughly 30 degrees.
  - Combining the patterns of each of the antennas of the MIMO radios, the peak gain of the effective per-antenna pattern is 3.1dBi in 2.4 GHz and 3.8dBi in 5 GHz.

Other Interfaces

- One 10/100/1000BASE-T Ethernet network interfaces (RJ-45)
  - Auto-sensing link speed and MDI/MDX
  - 802.3az Energy Efficient Ethernet (EEE)
- USB 2.0 host interface (Type A connector)
- Bluetooth Low Energy (BLE) radio
  - Up to 4dBm transmit power (class 2) and -91dBm receive sensitivity
  - Integrated antenna with roughly 30 degrees downtilt and peak gain of 3.4dBi (AP-314/IAP-314) or 1.5dBi (AP-315/IAP-315)
- 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

Standard Features

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 802.3at PoE
  - When using IPM, the AP may enter power-save mode with reduced functionality when powered by an 802.3af PoE source (see details on Intelligent Power Monitoring elsewhere in this datasheet)
  - Without IPM, the USB port is disabled and transmit power of the 2.4 GHz radio chains is reduced by 3dB to 15dBm max when the AP is powered by and 802.3af PoE source
- Maximum (worst-case) power consumption: 14.4W (802.3at PoE), 13.6W (802.3af PoE) or 12.7W (DC)
  - Excludes power consumed by external USB device (and internal overhead); this could add up to 6.3W (PoE) or 5.9W (DC) for a 5W/1A USB device
- Maximum (worst-case) power consumption in idle mode: 6.4W (PoE) or 5.9W (DC)

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 for details.

Warranty

- **Aruba Limited lifetime warranty**

Minimum Operating System Software Versions

- ArubaOS 6.5.0.0
- Aruba InstantOS 4.3.0.0

Configuration Information

Step 1: Select AP Model

Remarks	Description	SKU
	314/315 Controller-Managed Access Points	
	Aruba AP-315 802.11n/ac 2x2:2/4x4:4 MU-MIMO Dual Radio Integrated Antenna AP	JW797A
	314/315 TAA Controller Based Access Points	
	Aruba AP-315 TAA-compliant 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Dual Radio Integrated Antenna AP	JW798A
	314/315 Instant Access Points	
	Aruba Instant IAP-315 (RW) 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Integrated Antenna AP	JW811A
	Aruba Instant IAP-315 (US) 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Integrated Antenna AP	JW813A
	Aruba Instant IAP-315 (JP) 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Integrated Antenna AP	JW810A
	314/315 TAA Instant Access Points	
	Aruba Instant IAP-315 (RW) TAA 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Integrated Ant AP	JW812A
	Aruba Instant IAP-315 (US) TAA 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Integrated Ant AP	JW814A

Notes:
- All models ship with ceiling rail adapters (for flat rails) in the box.
- Add PoE injector or AC adapter
- Add antenas if it is not integrated

Step 2: Add Powering Accessories (Optional)

Notes:
- If this Power Supply is selected, bring in (Min 1 // Max 1) Localized power cord based on the Aruba Localization Menu.
- Most devices are PoE powered from switch so these are optional

Compatible with the 314/315 AP

	AP-POE-ATSR 1-Port Smart Rate 802.3at 30W midspan injector	R6P67A
	AP-POE-AFGE 1-Port GbE 802.3af 15.4W midspan injector	R6P68A
	AP-AC2-12B 12V/48W AC/DC desktop style power adapter with 2.1/5.5mm connector	R3K00A

Add 3-prong AC power cord for injector or AC adapter

Remarks	Description	SKU
	PC-AC-ARG AC Power Cord (Argentina) 250V/10A 1.8m C13 to IRAM 2073	JW113A
	PC-AC-AUS AC Power Cord (Australia) 250V/10A 1.8m C13 to AS3112	JW114A
	PC-AC-BR AC Power Cord (Brazil) 250V/10A 1.8m C13 to NBR 14136	JW115A
	PC-AC-CHN AC Power Cord (China) 250V/10A 1.8m C13 to GB2099	JW116A
	PC-AC-DEN AC Power Cord (Denmark) 250V/10A 1.8m C13 to AFSNIT 107-2-D1	JW117A
	PC-AC-EC AC Power Cord (Europe) 250V/10A 1.8m C13 to CEE7/7	JW118A
	PC-AC-IN AC Power Cord (India) 250V/6A 1.8m C13 to IS1293	JW119A
	PC-AC-IL AC Power Cord (Israel) 250V/10A 1.8m C13 to SI32	JW120A
	PC-AC-IT AC Power Cord (Italy) 250V/10A 1.8m C13 to CEI 23-50	JW121A
	PC-AC-JPN AC Power Cord (Japan) 125V/12A 1.8m C13 to JISC 8303	JW122A
	PC-AC-KOR AC Power Cord (Korea) 250V/7A 1.8m C13 to KSC 8305	JW123A
	PC-AC-NA AC Power Cord (North America) 125V/10A 1.8m C13 to NEMA 5-15P	JW124A
	PC-AC-SWI AC Power Cord (Switzerland) 220V/10A 1.8m C13 to SEV 1011	JW125A
	PC-AC-TW AC Power Cord (Taiwan) 125V/7A 1.8m C13 to CNS 10917	JW126A
	PC-AC-UK AC Power Cord (United Kingdom) 250V/10A 1.8m C13 to BS1363	JW127A
	PC-AC-ZA AC Power Cord (South Africa) 250V/10A 1.8m C13 to SANS 164-1	JW128A

Step 3: Add Mount Accessories (Optional)

Notes: Unit ships with basic suspended ceiling rail clips.

Compatible with the 314, 315 AP

	AP-220-MNT-C2 2x Ceiling Grid Rail Adapter for Interlude and Silhouette Mt Kit	JW045A

Configuration Information

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-MNT-W4 White Low Profile Basic AP Flat Surface Mount Kit	Q9U25A

Step 4: Select Antennas (AP-314 Only)

AP-314 antenna interface: 4x RP-SMA female, concurrent dual-band.

Qty	Interface(s)	Target Environment	Mounting	Description	SKU
4	1x RP-SMA male connector	Indoor	Direct-mount	AP-ANT-1W 2.4-2.5GHz (4dBi)/4.9-5.875GHz (6dBi) Hi Gain Dual-band Omni-Dir Indoor Antenna	JW009A
4	1x RP-SMA male pigtail	Indoor	Direct, using pigtails	AP-ANT-13B 2.4-2.5GHz (2.3dBi)/4.9-5.9GHz (4.0dBi) Downtilt Smallest Omni-Dir Single Ant	JW001A
4	1x RP-SMA male pigtail	Indoor/outdoor	Direct, using pigtails	AP-ANT-19 2.4/5G Dual Band Omni-Dir 3dBi/6dBi Indr/Otdr RPSMA Cnctr Ant w/36in Intgrtd Cable	JW004A
4	1x RP-SMA male connector	Indoor	Direct-mount	AP-ANT-20W 2.4-2.5GHz (2dBi)/4.9-5.875GHz (2dBi) Compact Omni-Dir DMt Indr White Antenna	JW011A
1	4x RP-SMA male pigtail	Indoor	Direct, using pigtails	AP-ANT-40 Dual Band Downtilt Omni 4dBi 4 Elmt MIMO Ceiling Mount 4xRPSMA Pigtail Antenna	JW017A
1	4x RP-SMA male pigtail	Indoor/outdoor	Direct, using pigtails	AP-ANT-45 Dual Band 90x90deg 5dBi 4 Element MIMO 4xRPSMA Pigtail Antenna	JW018A
1	4x RP-SMA male pigtail	Indoor/outdoor	Direct, using pigtails	AP-ANT-48 Dual Band 60x60deg 8.5dBi 4 Element MIMO 4xRPSMA Pigtail Antenna	JW019A

Notes:
- AP-ANT-1W, and AP-ANT-20W are usually direct connect to the chassis
- AP-ANT-45,AP-ANT-48 ship with hardware for flush mount to a flat surface
- AP-314 has 4x RPSMA female, concurrent dual-band connections

Step 5: Add Antenna Mount Kit (Optional)

Remarks	Description	SKU
	Aruba AP-ANT-MNT-4 AZ/EL Adjustable Antenna Pole/Wall Mount Kit	JW021A
Notes:	Compatible with antenna AP-ANT-48	
	Aruba AP-ANT-MNT-5 AZ/EL Adjustable Antenna Pole/Wall Mount Kit	JW022A
Notes:	Compatible with antenna AP-ANT-45	

Step 6: Add other (Optional)

Aruba AP-USB-ZB External USB based Dongle with Zigbee and BLE for AP	R2X45A
Aruba AP-USB-ZB 10-pk External USB based Dongle with Zigbee and BLE for AP	R2Y09A
Aruba AP-USB-ZB 50-pk External USB based Dongle with Zigbee and BLE for AP	R2Y10A

Configuration Information

Software (Optional)

Remarks	Description	SKU
	Central	
	Cloud Services / Access Point Foundation Subscriptions	
2, 8	Aruba Central AP Foundation 1 year Subscription E-STU	Q9Y58AAE
2, 8	Aruba Central AP Foundation 3 year Subscription E-STU	Q9Y59AAE
2, 8	Aruba Central AP Foundation 5 year Subscription E-STU	Q9Y60AAE
2, 8	Aruba Central AP Foundation 7 year Subscription E-STU	Q9Y61AAE
2, 8	Aruba Central AP Foundation 10 year Subscription E-STU	Q9Y62AAE
	Cloud Services / Access Point Advanced Subscriptions	
2, 8	Aruba Central AP Advanced 1yr Subscription E-STU	Q9Y63AAE
2, 8	Aruba Central AP Advanced 3yr Subscription E-STU	Q9Y64AAE
2, 8	Aruba Central AP Advanced 5yr Subscription E-STU	Q9Y65AAE
2, 8	Aruba Central AP Advanced 7yr Subscription E-STU	Q9Y66AAE
2, 8	Aruba Central AP Advanced 10yr Subscription E-STU	Q9Y67AAE
	On-Prem Services / Access Point Foundation Subscriptions	
3, 8	Aruba Central On-Premises AP Foundation 1 year Subscription E-STU	R6U63AAE
3, 8	Aruba Central On-Premises AP Foundation 3 year Subscription E-STU	R6U64AAE
3, 8	Aruba Central On-Premises AP Foundation 5 year Subscription E-STU	R6U65AAE
3, 8	Aruba Central On-Premises AP Foundation 7 year Subscription E-STU	R6U66AAE
3, 8	Aruba Central On-Premises AP Foundation 10 year Subscription E-STU	R6U67AAE
	On-Prem Services / Access Point Foundation Subscriptions	
3, 8	Aruba Central On-Premises AP Foundation 1 year Subscription E-STU	R6U63AAE
3, 8	Aruba Central On-Premises AP Foundation 3 year Subscription E-STU	R6U64AAE
3, 8	Aruba Central On-Premises AP Foundation 5 year Subscription E-STU	R6U65AAE
3, 8	Aruba Central On-Premises AP Foundation 7 year Subscription E-STU	R6U66AAE
3, 8	Aruba Central On-Premises AP Foundation 10 year Subscription E-STU	R6U67AAE
	FedRAMP Services / Access Point Advanced Subscriptions	
6, 8	Aruba Central AP Advanced 1yr Subscription Government E-STU	R8K84AAE
6, 8	Aruba Central AP Advanced 3yr Subscription Government E-STU	R8K85AAE
6, 8	Aruba Central AP Advanced 5yr Subscription Government E-STU	R8K86AAE
6, 8	Aruba Central AP Advanced 7yr SubscriptionGovernment E-STU	R8K87AAE
6, 8	Aruba Central AP Advanced 10yr Subscription Government E-STU	R8K88AAE
	Configuration Rules	
Rule#	**Description**	**SKU**
2	Add the Central Cloud Skus to the Aruba Catalog as Standalone: Aruba > Network Management > Central > Cloud Services	
3	Add the Central On-Prem Skus to the Aruba Catalog as Standalone: Aruba > Network Management > Central > On-Prem Services	
6	Add the Central FedRAMP Service Skus to the Aruba Catalog as Standalone: Aruba > Network Management > Central > FedRAMP	
8	For OCA: When configuring the following AP 10-Pack, selection condition for this Subscription should be 0(default) or 10	
	Aruba Access Point-503 (RW) 10-Pack Dual Radio 2x2:2 802.11ax Wi-Fi 6 Campus Access Point	S1E83A
	Aruba Access Point-503 (US) 10-Pack Dual Radio 2x2:2 802.11ax Wi-Fi 6 Campus Access Point	S1E84A

Configuration Information

As-a-Service

	Central	
	Cloud Services / Access Point Foundation Subscriptions	
7	Aruba Central AP Foundation 1-year Subscription SaaS	Q9Y58AAS
7	Aruba Central AP Foundation 3-year Subscription SaaS	Q9Y59AAS
7	Aruba Central AP Foundation 5-year Subscription SaaS	Q9Y60AAS
7	Aruba Central AP Foundation 7-year Subscription SaaS	Q9Y61AAS
7	Aruba Central AP Foundation 10-year Subscription SaaS	Q9Y62AAS
	Cloud Services / Access Point Advanced Subscriptions	
7	Aruba Central AP Advanced 1-year Subscription SaaS	Q9Y63AAS
7	Aruba Central AP Advanced 3-year Subscription SaaS	Q9Y64AAS
7	Aruba Central AP Advanced 5-year Subscription SaaS	Q9Y65AAS
7	Aruba Central AP Advanced 7-year Subscription SaaS	Q9Y66AAS
7	Aruba Central AP Advanced 10-year Subscription SaaS	Q9Y67AAS
	Configuration Rules	
Rule#	**Description**	**SKU**
7	For IRIS reference only. No action required for OCX and Clic	

Technical Specifications

RF Performance Table		
	Maximum transmit power (dBm) per transmit chain	**Receiver sensitivity (dBm) per receive chain**
802.11b 2.4 GHz		
1 Mbps	18.0	-95.0
11 Mbps	18.0	-88.0
802.11g 2.4 GHz		
6 Mbps	18.0	-91.0
54 Mbps	16.0	-74.0
802.11n HT20 2.4 GHz		
MCS0/8	18.0	-90.0
MCS7/15	14.0	-71.0
802.11n HT40 2.4 GHz		
MCS0/8	18.0	-87.0
MCS7/15	14.0	-68.0
802.11a 5 GHz		
6 Mbps	18.0	-90.0
54 Mbps	16.0	-73.0
802.11n HT20 5 GHz		
MCS0/8/16/24	18.0	-90.0
MCS7/15/23/31	14.0	-71.0
802.11n HT40 5 GHz		
MCS0/8/16/24	18.0	-87.0
MCS7/15/23/31	14.0	-68.0
802.11ac VHT20 5 GHz		
MCS0	18.0	-90.0
MCS9	12.0	-65.0
802.11ac VHT40 5 GHz		
MCS0	18.0	-87.0
MCS9	12.0	-62.0
802.11ac VHT80 5 GHz		
MCS0	18.0	-83.0
MCS9	12.0	-59.0
802.11ac VHT160 5 GHz		
MCS0	18.0	-82.0
MCS9	12.0	-57.0

Notes: 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, 5 GHz 802.11ac 4x4 MIMO and 2.4 GHz 802.11n 2x2 MIMO
- Software-configurable dual radio supports 5 GHz (Radio 0) and 2.4 GHz (Radio 1)
- 5 GHz: Four spatial stream Single User (SU) MIMO for up to 1,733 Mbps wireless data rate to individual 4x4 VHT80 or 2x2 VHT160 client devices
- 2.4 GHz: Two spatial stream Single User (SU) MIMO for up to 300 Mbps wireless data rate to individual 2x2 HT40 client devices
- 5 GHz: Four spatial stream Multi User (MU) MIMO for up to 1,733 Mbps wireless data rate to up to three MU-MIMO capable client devices simultaneously
- 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 2.4835 GHz
  - 5.150 to 5.250 GHz
  - 5.250 to 5.350 GHz
  - 5.470 to 5.725 GHz
  - 5.725 to 5.850 GHz
- 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):
  - 2.4 GHz band: +18 dBm per chain,+21dBm aggregate (2x2)
  - 5 GHz band: +18 dBm per chain, +24dBm aggregate (4x4
    Notes: 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 20-MHz, 40-MHz, 80-MHz and 160-MHz 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 (5GHz): 6.5 to 600 (MCS0 to MCS31)
  - 802.11n (2.45GHz): 6.5 to 300 (MCS0 to MCS15)
  - 802.11ac: 6.5 to 1,733 (MCS0 to MCS9, NSS = 1 to 4 for VHT20/40/80, NSS = 1 to 2 for VHT160)
- 802.11n high-throughput (HT) support: HT 20/40
- 802.11ac very high throughput (VHT) support: VHT 20/40/80/160
- 802.11n/ac packet aggregation: A-MPDU, A-MSDU

Technical Specifications

Mechanical

- Dimensions/weight (unit, excluding mount accessories):
  - 182mm (W) x 180mm (D) x 48mm (H)
  - 650g/23oz
- Dimensions/weight (shipping):
  - 223mm (W) x 218mm (D) x 55mm (H)
  - 850g/30oz

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, EN60601-1-2

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

Reliability

- MTBF: 916,373 hrs (105yrs) at +25C operating temperature

Regulatory Model Numbers

- AP-314 and IAP-314: APIN0314
- AP-315 and IAP-315: APIN0315

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
07-Aug-2023	Version 16	Changed	Configuration Information section was updated.
15-Mar-2021	Version 15	Changed	Central Software SKUs were added in Configuration Information section.
08-Sep-2020	Version 14	Changed	Configuration Information section was updated. New SKUs were added.
09-Dec-2019	Version 13	Changed	Overview section was updated.
04-Nov-2019	Version 12	Changed	Configuration Information section was updated. New SKUs were added.
07-Oct-2019	Version 11	Changed	Overview, Standard Features and Configuration Information sections were updated. New SKUs were added.
15-Apr-2019	Version 10	Changed	Standard Features section was updated.
04-Mar-2019	Version 9	Changed	Configuration section was updated.
01-Oct-2018	Version 8	Changed	SKU descriptions updated.
04-Jun-2018	Version 7	Added	SKU added: R0G64A
07-May-2018	Version 6	Added	SKU added: Q9U25A
18-Dec-2017	Version 5	Changed	Minor changes made on Features and Benefits
23-Oct-2017	Version 4	Changed	Updates made on Features and Benefits
06-Mar-2017	Version 3	Changed	Updates made on Configuration section
13-Feb-2017	Version 2	Changed	Updates made on Configuration section
01-Nov-2016	Version 1	New	New QuickSpecs

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