The Aruba 320 Series Wireless Access Points support IEEE 802.11ac standards for high-performance WLAN, and are equipped with two dual-band radios, which can provide access and monitor the network simultaneously. MIMO, Multiple-input, Multiple-output (MIMO) technology allows this access point to deliver high-performance 802.11n in 2.4 GHz and 802.11ac 5 GHz functionality, while also supporting 802.11a/b/g wireless services.

### 320 Series Hardware Overview

#### Access Point Pre-Installation Checklist
- CAT5E or CAT6 UTP cable of required length
- Access point is mounted in the ceiling
- Access point is mounted in the wall
- Access point is connected to the network
- Access point is configured with the correct IP address

### 320 Series Access Points

The Aruba 320 Series Access Points deliver high-performance 802.11n 2.4 GHz and 802.11ac 5 GHz functionality, and support Multiple-input, Multiple-output (MU-MIMO) technology, which allows this access point to broadcast on both radios simultaneously. When both PoE and DC power sources are available, the access point will default to using the DC power source. If the PoE is not available, the access point will automatically switch to using the DC power source.

### Console Port

The serial console port allows the user to connect the access point to a serial terminal or a laptop with direct local management. This port is an EIA-485 connector, with pinouts as defined in Figure 4. Connect it directly to a terminal or terminal server using an Ethernet cable.

### Ethernet Ports

The 320 Series has two 10/100/1000 Base-T (RJ-45) auto-sensing, MDI/MDX wired-network connectivity ports. These ports support IEEE 802.3at and 802.3af Power over Ethernet (PoE) compliant sources, accepting 56V DC (nominal) as a standard defined Powered Device (PD) from a Power Sourcing Equipment (PSE), such as a PoE midspan injector, or network infrastructure that supports PoE.

### Kensington Lock Slot

The 320 Series is equipped with a Kensington lock slot for additional security.

### Reset Button

The reset button can be used to reset the access point to factory default settings. To reset the access point, follow the steps below:
1. Power off the access point.
2. Press and hold the reset button using a small, narrow object, such as a paperclip.
3. Power-on the access point without releasing the reset button.
4. Release the reset button.

The reset button will flash within 15 seconds, indicating that the reset has completed. The access point will now boot with the factory default settings.

### USB Interface

The 320 Series is equipped with aUSB port for connectivity with cellular modems and other USB client devices. When powered by an 802.3at or DC source, the USB port can supply up to 5.9A.

### LED Indicators

The 320 Series access points have two LEDs that indicate the system and radio status of the device.

### Package Contents

- AP-324 or AP-325 access point
- 9/16” and 15/16” Ceiling Rail Adapters
- Installation Guide (this document)
- Quick Start Guide (for Instant access points only)
- Regulatory Compliance and Safety Information
- 9/16” and 15/16” Ceiling Rail Adapters
- (I)AP-324 or (I)AP-325 access point
- Package Contents
- Compatibility with IEEE 802.3at and 802.3af PoE
- a built-in virtual controller.

### Power

The E0 and E1 port support PoE, allowing one port to draw power from an 802.3at port (recommended) or an 802.3af source. When both PoE and DC power sources are available, the access point will default to using the DC power source. If PoE is not available, the access point will automatically switch to using the DC power source.

### Regulatory Compliance and Safety Information

- 9/16” and 15/16” Ceiling Rail Adapters

### Installation Guide

The Installation Guide for the Aruba 320 Series Wireless Access Point provides important information for installing and configuring the access point. It includes detailed instructions for setting up and configuring the access point, as well as troubleshooting tips and troubleshooting guides for common issues that may arise.

### Console Port

The serial console port allows the user to connect the access point to a serial terminal or a laptop with direct local management. This port is an EIA-485 connector, with pinouts as defined in Figure 4. Connect it directly to a terminal or terminal server using an Ethernet cable.

### Ethernet Ports

The 320 Series has two 10/100/1000 Base-T (RJ-45) auto-sensing, MDI/MDX wired-network connectivity ports. These ports support IEEE 802.3at and 802.3af Power over Ethernet (PoE) compliant sources, accepting 56V DC (nominal) as a standard defined Powered Device (PD) from a Power Sourcing Equipment (PSE), such as a PoE midspan injector, or network infrastructure that supports PoE.

### Kensington Lock Slot

The 320 Series is equipped with a Kensington lock slot for additional security.

### Reset Button

The reset button can be used to reset the access point to factory default settings. To reset the access point, follow the steps below:
1. Power off the access point.
2. Press and hold the reset button using a small, narrow object, such as a paperclip.
3. Power-on the access point without releasing the reset button.
4. Release the reset button.

The reset button will flash within 15 seconds, indicating that the reset has completed. The access point will now boot with the factory default settings.

### USB Interface

The 320 Series is equipped with aUSB port for connectivity with cellular modems and other USB client devices. When powered by an 802.3at or DC source, the USB port can supply up to 5.9A.

### LED Indicators

The 320 Series access points have two LEDs that indicate the system and radio status of the device.

<table>
<thead>
<tr>
<th>LED</th>
<th>Color/State</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>AP powered off</td>
<td></td>
</tr>
<tr>
<td>Green/Amber-Alternating</td>
<td>Device booting, not ready</td>
<td></td>
</tr>
<tr>
<td>Amber-Solid</td>
<td>Device ready</td>
<td></td>
</tr>
<tr>
<td>Green or Amber-Flashing</td>
<td>Restricted mode: Uplink negated in sub optimal speed; or Radios in non-high throughput (HT) mode</td>
<td></td>
</tr>
<tr>
<td>Red</td>
<td>System error condition</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>System Status (Left)</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>AP powered off</td>
</tr>
<tr>
<td>Green/Amber-Alternating</td>
<td>Device booting, not ready</td>
</tr>
<tr>
<td>Amber-Solid</td>
<td>Device ready, power-save mode (802.3at PoE)</td>
</tr>
<tr>
<td>Green or Amber-Flashing</td>
<td>Restricted mode: Uplink negated in sub optimal speed; or Radios in non-high throughput (HT) mode</td>
</tr>
<tr>
<td>Red</td>
<td>System error condition</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Radio Status (Right)</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>AP powered off, or both radios disabled</td>
</tr>
<tr>
<td>Green-Solid</td>
<td>Both radios enabled in access mode</td>
</tr>
<tr>
<td>Amber-Solid</td>
<td>Both radios enabled in monitor mode</td>
</tr>
<tr>
<td>Green or Amber-Alternating</td>
<td>One radio enabled in access mode, one enabled in monitor mode</td>
</tr>
</tbody>
</table>

### Console Port

The serial console port allows the user to connect the access point to a serial terminal or a laptop with direct local management. This port is an EIA-485 connector, with pinouts as defined in Figure 4. Connect it directly to a terminal or terminal server using an Ethernet cable.

### Ethernet Ports

The 320 Series has two 10/100/1000 Base-T (RJ-45) auto-sensing, MDI/MDX wired-network connectivity ports. These ports support IEEE 802.3at and 802.3af Power over Ethernet (PoE) compliant sources, accepting 56V DC (nominal) as a standard defined Powered Device (PD) from a Power Sourcing Equipment (PSE), such as a PoE midspan injector, or network infrastructure that supports PoE.

### Kensington Lock Slot

The 320 Series is equipped with a Kensington lock slot for additional security.

### Reset Button

The reset button can be used to reset the access point to factory default settings. To reset the access point, follow the steps below:
1. Power off the access point.
2. Press and hold the reset button using a small, narrow object, such as a paperclip.
3. Power-on the access point without releasing the reset button.
4. Release the reset button.

The reset button will flash within 15 seconds, indicating that the reset has completed. The access point will now boot with the factory default settings.

### USB Interface

The 320 Series is equipped with aUSB port for connectivity with cellular modems and other USB client devices. When powered by an 802.3at or DC source, the USB port can supply up to 5.9A.

### LED Indicators

The 320 Series access points have two LEDs that indicate the system and radio status of the device.
2. Place the adapter against the back of the access point with the adapter at an
angle of approximately 30 degrees to the tabs (see Figure 6).

3. Twist the adapter clockwise until it snaps into place in the tabs (see Figure 6).

4. If necessary, connect the console cable to the console port on the back of the access point.

5. Hold the access point next to the ceiling tile rail with the ceiling tile rail mounting slots at approximately a 30-degree angle to the ceiling tile rail (see Figure 7). Make sure that any cable slack is above the ceiling tile.

6. Pushing toward the ceiling tile, rotate the access point clockwise until the device clicks into place on the ceiling tile rail.

7. On the (AP) 324, install the external antennas according to the manufacturer’s instructions, and connect the antennas to the antenna interfaces on the access point.

**Connecting Required Cables**

Install cables in accordance with all applicable local and national regulations and practices.

**Verifying Post-Installation Connectivity**

The integrated LEDs on the access point can be used to verify that the device is receiving power and initializing successfully (see Table 1). Refer to the ArubaOS Quick Start Guide for further details on verifying post-installation network connectivity.

**Configuring the 320 Series**

The instructions for this section are applicable to the AP-324 and AP-325 only.

**Access Point Provisioning/Reprovisioning**

Provisioning parameters are unique to each access point. These local access point parameters are initially configured on the controller which are then pushed out to the access points and stored on the devices. Aruba recommends that provisioning settings be configured via the ArubaOS Web UI only. Refer to the ArubaOS User Guide for complete details.

**Access Point Configuration**

Configuration parameters are network or controller specific and are configured and stored on the controller. Network configuration settings are pushed out to the access points, but remain stored on the controller.

Configuration settings can be configured via the ArubaOS Web UI or ArubaOS CLI. Refer to their respective guides for further details.

**Identifying Known RF Absorbers/Reflectors/Interference Sources**

Identifying known RF absorbers, reflectors, and interference sources will impact RF propagation and should be accounted for during the planning phase and adjusted for in RF plan.

**Identifying Specific Installation Locations**

You can mount the 320 Series access point on a wall or on the ceiling. Use the access point placement map generated by Aruba's RF Plan software application to determine the proper installation location(s). Each location should be as close as possible to the center of the intended coverage area and should be free from obstructions or obvious sources of interference. These RF absorbers/reflectors/interference sources will impact RF propagation and should be accounted for during the planning phase and adjusted for in RF plan.