ARUBA 310 SERIES ACCESS POINTS

High-performance 802.11ac Wave 2 (Wi-Fi 5)

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 Access Points 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 Wave 2 supports 160 MHz channel bandwidth (VHT160), multi-user MIMO (MU-MIMO) and 4 spatial streams (4SS). It provides simultaneous 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.

KEY FEATURES

- High performance and high density 802.11ac Wave 2 supports multi-user MIMO (MU-MIMO) and 4 spatial access point streams (4SS)
- Boost performance with Aruba ClientMatch, grouping 802.11ac Wave 2 clients to the Wave 2 APs.
- 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)
- Mid-range 310 Series ideal for environments, such as schools, retail branches, hotels and enterprise offices, where the organization is cost sensitive.
- Includes integrated Bluetooth Low Energy (BLE) radio, for advanced location and indoor wayfinding
- Unified wired and wireless policy with Dynamic Segmentation

The 310 Series also has an integrated Bluetooth Aruba Beacon that simplifies the remote management of a network of large-scale battery-powered Aruba beacons while also providing advanced location and indoor wayfinding, and proximity-based push notification capabilities. It enables businesses to leverage mobility context to develop applications that will deliver an enhanced user experience and increase the value of the wireless network for organizations.
**UNIQUE BENEFITS**

- Dual Radio 802.11ac access point with Multi-User MIMO
  - Supports up to 1,733 Mbps 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 Access Points 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.
- 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.
- 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 Access Points will operate in unrestricted mode.

**CHOOSE YOUR OPERATING MODE**

Aruba 310 Series Access Points 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 Access Points 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.

**AP-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 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 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) 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)
- 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 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

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 peak 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

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 6.4W (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 (black) 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.

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 93% non-condensing
• Storage and transportation:
  - Temperature: -40° C to +70° C (-40° F to +158° F)

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 and EN 60601-1-2
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
• WPA, WPA2 and WPA3 – Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)
• Passpoint® (Release 2) with ArubaOS and Instant 8.3+

WARRANTY
• Aruba limited lifetime warranty

MINIMUM OPERATING SYSTEM SOFTWARE VERSIONS
• ArubaOS 6.5.0.0, 8.0.1.0
• Aruba InstantOS 4.3.0.0
## RF PERFORMANCE TABLE

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

Maximum capability of the hardware provided (excluding antenna gain). Maximum transmit power is limited by local regulatory settings.
AP-315/IAP-315 ANTENNA PATTERN PLOTS

Horizontal planes (top view, AP facing forward)
Showing azimuth (0 degrees) and 30 degrees downtilt pattern

![Horizontal plane plots](image1.png)

Elevation planes (side view, AP facing down)
Showing side view with AP rotated 0 and 90 degrees

![Elevation plane plots](image2.png)
## ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AP-310 Series Access Points</strong></td>
<td></td>
</tr>
<tr>
<td>JW795A</td>
<td>Aruba AP-314 802.11n/ac 2x2:2/4x4:4 MU-MIMO Dual Radio Antenna Connectors AP</td>
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<tr>
<td>JW797A</td>
<td>Aruba AP-315 802.11n/ac 2x2:2/4x4:4 MU-MIMO Dual Radio Integrated Antenna AP</td>
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<tr>
<td>JW796A</td>
<td>Aruba AP-314 TAA-compliant 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Dual Radio Antenna Connectors AP</td>
</tr>
<tr>
<td>JW798A</td>
<td>Aruba AP-315 TAA-compliant 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Dual Radio Integrated Antenna AP</td>
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<tr>
<td>JW805A</td>
<td>Aruba Instant IAP-314 (RW) 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Antenna Connectors AP</td>
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<tr>
<td>JW807A</td>
<td>Aruba Instant IAP-314 (US) 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Antenna Connectors AP</td>
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<tr>
<td>JW804A</td>
<td>Aruba Instant IAP-314 (JP) 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Antenna Connectors AP</td>
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<tr>
<td>JW811A</td>
<td>Aruba Instant IAP-315 (RW) 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Integrated Antenna AP</td>
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<td>JW813A</td>
<td>Aruba Instant IAP-315 (US) 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Integrated Antenna AP</td>
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<tr>
<td>JW810A</td>
<td>Aruba Instant IAP-315 (JP) 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Integrated Antenna AP</td>
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<tr>
<td>JW806A</td>
<td>Aruba Instant IAP-315 (RW) TAA 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Ant Connectors AP</td>
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<tr>
<td>JW808A</td>
<td>Aruba Instant IAP-315 (US) TAA 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Ant Connectors AP</td>
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<td>JW812A</td>
<td>Aruba Instant IAP-315 (RW) TAA 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Integrated Ant AP</td>
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<tr>
<td>JW814A</td>
<td>Aruba Instant IAP-315 (US) TAA 802.11n/ac Dual 2x2:2/4x4:4 MU-MIMO Radio Integrated Ant AP</td>
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<tr>
<td><strong>Mounting Spares</strong></td>
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<tr>
<td>JW044A</td>
<td>AP-220-MNT-C1 2x Ceiling Grid Rail Adapter for Basic Flat Rails Mount Kit</td>
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<tr>
<td><strong>Mounting Accessories</strong></td>
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<tr>
<td>JW045A</td>
<td>AP-220-MNT-C2 2x Ceiling Grid Rail Adapter for Interlude and Silhouette Mt Kit</td>
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<td>JX961A</td>
<td>AP-MNT-CM1 Industrial Grade Indoor Access Point Metal Suspended Ceiling Rail Mount Kit</td>
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<tr>
<td>JW046A</td>
<td>AP-220-MNT-W1 Flat Surface Wall/Ceiling Black AP Basic Flat Surface Mount Kit</td>
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<td>AP-220-MNT-W1W Flat Surface Wall/Ceiling White AP Basic Flat Surface Mount Kit</td>
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<td>Q9U25A</td>
<td>AP-MNT-W4 White Low Profile Basic AP Flat Surface Mount Kit</td>
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<td>R0G64A</td>
<td>AP-310-MNT-W3 White Low Profile Box Style Secure AP Flat Surface Mount Kit for 310 Series</td>
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<td><strong>Other Accessories</strong></td>
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<tr>
<td>JW827A</td>
<td>Aruba 315-CVR-20 20-pk for AP-315 with Holes for LED Indicators White Non-glossy Snap-on Covers</td>
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<tr>
<td><strong>Generic Indoor AP Accessories</strong></td>
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<tr>
<td>JX990A</td>
<td>AP-AC-12V30B 12V/30W AC/DC Desktop Style 2.1/5.5/9.5mm Circular 90 Deg Plug DoE Level VI Adapter</td>
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<td>JW627A</td>
<td>PD-3501G-AC 15.4W 802.3af PoE 10/100/1000Base-T Ethernet Midspan Injector</td>
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<td>JW629A</td>
<td>PD-9001GR-AC 30W 802.3at PoE+ 10/100/1000 Ethernet Indoor Rated Midspan Injector</td>
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<tr>
<td><strong>Antennas</strong></td>
<td>See info on Aruba website for antenna part numbers</td>
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<tr>
<td>JW071A</td>
<td>AP-CBL-SER AP Proprietary DB9 Female Serial Adapter Cable</td>
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