Multifunctional 320 series wireless APs provide the best 802.11ac Wi-Fi connectivity and user experience. Featuring Aruba enhanced ClientMatch and Aruba Beacon technologies, the 320 series enables the highest capacity, performance, and efficiency in extremely high-density environments.

With a maximum concurrent data rate of 1,733 Mbps in the 5 GHz band and 600 Mbps in the 2.4 GHz band (aggregated date rate of 2.3 Gbps), 320 Series Access Points deliver best-in-class next-generation Wi-Fi infrastructure for the highest density environments.

The high performance and high density 802.11ac 320 series supports multi-user MIMO (MU-MIMO) and 4 spatial Access Point streams (4SS). It provides simultaneous data transmission to multiple devices, maximizing data throughput and improving network efficiency.

The 320 series includes the patent-pending 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 customers achieve the best WLAN performance in a mixed device environment during the technology transition period.

**IOT PLATFORM CAPABILITIES**

Like all Aruba Wi-Fi 6 APs, the 320 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 4x4 802.11ac access point with multi-user MIMO
- Supports up to 1,733 Mbps in the 5 GHz band (with 4SS/VHT80 clients) and 600 Mbps in the 2.4 GHz band (with 4SS/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.
- Simplifies battery-powered Aruba beacon management.

**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 600 Mbps in the 2.4 GHz band (aggregated date rate of 2.3 Gbps)
- Includes integrated Bluetooth Low Energy (BLE) radio, for advanced location and indoor wayfinding
- Participates in Aruba’s Dynamic Segmentation solution
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 320 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.

Spectrum Analysis  
- Capable of part-time or dedicated air monitoring, the spectrum analyzer remotely scans the 2.4 GHz and 5 GHz radio bands to identify sources of RF interference.

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.
- SecureJack-capable for secure tunneling of wired Ethernet traffic.

CHOOSE YOUR OPERATING MODE

Aruba 320 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 320 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 320 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-320 SERIES SPECIFICATIONS

- AP-325 and IAP-325  
  - 5 GHz (1,733 Mbps max rate) and 2.4 GHz (600 Mbps max rate) radios, each with 4x4 MIMO support and a total of eight integrated omni-directional downtilt antennas.
- AP-324 and IAP-324  
  - 5 GHz (1,733 Mbps max rate) and 2.4 GHz (600 Mbps max rate) radios, each with 4x4 MIMO support and a total of four combined, diplexed (dual-band) external RP-SMA antenna connectors.

WI-FI RADIO SPECIFICATIONS

- AP type: Indoor, dual radio, 5 GHz 802.11ac and 2.4 GHz 802.11n 4x4 MIMO.
- Software-configurable dual radio supports 5 GHz (Radio 0) and 2.4 GHz (Radio 1).
- Four spatial stream SU-MIMO for up to 1,733 Mbps wireless data rate to a single client device.
- Three spatial stream MU-MIMO for up to 1,300 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 (aggregate, conducted total) transmit power (limited by local regulatory requirements):
    - 2.4 GHz band: +24 dBm (18 dBm per chain)
    - 5 GHz band: +24 dBm (18 dBm per chain)
  - 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 and 80-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 beamforming (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 600 (MC50 to MC531)
  - 802.11ac: 6.5 to 1,733 (MC50 to MC59, NSS = 1 to 4)
  - 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-324/IAP-324: Four RP-SMA connectors for external dual band antennas. Internal loss between radio interface and external antenna connectors (due to diplexing circuitry): 2.5 dB in 2.4 GHz and 1.5 dB in 5 GHz.
• AP-325/IAP-325: Eight integrated downtilt omni-directional antennas for 4x4 MIMO with peak antenna gain of 4.0dBi in 2.4 GHz and 4.7dBi in 5 GHz. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the AP. The downtilt angle for maximum gain is ~ 30 degrees. Combining the patterns of each of the antennas of the MIMO radios, the peak gain of the effective per-antenna pattern is 2.7dBi in 2.4GHz and 2.9dBi in 5GHz.

**OTHER INTERFACES**
• Two 10/100/1000BASE-T Ethernet network interfaces (RJ-45)
  - Auto-sensing link speed and MDI/MDX
  - Link Aggregation support to achieve platform throughput up to 2 Gbps
  - 802.3az Energy Efficient Ethernet (EEE)
  - PoE-PD: 48 Vdc (nominal) 802.3af or 802.3at PoE
• DC power interface, accepts 2.1/5.5-mm center-positive circular plug with 9.5-mm length
• USB 2.0 host interface (Type A connector)
• Bluetooth Low Energy (BLE) radio
  - Up to 4dBm transmit power (class 2) and -94dBm receive sensitivity
  - Integrated antenna, -5dBi gain (30 degrees downtilt)
  - Can be disabled with configuration
• Visual indicators (tri-color LEDs): For system and radio status
• Reset button: Factory reset (during device power up)
• Serial console interface (RJ-45)
• Kensington security slot

**POWER**
• Maximum (worst-case) power consumption: 20W (802.3at PoE), 13.5W (802.3af PoE) or 18.5W (DC)
  - Excludes power consumed by external USB device (and internal overhead); this could add up to 6W (POE) or 5.5W (DC) for 5W/1A USB device
• Maximum (worst-case) power consumption in idle mode:
  - 8W (PoE) or 7W (DC)
• Direct DC source: 12 Vdc nominal, +/- 5%
• Power over Ethernet (PoE): 48 Vdc (nominal) 802.3af/802.3at compliant source
• Unrestricted functionality with 802.3at PoE

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• Direct DC source: 12 Vdc nominal, +/- 5%
• Power over Ethernet (PoE): 48 Vdc (nominal) 802.3af/802.3at compliant source
• Unrestricted functionality with 802.3at PoE
- Power-save mode with reduced functionality from 802.3af PoE
  > USB port disabled
  > Second Ethernet port disabled
  > 2.4 GHz radio in 1x1:1 mode
- Power sources sold separately
- When both power sources are available, DC power takes priority

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):
  - 203mm (W) x 203mm (D) x 57mm (H)
  - 8.0” (W) x 8.0” (D) x 2.2” (H)
  - 950g/34 oz
- Dimensions/weight (shipping):
  - 315mm(W) x 265mm(D) x 100mm (H)
  - 12.4” (W) x 10.4” (D) x 3.9” (H)
  - 1,350g/48 oz

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: 739,935 hrs (84.5yrs) at +25C operating temperature (AP-325)

REGULATORY MODEL NUMBERS
- AP-324 and IAP-324: APIN0324
- AP-325 and IAP-325: APIN0325

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)
- Bluetooth SIG interoperability certification
- Passpoint® (Release 2) with ArubaOS and Instant 8.3+

WARRANTY
- Aruba limited lifetime warranty

MINIMUM OPERATING SYSTEM
SOFTWARE VERSIONS
- ArubaOS 6.4.4.0
  320 Series Access Points are not supported on 650 Series Mobility Controllers.
- Aruba InstantOS 4.2.2.0
<table>
<thead>
<tr>
<th></th>
<th>Maximum transmit power (dBm) per transmit chain</th>
<th>Receiver sensitivity (dBm) per receive chain</th>
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<tbody>
<tr>
<td><strong>802.11b 2.4 GHz</strong></td>
<td></td>
<td></td>
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<tr>
<td>1 Mbps</td>
<td>18.0</td>
<td>-97.0</td>
</tr>
<tr>
<td>11 Mbps</td>
<td>18.0</td>
<td>-89.0</td>
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<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>-93.0</td>
</tr>
<tr>
<td>54 Mbps</td>
<td>18.0</td>
<td>-75.0</td>
</tr>
<tr>
<td><strong>802.11n HT20 2.4 GHz</strong></td>
<td></td>
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<tr>
<td>MCS0/8/16</td>
<td>18.0</td>
<td>-92.0</td>
</tr>
<tr>
<td>MCS7/15/23</td>
<td>16.0</td>
<td>-72.0</td>
</tr>
<tr>
<td><strong>802.11n HT40 2.4 GHz</strong></td>
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<tr>
<td>MCS0/8/16</td>
<td>18.0</td>
<td>-90.0</td>
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<td>MCS7/15/23</td>
<td>16.0</td>
<td>-70.0</td>
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<tr>
<td><strong>802.11a 5 GHz</strong></td>
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<td></td>
</tr>
<tr>
<td>6 Mbps</td>
<td>18.0</td>
<td>-93.0</td>
</tr>
<tr>
<td>54 Mbps</td>
<td>16.5</td>
<td>-75.0</td>
</tr>
<tr>
<td><strong>802.11n HT20 5 GHz</strong></td>
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<td>MCS0/8/16</td>
<td>18.0</td>
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<td><strong>802.11n HT40 5 GHz</strong></td>
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<td>MCS7/15/23</td>
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<tr>
<td><strong>802.11ac VHT20 5 GHz</strong></td>
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<td>MCS0</td>
<td>18.0</td>
<td>-92.0</td>
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<tr>
<td>MCS9</td>
<td>14.0</td>
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<tr>
<td><strong>802.11ac VHT40 5 GHz</strong></td>
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<td>MCS0</td>
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<td><strong>802.11ac VHT80 5 GHz</strong></td>
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<td>MCS9</td>
<td>14.0</td>
<td>-59.0</td>
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</table>

Maximum capability of the hardware provided (excluding antenna gain). Maximum transmit power is limited by local regulatory settings.
AP-320 ANTENNA PATTERN PLOTS

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

![Horizontal planes plots](image1)

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

![Elevation planes plots](image2)
# ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AP-320 Series Access Points</strong></td>
<td></td>
</tr>
<tr>
<td>JW184A</td>
<td>Aruba AP-324 802.11n/ac 4x4:4 MU-MIMO Dual Radio Antenna Connectors AP</td>
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<tr>
<td>JW185A</td>
<td>Aruba AP-324 TAA-compliant 802.11n/ac Dual 4x4:4 MU-MIMO Dual Radio Antenna Connectors AP</td>
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<td>JW186A</td>
<td>Aruba AP-325 802.11n/ac 4x4:4 MU-MIMO Dual Radio Integrated Antenna AP</td>
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<td>JW187A</td>
<td>Aruba AP-325 TAA-compliant 802.11n/ac Dual 4x4:4 MU-MIMO Dual Radio Integrated Antenna AP</td>
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<td>JW319A</td>
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<td>Aruba Instant IAP-324 (US) 802.11n/ac Dual 4x4:4 MU-MIMO Radio Antenna Connectors AP</td>
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<td>JW318A</td>
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<td><strong>Mounting Accessories</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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<td>JW045A</td>
<td>AP-220-MNT-C2 2x Ceiling Grid Rail Adapter for Interlude and Silhouette Mt Kit</td>
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<tr>
<td>JX961A</td>
<td>AP-MNT-CM1 Industrial Grade Indoor Access Point Metal Suspended Ceiling Rail Mount Kit</td>
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<td>Aruba CM AP-MNT-CM1 Metal Suspended Ceiling Rail Mount Kit</td>
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<td>Aruba CM AP-220-MNT-W1 Flat Surface Wall/Ceiling Black AP Basic Flat Surface Mount Kit</td>
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<td>JW047ACM</td>
<td>Aruba CM AP-220-MNT-W1W Flat Surface Wall/Ceiling White AP Basic Flat Surface Mount Kit</td>
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<td>Aruba CM AP-220-MNT-W3 White Low Profile Box Style Secure Large AP Flat Surface Mount Kit</td>
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<td>JW629ACM</td>
<td>Aruba CM PD-9001GR-AC 802.3at PoE+ 10/100/1000 Ethernet Indoor Rated Midspan Injector</td>
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<td>R3K00ACM</td>
<td>Aruba CM AP-AC2-12B 12V/36W AC/DC desktop style power adapter with type B connector</td>
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<tr>
<td>JW629A</td>
<td>PD-9001GR-AC 30W 802.3at PoE+ 10/100/1000 Ethernet Indoor Rated Midspan Injector</td>
</tr>
</tbody>
</table>

Antennas: See info on the [Aruba website](http://www.aruba.com) for antenna part numbers.

R3K00A 12V/36W AC/DC power adapter type B

Note: All hardware SKUs can be managed by Aruba Central. Central Managed (CM) SKUs are used for simplified ordering within US and Canada only.

For more ordering information, please refer to the [ordering guide](http://www.aruba.com).