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 318 Series Access Points

The ruggedized Aruba 318 Series access points deliver Wi-Fi 5 (802.11ac Wave 2) gigabit performance for client devices in harsh, weather-protected environments such as warehouses, industrial freezers or stadiums.

With a maximum concurrent data rate of 2 Gbps (5GHz: 1,733 Mbps and 2.4GHz: 300 Mbps), the 318 Series can quickly add capacity to existing or new wireless networks in temperature-sensitive, dust-ridden, or other extreme environments. The 318 Series also comes with multi-user MIMO (MU-MIMO), 4 spatial streams (4SS), and optional 160 MHz channel bandwidth (VHT160) for the highest performance and density applications.



802.11ac Wave 2 for harsh, weather-protected environments

Standard Features

Unique Benefits

- WPA3 and Enhanced Open
  - Support for stronger encryption and authentication is provided via the latest version of WPA for enterprise protected networks.
  - Enhanced Open offers seamless new protection for users connecting to open networks where each session is automatically encrypted to protect user passwords and data on guest networks.
- WPA2-MPSK
  - MPSK enables simpler passkey management for WPA2 devices – should the Wi-Fi password on one device or device type change, no additional changes are needed for other devices. Requires ClearPass Policy Manager.
- VPN tunnels
  - In Remote AP (RAP) and IAP-VPN deployments, the Aruba 318 Series can be used to establish a secure SSL/IPSec VPN tunnel to a Mobility Controller that is acting as a VPN concentrator.
- Trusted Platform Module (TPM)
  - For enhanced device assurance, all Aruba APs have an installed TPM for secure storage of credentials and keys, and boot code.
- Flexible operation and management
  - Controller-less (Instant) mode - For enhanced device assurance, all Aruba APs have an installed TPM for secure storage of credentials and keys, and boot code.
  - Mobility Controller mode - For optimized network performance, roaming and security, APs tunnel all traffic to a mobility controller for centrally managed traffic forwarding and segmentation, data encryption, and policy enforcement.
  - Other management options - Available management solutions include Aruba Central (cloud-managed) or Aruba AirWave – a multi-vendor on-premises management solution. For large installations across multiple sites, APs can be factory-shipped and can be activated with Zero Touch Provisioning through Aruba Central or AirWave. This reduces deployment time, centralizes configuration, and helps manage inventory.

MU-MIMO aware client optimization

The 318 Series includes Aruba's patented ClientMatch technology to eliminate sticky client issues while optimizing 802.11ac Wave 2 performance. These APs continuously gather session performance metrics to steer mobile devices to the best-available AP - even while users roam. With MU-MIMO awareness, ClientMatch can group MU-MIMO capable devices together to increase network capacity and efficiency. ClientMatch also participates in Aruba's AI-powered Mobility solution.

IoT-ready

Like all Aruba Wi-Fi 6 APs, the 318 Series includes an integrated Bluetooth Low Energy radio to simplify the deployment and management of location services, asset tracking services, security solutions and IoT sensors. This allows organizations to leverage the 318 Series as an IoT platform, which eliminates the need for an overlay infrastructure and additional IT resources.

Simple and secure access

To simplify policy enforcement, the Aruba 318 Series uses Aruba's policy enforcement firewall (PEF) feature to encapsulate all traffic from the AP to the Mobility Controller (or Gateway) for end-to-end encryption and inspection. Policies are applied based on user role, device type, applications, and location. This reduces the manual configuration of SSIDs, VLANs and ACLs. PEF also serves as the underlying technology for Aruba Dynamic Segmentation..

Zero Touch Provisioning

APs can be factory-shipped and zero-touch provisioned through Aruba Central or AirWave using a cloud-based service to reduce deployment time, centralize configuration, and manage inventory.

Standard Features

Advanced Cellular Coexistence (ACC)

Minimizes interference from 3G/4G LTE cellular networks, distributed antenna systems (DAS), and commercial small cell or femtocell equipment.

Hardened, industrial design

Extends the temperature range capabilities of indoor access points for environments that lack heating and cooling. It also provides sealed connector interfaces to protect against dust and moisture.

Configuration Information

BTO Models

Remarks	Description	SKU
	318 Unified Hardened Access Points	
	Aruba AP-318 (EG) 802.11n/ac Dual 2x2:2/4x4:4 Radio 6xRPSMA Connectors Indoor Hardened AP	JZ149A
	Aruba AP-318 (IL) 802.11n/ac Dual 2x2:2/4x4:4 Radio 6xRPSMA Connectors Indoor Hardened AP	JZ150A
	Aruba AP-318 (JP) 802.11n/ac Dual 2x2:2/4x4:4 Radio 6xRPSMA Connectors Indoor Hardened AP	JZ151A
	Aruba AP-318 (RW) 802.11n/ac Dual 2x2:2/4x4:4 Radio 6xRPSMA Connectors Indoor Hardened AP	JZ152A
	Aruba AP-318 (US) 802.11n/ac Dual 2x2:2/4x4:4 Radio 6xRPSMA Connectors Indoor Hardened AP	JZ153A
	318 Unified Hardened Access Points TAA	
	Aruba AP-318 (EG) FIPS/TAA 802.11n/ac Dual 2x2:2/4x4:4 Radio 6xRPSMA Connectors Indoor Hardened AP	JZ154A
	Aruba AP-318 (IL) FIPS/TAA 802.11n/ac Dual 2x2:2/4x4:4 Radio 6xRPSMA Connectors Indoor Hardened AP	JZ155A
	Aruba AP-318 (JP) FIPS/TAA 802.11n/ac Dual 2x2:2/4x4:4 Radio 6xRPSMA Connectors Indoor Hardened AP	JZ156A
	Aruba AP-318 (RW) FIPS/TAA 802.11n/ac Dual 2x2:2/4x4:4 Radio 6xRPSMA Connectors Indoor Hardened AP	JZ157A
	Aruba AP-318 (US) FIPS/TAA 802.11n/ac Dual 2x2:2/4x4:4 Radio 6xRPSMA Connectors Indoor Hardened AP	JZ158A
Notes:	OCA Only Model Selection Form - HPE Offering > Aruba > Access Points - Outdoor / Rugged: 318 Series Access Points	

Mounting Accessories

	AP Mount Kits	
	For 318 Series Std (Min 0 // max 1) User Selection (min 0 // max 1)	
	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
1	Aruba AP-OUT-MNT-V1A Outdoor AP Long Arm Pole/Wall Mounting Bracket	R9H97A
1, 2	Aruba AP-270-MNT-V2 Outdoor AP Short Arm Pole/Wall Mounting Bracket	JW053A
1	Aruba AP-270-MNT-H1 Outdoor AP Hanging or One-Way Tilt Pole/Wall Mounting Bracket	JW054A
1	Aruba AP-270-MNT-H2 Outdoor AP Flush Wall Mounting Bracket	JW055A
1	Aruba AP-270-MNT-H3 Outdoor AP Hanging or Dual-Tilt Pole/Wall Mounting Bracket	R6W11A

Configuration Rules

Rule #	Description	SKU
1	Add Qty 1 of JW056A if this AP Mount is selected	
2	This Mount Kit is not valid if the unit is operated with an SFP module	
Notes:	AP-270-MNT-XX or AP-OUT-MNT-XX requires that AP-270-MNT-ADP (JW056A) be ordered.	

Transceivers

	SFP	
	SFP-LX Extended Temperature 1000BASE-LX SFP 1310nm LC Connector Pluggable GbE XCVR	Q8N52A
	SFP-SX Extended Temperature 1000BASE-SX SFP 850nm LC Connector Pluggable GbE XCVR	Q8N53A
Notes:	– Add Qty 1 of Q8N54A if this XCVR is selected – If this XCVR is selected, then the following Mount Kit is not compatible: JW053A - AP-270-MNT-V2 270 Series Mt Kit – Q8N54A is a mandatory item if an SFP will be used.	

Configuration Information

Power Options

Remarks	Description	SKU
	PoE Power Options	
	For 318 Series Std (Min 0 // max 1) User Selection (min 0 // max 1)	
	PD-9501-5GCO-AC 60W 802.3bt Smart Rate Outdoor Surge Protection Midspan Injector	R7T40A
	PD-9501-5GCO-DC 60W 802.3bt Smart Rate Outdoor Surge Protection Midspan Injector	R7T41A
*	AP-POE-ATSR 1-Port Smart Rate 802.3at 30W midspan injector	R6P67A
Notes:	– *If this Power Supply is selected, bring in (Min 1 // Max 1) Localized power cord based on the Aruba Wireless Power Cord Table. – AP-318 requires 802.3at power – PD-9001GR-AC is an indoor grade device – If powered from a switch an injector is not needed – Power Cord for JW630A, R7T40A, R7T41A should be provided by installer – R7T40A and R7T41A do not include a power cord, power cord must be constructed by installer using the included power connector parts and assembled per the user guide by a certified installer	
	Power Injector Mounts	
	For 318 Std (Min 0 // max 1) User Selection (min 0 // max 1)	
	Aruba PD-MOUNT-OD Outdoor PoE Midspan Injectors Pole/Mast Mount Kit	JW620A
Notes:	This is optional but recommended for outdoor injectors	

Antennas

	5 GHz Antennas	
	For 318 Std (Min 0 // max 1) User Selection (min 0 // max 1)	
*	AP-ANT-1W 2.4-2.5GHz (4dBi)/4.9-5.875GHz (6dBi) Hi Gain Dual-band Omni-Dir Indoor Antenna	JW009A
*	AP-ANT-13B 2.4-2.5GHz (2.3dBi)/4.9-5.9GHz (4.0dBi) Downtilt Smallest Omni-Dir Single Ant	JW001A
*	AP-ANT-19 2.4/5G Dual Band Omni-Dir 3dBi/6dBi Indr/Otdr RPSMA Cnctr Ant w/36in Intgrtd Cable	JW004A
*	AP-ANT-20W 2.4-2.5GHz (2dBi)/4.9-5.875GHz (2dBi) Compact Omni-Dir DMt Indr White Antenna	JW011A
**	AP-ANT-22 Dual Band 2/4dBi Omni RPSMA Low Profile 2-pk Omni Antenna	Q8N49A
	AP-ANT-40 Dual Band Downtilt Omni 4dBi 4 Elmt MIMO Ceiling Mount 4xRPSMA Pigtail Antenna	JW017A
	AP-ANT-45 Dual Band 90x90deg 5dBi 4 Element MIMO 4xRPSMA Pigtail Antenna	JW018A
	AP-ANT-48 Dual Band 60x60deg 8.5dBi 4 Element MIMO 4xRPSMA Pigtail Antenna	JW019A
	ANT-3x3-5712 4.9-5.9GHz 12.0dBi 75x25deg +/- 45deg and V Pol 3 MIMO High Gain Dir Antenna	JW033A
	ANT-4x4-5314 5.15-5.9GHz 14dBi 30x30deg Dual Pol MIMO Hi Gain Dir N-Type Outdoor Antenna	JX988A
Notes:	– *Must select Qty 0 or Qty 4 – **Must select Qty 0 or Qty 2 – AP-ANT-1W, AP-ANT-20W and AP-ANT-22 are usually direct connect to the chassis – AP-ANT-40 ships with its mounting bracket – AP-ANT-45,-48 ship only with hardware for flush mount to a flat surface – AP-318 has 4x RPSMA female for 5 GHz	
	2.4 GHz Antennas	
*	AP-ANT-1W 2.4-2.5GHz (4dBi)/4.9-5.875GHz (6dBi) Hi Gain Dual-band Omni-Dir Indoor Antenna	JW009A
*	AP-ANT-13B 2.4-2.5GHz (2.3dBi)/4.9-5.9GHz (4.0dBi) Downtilt Smallest Omni-Dir Single Ant	JW001A
	AP-ANT-16 2.4-2.5Ghz (3.9dBi)/4.9-5.9GHz (4.7dBi) 3 Elmt MIMO Ant w/Downtilt Omni-Dir Antenna	JW003A
*	AP-ANT-19 2.4/5G Dual Band Omni-Dir 3dBi/6dBi Indr/Otdr RPSMA Cnctr Ant w/36in Intgrtd Cable	JW004A
*	AP-ANT-20W 2.4-2.5GHz (2dBi)/4.9-5.875GHz (2dBi) Compact Omni-Dir DMt Indr White Antenna	JW011A
	AP-ANT-22 Dual Band 2/4dBi Omni RPSMA Low Profile 2-pk Omni Antenna	Q8N49A
	AP-ANT-25A Dual Band 90x90deg 5dBi +/- 45 Pol 2 Element MIMO 2xRPSMA Pigtail Antenna	JW012A

Configuration Information

	Aruba AP-ANT-28a Dual Band 7dBi +/- 45 2 Element MIMO 2xRPSMA Pigtail Antenna	S0A66A
	ANT-2x2-2314 2.4 GHz 14dBi 30x30deg Dual Pol MIMO High Gain Dir N-Type Outdoor Antenna	JW024A

Notes:
- Must select Qty 0 or Qty 2
- AP-ANT-1W, AP-ANT-20W and AP-ANT-22 are usually direct connect to the chassis
- AP-ANT-25A,-28 ship only with hardware for flush mount to a flat surface
- AP-318 has 4x RPSMA female for 2.4 GHz

Antenna Mount Kits

Remarks	Description	SKU
	Aruba AP-ANT-MNT-3 AZ/EL Adjustable Antenna Pole/Wall Mount Kit	JW020A
Notes:	Only compatible with JW017A	
	Aruba AP-ANT-MNT-4 AZ/EL Adjustable Antenna Pole/Wall Mount Kit	JW021A
Notes:	Only compatible with JW018A	
	Aruba AP-ANT-MNT-5 AZ/EL Adjustable Antenna Pole/Wall Mount Kit	JW022A
Notes:	Only compatible with JW019A	

Notes:
- AP-ANT-MNT-3 compatible with AP-ANT-25A and AP-ANT-28
- AP-ANT-MNT-4 compatible with AP-ANT-48
- AP-ANT-MNT-5 compatible with AP-ANT-45

Cables

RF Jumper Cables

For 318 Series Std (Min 0 // max 1) User Selection (min 0 // max 1)

	AFC2DL60-00 Indoor AP RPSMAm to Nf 60cm Flexible Indoor Rated RF Cable	JW066A
	AFCSJMTM-00 Indoor AP RPSMAm to Nm 60cm Flexible Indoor Rated RF Cable	JW067A

Notes:
- Only compatible with the following Antenna: JW024A, JX988A, JW033A.
- Not usually required
- Radio 0 (5 GHz) has 4 connectors
- Radio 1 (2.4 GHz) has 2 connectors
- No cables required for direct connect omnis or antennas with pigtails
- AFC2DL60-00 used to adapt from RPSMA to Nf for connection to longer Nm to Nm jumpers
- AFCSJMTM-00 used to adapt from RPSMA to Nm for connection to antennas with Nf connectors

Accesories

Spare Items

For 318 Series Std (Min 0 // max 99) User Selection (min 0 // max 99)

	Outdoor AP Covers and Glands 1-pk M25/5-pk M20 Cover/2-pk M16 Cover/5-pk M20 Gland/2-pk Ground Kit	Q8N47A
	Outdoor AP Metric to Standard M20 to 1/2 inch NPT 5-pk Thread Adapter	Q8N48A
	AP-270-MNT-ADP AP-228 to AP-270-MNT-XX Outdoor Mount Adapter	JW056A
*	Outdoor SFP Weathertight Strain Relief Kit	Q8N54A

Notes:
- *This Accessory Kit cannot be used in conjunction with the following AP Mount Kit: JW053A - AP-270-MNT-V2 270 Series Mt Kit
- Spares of items that are shipped with the AP-318 chassis.

Configuration Information

Software

	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	HPE Aruba Networking Central AP Advanced 7 year Subscription E-STU	Q9Y66AAE
2, 8	Aruba Central AP Advanced 10yr Subscription E-STU	Q9Y67AAE
	On-Prem Services / Access Point Foundation Subscriptions	
3, 8	HPE Aruba Networking Central on Prem AP Foundation 1 year Subscription E-STU	R6U63AAE
3, 8	HPE Aruba Networking Central on Prem 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
	On-Prem Services / Access Point Foundation Government Subscriptions	
3	Aruba COP AP Foundation 1 year Government Subscription E-STU	S1P56AAE
3	Aruba COP AP Foundation 3 year Government Subscription E-STU	S1P57AAE
3	Aruba COP AP Foundation 5 year Government Subscription E-STU	S1P58AAE
3	Aruba COP AP Foundation 7 year Government Subscription E-STU	S1P59AAE
3	Aruba COP AP Foundation 10 year Government Subscription E-STU	S1P60AAE
	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

	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	HPE Aruba Networking Central AP Foundation 5 year Subscription SaaS	Q9Y60AAS
7	HPE Aruba Networking 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	22	-95
2 Mbps	22	-93
5.5 Mbps	22	-90
11 Mbps	22	-88
802.11g 2.4 GHz and 802.11a 5 GHz 2.4 GHz and 802.11a 5 GHz		
6 Mbps	22	-93
54 Mbps	19	-75
802.11n HT20 2.4 GHz and 5 GHz		
MCS0/8	22	-93
MCS7/15	18	-71
802.11n HT40 2.4 GHz and 5 GHz		
MCS0/8	22	-90
MCS7/15	18	-68
802.11ac VHT20 5 GHz		
MCS0	22	-93
MCS9	16	-68
802.11ac VHT40 5 GHz		
MCS0	22	-90
MCS9	15	-63
802.11ac VHT80 5 GHz		
MCS0	22	-87
MCS9	15	-61
802.11ac VHT160 5 GHz		
MCS0	22	-86
MCS9	15	-57

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

Mechanical

Dimensions/weight (unit, excluding mount accessories):

- 21.6 cm (L) x 15.2 cm (W) x 7.5 cm (H) 8.5” (L) x 6” (W) x 2.5” (H)
- 1.225 kg/2.7 lbs

Power

- Worst-case power consumption from the AP: 23W
- Power sources sold separately
- Power over Ethernet (PoE+): 802.3at-compliant

Minimum Operating System Software

- ArubaOS & Aruba InstantOS 8.3.0.0

Technical Specifications

Aruba 318 Series Specifications

- 5 GHz 802.11ac 4x4 MU-MIMO (1,733 Mbps max rate)
  - Four RP-SMA connectors for external antenna operation
- 2.4 GHz 802.11n 2x2 MIMO (300 Mbps max rate) radios
  - Two RP-SMA connectors for external antenna operation at 2.4 GHz

WI-FI Radio Specifications

- AP type: Indoor hardened, 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 Multi User (MU) MIMO for up to 1,733 Mbps wireless data rate to up to three MU-MIMO capable client devices simultaneously
- 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
- Support for up to 256 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) maximizes 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: +22 dBm per chain, +25dBm aggregate (2x2)
  - 5 GHz band: +22 dBm per chain, +28dBm 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 (2.4GHz): 6.5 to 300 (MCS0 to MCS15)
  - 802.11n (5GHz): 6.5 to 600 (MCS0 to MCS31)
  - 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

WI-FI antenna ports

- 5 GHz
  - Four RP-SMA connectors for external antenna operation
- 2.4 GHz
  - Two RP-SMA connectors for external antenna operation

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)
- One 1000BASE-X SFP Port
- Bluetooth Low Energy (BLE) radio
  - Up to 4 dBm transmit power (class 2) and -91 dBm receive sensitivity
- Visual indicator (multi-color LED): For system and radio status
- Reset button: Factory reset (during device power up)
- Micro USB console interface
- Kensington security slot

Mounting

- Optional mounting kits:
  - AP-220-MNT-W1 are directly compatible
  - 270 Series outdoor AP mounts (AP-270-MNT-V1, AP-270-MNT-V2, AP-270-MNT-H1, AP-270-MNT-H2) are compatible when the AP-270-MNT-ADP adapter is utilized

Environmental

- Operating:
  - Temperature: -40° C to +60° C (-40° F to +140° F)
  - Humidity: 5% to 95% non-condensing
- Storage and transportation:
  - Temperature: -40° C to +70° C (-40° F to +158° F)
- Operating Altitude: 3,000 m
- Water and Dust
  - IP55

Regulatory

- FCC/ISED
- CE Marked
- RED Directive 2014/53/EU
- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- UL/IEC/EN 60950
- EN 60601-1-1, EN60601-1-2

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

Regulatory Model Numbers

- APIN0318

Technical Specifications

Certifications

- CB Scheme Safety, cTUVus
- UL2043 plenum rating
- Wi-Fi Alliance certified 802.11a/b/g/n
- Wi-Fi CERTIFIED™ ac (with wave 2 features)

Warranty

- **Limited lifetime warranty**

Summary of Changes

Date	Version History	Action	Description of Change
16-Oct-2023	Version 12	Changed	Configuration Information section was updated
07-Aug-2023	Version 11	Changed	Configuration Information section was updated.
21-Nov-2022	Version 10	Changed	Configuration Information section was updated.
01-Aug-2022	Version 9	Changed	Configuration Information section was updated.
06-Dec-2021	Version 8	Changed	SKUs were added in Configuration Information section.
15-Mar-2021	Version 7	Changed	SKUs were added in Configuration Information section.
02-Nov-2020	Version 6	Changed	Configuration Information section was updated. New SKUs were added.
08-Sep-2020	Version 5	Changed	Configuration section was updated. New SKUs were added.
09-Dec-2019	Version 4	Changed	Overview, Standard Features and Technical Specification sections were updated.
04-Mar-2019	Version 3	Changed	Configuration section was updated.
18-Dec-2017	Version 2	Changed	Minor changes made on Features and Benefits
06-Nov-2017	Version 1	New	New QuickSpecs.

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