# Installation Guide

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1 Introduction

The AP6562 Series Access Point links wireless 802.11abgn devices, enabling the growth of your wireless network with a cost effective alternative to standard Access Points. The Access Point provides multiple deployment options.

The AP6562 Series Access Point receives all power and transfers data through the same CAT-5 or better Ethernet cable. An 802.3at Ethernet switch or power supply (specifically rated for the AP6562 Series) is required. AP-PSBIAS-7161-US or AP-PSBIAS-7161-WW is the recommended outdoor rated power supply.

An AP6562 Series Access Point uses WiNG 5 software as its onboard operating system. The Access Point’s unique WiNG 5 software enables the Access Point to function as either a Virtual Controller AP capable of adopting and managing up to 24 additional AP6562 Series Access Points or a Standalone Access Point managed by its connected controller.

Refer to the WiNG Access Point System Reference Guide to familiarize yourself with Access Point technology and the feature set supported by the WiNG operating system. The guide is available at www.zebra.com/support.

This device is approved under MODEL: AP-6562.

This document is written for the qualified network device installer.

1.1 Document Conventions

The following graphical alerts are used in this document to indicate notable situations:

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![NOTE]</td>
<td>Tips, hints, or special requirements that you should take note of.</td>
</tr>
<tr>
<td>![CAUTION]</td>
<td>Care is required. Disregarding a caution can result in data loss or equipment malfunction.</td>
</tr>
<tr>
<td>![WARNING!]</td>
<td>Indicates a condition or procedure that could result in personal injury or equipment damage.</td>
</tr>
</tbody>
</table>
1.2 Warnings
- Read all installation instructions and site survey reports, and verify correct equipment installation before connecting the Access Point.
- Remove jewelry and watches before installing this equipment.
- Verify the unit is grounded before connecting it to the power source.
- Verify any device connected to this unit is properly wired and grounded.
- Verify there is adequate ventilation around the device, and that ambient temperatures meet equipment operation specifications.

1.3 Site Preparation
- Consult your site survey and network analysis reports.
- Assign installation responsibility to the appropriate personnel.
- Identify and document where all installed components are located.
- Identify and prepare Ethernet and console port connections.
- Verify cable lengths are within the maximum allowable distances for optimal signal transmission.

1.4 Package Contents
An AP6562 Series Access Point is available in internal antenna and external antenna models. Contents differ depending on the model ordered.

1.4.1 Internal Antenna Access Point Package Contents

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP-6562-66030-US</td>
<td>AP6562: Outdoor Dual Radio 802.11N US</td>
</tr>
<tr>
<td>AP-6562-66030-WR</td>
<td>AP6562 Outdoor Dual Radio 802.11N INTL</td>
</tr>
<tr>
<td>AP-6562-66030-EU</td>
<td>AP6562 Outdoor Dual Radio 802.11N EU</td>
</tr>
<tr>
<td>AP-6562E-66030-US</td>
<td>AP6562E: Outdoor Dual Radio 802.11N US</td>
</tr>
<tr>
<td>AP-6562E-66030-WR</td>
<td>AP6562E Outdoor Dual Radio 802.11N INTL</td>
</tr>
<tr>
<td>AP-6562E-66030-EU</td>
<td>AP6562E Outdoor Dual Radio 802.11N EU</td>
</tr>
</tbody>
</table>

Internal antenna Access Points include the following:
- Access Point with internal antennas
- Weatherproof RJ45 plug kit
- Installation Guide (This Guide)
1.4.2 External Antenna Access Point Package Contents

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP-6562-66040-US</td>
<td>AP6562 Outdoor Dual Radio 802.11N US</td>
</tr>
<tr>
<td>AP-6562-66040-WR</td>
<td>AP6562 Outdoor Dual Radio 802.11N INTL</td>
</tr>
<tr>
<td>AP-6562-66040-EU</td>
<td>AP6562 Outdoor Dual Radio 802.11N EU</td>
</tr>
<tr>
<td>AP-6562E-66040-US</td>
<td>AP6562E Outdoor Dual Radio 802.11N US</td>
</tr>
<tr>
<td>AP-6562E-66040-WR</td>
<td>AP6562E Outdoor Dual Radio 802.11N INTL</td>
</tr>
<tr>
<td>AP-6562E-66040-EU</td>
<td>AP6562E Outdoor Dual Radio 802.11N EU</td>
</tr>
</tbody>
</table>

External antenna Access Points include the following:
- Access Point with external antenna connectors
- Weatherproof RJ45 plug kit
- Installation Guide *(This Guide)*

1.4.3 Features

- GE1/PoE LAN port
- Console port
- LED indicators (see *LED Indicators on page 20*)

The illustration below is of an internal antenna model.

NOTE When operating in a Gigabit Ethernet environment, CAT-5e or CAT-6 cable is recommended for Gigabit operation.

The Access Point comes with dual radios supporting 802.11abgn. The Access Point contains runtime firmware which enables the unit to boot after a power up. The runtime firmware on the Access Point and the firmware downloaded from the connected controller can be updated via the Ethernet interface.
2 Hardware Installation

2.1 Installation Instructions
To prepare for the installation:

1. Match the model number on the purchase order with the model numbers in the packing list and on the case of the Access Point.
2. Verify the contents of the box includes the intended Access Point, and the included hardware matches the package contents for an internal antenna Access Point (see Internal Antenna Access Point Package Contents on page 6) or external antenna Access Point (see External Antenna Access Point Package Contents on page 7).
3. Review site survey and network analysis reports to determine the location and mounting position for the Access Point.
4. Connect a CAT-5 or better Ethernet cable to a compatible 802.3at power source and run the cable to the installation site. Ensure there is sufficient slack on the cable to perform the installation steps.

---

NOTE When operating in a Gigabit Ethernet environment, CAT-5e or CAT-6 cable is recommended for Gigabit operation.

2.2 Access Point Placement
For optimal performance, install the Access Point away from transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators and other industrial equipment. Signal loss can occur when metal, concrete, walls or floors block transmission. Install the Access Point in an open area or add Access Points as needed to improve coverage.

Place the Access Point using the following guidelines:

- Orient the Access Point antennas vertically for best reception (applies to external antenna models only).
- When deploying outdoor mesh networks using a pole mounted installation, install the Access Point at an ideal height of 30 to 35 feet from the ground.

To maximize the Access Point’s radio coverage area, conduct a site survey to define and document radio interference obstacles before installing the Access Point.
2.3  **Hardware Mounting and Installation**

It is recommended to use the mounting bracket kit (KT-147407-01) for most deployments. When a standoff distance is required for a pole mounted or wall mounted installation, use the extension arm kit (KT-150173-01).

2.3.1  **Mounting Bracket Kit**

The mounting bracket kit (KT-147407-01) includes the Access Point bracket (left), angle adapter bracket (center), and pole mount bracket (right) sections:

The Access Point bracket and the angle adapter bracket can rotated (plus or minus 15 degrees) and tilted (up to 45 degrees) to achieve the required angle and rotation.

The following ancillary hardware to assemble the mounting bracket sections is included in the kit:

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6 serrated hex flanged screws</td>
<td>8</td>
</tr>
<tr>
<td>1/2 inch hex head nut</td>
<td>2</td>
</tr>
<tr>
<td>1/2 inch x 3/4 inch hex head bolt</td>
<td>2</td>
</tr>
</tbody>
</table>
A torque wrench or ratchet with a 10mm adapter, or an adjustable wrench, can be used to assemble the mounting brackets. A finished assembly of the mounting bracket kit is shown below. Assembly during deployment may differ to achieve the required angle and rotation.

2.3.2 Extension Arm Kit

When mounting an AP6562 Series Access Point on poles more than 3 inches in diameter, use the extension arm kit (KT-150173-01) to provide a minimum standoff distance of twelve inches to avoid interference with the antennas. The extension arm kit is only required for external antenna Access Points.
The extension arm kit can also be used in combination with any of the brackets from the mounting bracket kit. The following ancillary hardware to attach the extension arm to the mounting bracket kit sections is included in the extension arm kit:

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 inch hex head nut</td>
<td>2</td>
</tr>
<tr>
<td>1/2 inch x 3/4 inch hex head bolt</td>
<td>2</td>
</tr>
</tbody>
</table>

**2.3.3 Pole Mounted Installations**

The mounting hardware kit and extension arm can be used in various combinations to properly install an AP6562 Series Access Point on a pole. For poles of up to 3 inches in diameter, attach the pole mount bracket of the mounting hardware kit at the desired position on the pole using band clamps up to 3/4 inch width, or a 1/2 inch x 4 inch wide U-bolt and nuts. For poles greater than 3 inches in diameter, attach the pole mount bracket using band clamps.

**NOTE** The U-bolt and band clamps are not included in the mounting bracket kit.
The extension arm is recommended for installations on poles greater than 3 inches in diameter.

2.3.4 Vertical Pole Mount

Use the following procedures for vertical pole mount installations. The extension arm is recommended when mounting the Access Point to poles greater than 3 inches in diameter.

For poles up to 3 inches in diameter when using a U-bolt

1. Thread the two inner nuts onto the U-bolt. Place the U-bolt at the desired mounting location.
2. Place the pole mount bracket section on the U-bolt. Adjust the inner nuts until the pole mount bracket section is against the pole and the U-bolt can be secured tightly to the pole.
3. Place the angle adapter bracket section on the U-bolt with the open slot connections on the bottom and align it with the pole mount section.
4. Put the two outer nuts on the U-bolt to attach the angle adapter bracket section to the pole mount bracket section.
5. Tighten all nuts to 300 inch pounds (lbf-in).
6. Position the Access Point bracket section so that the bottom of the section with the straight (not bevel cut) side is oriented toward the bottom side of the Access Point. Using a torque wrench or a ratchet and a 10mm socket, or an adjustable wrench, attach (but don’t tighten) the bracket section to the Access Point with the with four M6 hex flange screws.
7. Insert two M6 hex flange screws into the bottom holes on the sides of the Access Point bracket section.
8. Insert the two M6 hex flange screws in the bottom holes on the sides of the Access Point bracket section into the open slot connections on the bottom of the angle adapter bracket section.
9. Rotate the Access Point bracket section upward and align the top holes on the sides with the top holes on the angle adapter bracket section. Insert two M6 hex flange screws into the top holes on the angle adapter bracket section.
10. Use a torque wrench or a ratchet and a 10mm socket, or an adjustable wrench, to finish attaching the Access Point bracket section to the angle adapter bracket section with the M6 hex flange screws in the open slot connections and the top holes on the angle adapter bracket section. Do not tighten the screws until all rotation and tilt adjustments are complete.
11. To adjust the position of the Access Point, rotate the Access Point bracket section (plus or minus 15 degrees) and tilt the angle adapter bracket section (up to 45 degrees).
12. Tighten all hex flange screws to 60 inch pounds (lbf-in).
13. If required, install and attach a Kensington security cable (customer supplied) to the unit’s lock port.
14. Attach an Ethernet cable from the Access Point to a controller with an 802.3at-compatible power source or use the designated outdoor rated power supply (AP-PSBIAS-7161-US or AP-PSBIAS-7161-WW) to supply power to the Access Point (once fully cabled).
15. Verify the unit has power by observing that the LEDs are lit or flashing.

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**CAUTION** If not using a 802.3at capable controller to power the Access Point, ensure only the designated outdoor power supply (AP-PSBIAS-7161-US or AP-PSBIAS-7161-WW) is used to supply power to the Access Point. Using an incorrectly rated power supply could damage the unit and void the product warranty. Do not actually connect to the power source until the cabling portion of the installation is complete.

---

**For mounting with band clamps:**

1. Attach the pole mount bracket section at the desired mounting location using band clamps.

2. With the angle adapter bracket section positioned so that the open connector slots are on the bottom, attach the angle adapter bracket section to the pole mount bracket section using two 1/2 inch bolts and nuts. Tighten the nuts to 30 inch pounds (lbf-in).

3. Position the Access Point bracket section so that the bottom of the section with the straight (not bevel cut) sides is oriented toward the bottom side of the Access Point. Using a torque wrench or a ratchet and a 10mm socket, or an adjustable wrench, attach (but don’t tighten) the Access Point bracket section to the Access Point with the with four M6 hex flange screws.

4. Insert two M6 hex flange screws into the bottom holes on the sides of the Access Point bracket section.

5. Insert the two M6 hex flange screws in the bottom holes on the sides of the Access Point bracket section into the open slot connections on the bottom of the angle adapter bracket section.

6. Rotate the Access Point bracket section upward and align the top holes on the sides with the top holes on the angle adapter bracket section. Insert two M6 hex flange screws into the top holes on the angle adapter bracket section.

7. Use a torque wrench or a ratchet and a 10mm socket, or an adjustable wrench, to finish attaching the Access Point bracket section to the angle adapter bracket section with the M6 hex flange screws in the open slot connections and the top holes on the angle adapter bracket section. Do not tighten the screws until all rotation and tilt adjustments are complete.

8. Tighten all hex flange screws to 60 inch pounds (lbf-in).

9. If required, install and attach a Kensington security cable (customer supplied) to the unit’s lock port.

10. Attach an Ethernet cable from the Access Point to a controller with an 802.3at-compatible power source or use the designated outdoor rated power supply (AP-PSBIAS-7161-US or AP-PSBIAS-7161-WW) to supply power to the Access Point (once fully cabled).
11. Verify the unit has power by observing that the LEDs are lit or flashing.

---

**CAUTION** If not using a 802.3at capable controller to power the Access Point, ensure only the designated outdoor power supply (AP-PSBIAS-7161-US or AP-PSBIAS-7161-WW) is used to supply power to the Access Point. Using an incorrectly rated power supply could damage the unit and void the product warranty. Do not actually connect to the power source until the cabling portion of the installation is complete.

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To use the extension arm with the mounting hardware kit:

1. Attach the pole mount section at the desired mounting location using a U-bolt or band clamps.
2. Complete the steps for assembling and positioning the mounting bracket sections for poles less than or greater than 3 inches (see Vertical Pole Mount on page 12).
3. Using a torque wrench or a ratchet and a 10mm socket, or an adjustable wrench, attach the extension arm to the Access Point bracket section with four M6 hex flange screws. Tighten the hex flange screws to 60 inch pounds (lbf-in).
4. With the Access Point properly positioned, attach the extension arm to the Access Point with four M6 hex flange screws. Tighten the hex flange screws to 60 inch pounds (lbf-in).
5. If required, install and attach a Kensington security cable (customer supplied) to the unit’s lock port.
6. Attach an Ethernet cable from the Access Point to a controller with an 802.3at-compatible power source or use the designated outdoor rated power supply (AP-PSBIAS-7161-US or AP-PSBIAS-7161-WW) to supply power to the Access Point (once fully cabled).
7. Verify the unit has power by observing that the LEDs are lit or flashing.

---

**CAUTION** If not using a 802.3at capable controller to power the Access Point, ensure only the designated outdoor power supply (AP-PSBIAS-7161-US or AP-PSBIAS-7161-WW) is used to supply power to the Access Point. Using an incorrectly rated power supply could damage the unit and void the product warranty. Do not actually connect to the power source until the cabling portion of the installation is complete.
2.3.5 Wall Mounted Installation

For wall mounted installations, use only the Access Point bracket and if required the angle adapter bracket. The Access Point can also be installed using the sheet metal tab on the top of the enclosure.

**NOTE** The U-bolt and band clamps are not included in the mounting bracket kit.

**NOTE** The lag bolts are not included in the mounting bracket kit.

1. With the open slot connections facing down, attach the angle adapter bracket section at the desired mounting location using four #10/32 lag bolts.
2. Using a torque wrench or a ratchet and a 10mm socket, or an adjustable wrench, attach (but don’t tighten) the bracket section to the Access Point with four M6 hex flange screws and insert two M6 hex flange screws into the bottom holes on the sides of the Access Point bracket section.
3. Insert the two M6 hex flange screws in the bottom holes on the sides of the Access Point bracket section into the open slot connections on the bottom of the angle adapter bracket section.
4. Rotate the Access Point bracket section upward and align the top holes on the sides with the top holes on the angle adapter bracket section. Insert two M6 hex flange screws into the top holes on the angle adapter bracket section.
5. Use a torque wrench or a ratchet and a 10mm socket, or an adjustable wrench, to finish attaching the angle adapter bracket section to the Access Point bracket section with the four M6 hex flange screws in the open slot connections and the top holes on the angle adapter bracket section. Do not tighten the screws until all rotation and tilt adjustments are complete.
6. To adjust the position of the Access Point, rotate the Access Point bracket section (plus or minus 15 degrees) and tilt the angle adapter bracket section (up to 45 degrees).
7. Tighten all hex flange screws to 60 inch pounds (lbf-in).
8. If required, install and attach a Kensington security cable (customer supplied) to the unit’s lock port.
9. Attach an Ethernet cable from the Access Point to a controller with an 802.3at-compatible power source or use the designated outdoor rated power supply (AP-PSBIAS-7161-US or AP-PSBIAS-7161-WW) to supply power to the Access Point (once fully cabled).
10. Verify the unit has power by observing that the LEDs are lit or flashing.
To use only the extension arm:

1. Using four #10/32 lag bolts, attach the extension arm at the desired mounting location.
2. Using a torque wrench or a ratchet and a 10mm socket, or an adjustable wrench, attach the mounting extension arm to the Access Point with four M6 hex flange screws. Tighten the hex flange screws to 60 inch pounds (lbf-in).

To use the extension arm with the mounting hardware kit:

1. With the open slot connections facing down, attach the angle adapter bracket section at the desired mounting location using four #10/32 lag bolts.
2. Complete the steps for assembling and positioning the angle adapter bracket and Access Point bracket sections as outlined above (see Vertical Pole Mount on page 12).
3. Attach the extension arm to the Access Point bracket section of the assembled mounting bracket already in position using four M6 hex flange screws. Tighten the hex flange screws to 60 inch pounds (lbf-in).
4. Using a torque wrench or a ratchet and a 10mm socket, or an adjustable wrench, attach the extension arm to the Access Point with four M6 hex flange screws. Tighten the hex flange screws to 60 inch pounds (lbf-in).

**CAUTION** If not using a 802.3at capable controller to power the Access Point, ensure only the designated outdoor power supply (AP-PSBIAS-7161-US or AP-PSBIAS-7161-WW) is used to supply power to the Access Point. Using an incorrectly rated power supply could damage the unit and void the product warranty. Do not actually connect to the power source until the cabling portion of the installation is complete.
2.4 Internal Antenna Access Points

AP6562 Series internal antenna Access Points are configured with four internal antennas inside the housing.
2.5 External Antenna Access Points
AP6562 Series external antenna Access Points are configured with four external N type connectors requiring a professional installer to connect to correctly rated and supported antennas.
The labels for Radio 1-0, Radio 1-1, Radio 2-0 and Radio 2-1 are molded into the Access Point enclosure beside the antenna connectors. When mounting antennas to the connectors, ensure that you have selected the appropriate band for the configured radio. Radio 1 is a 2.4 GHz radio.

Three antenna suites are available supporting 2.4 GHz band, 5 GHz band, and dual band options. Select an antenna model best suited to the intended operational environment of your Access Point.

The 2.4 GHz antenna suite includes the following models:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Antenna Type</th>
<th>Maximum Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML-2499-HPA8-01</td>
<td>Outdoor rated dipole antenna; N-Male Connector</td>
<td>8</td>
</tr>
<tr>
<td>ML-2499-HPA4-01</td>
<td>Outdoor rated dipole antenna; N-Male Connector</td>
<td>4</td>
</tr>
<tr>
<td>ML-2499-HPA3-01R</td>
<td>Outdoor rated dipole antenna; RP-BNC Male Connector</td>
<td>8</td>
</tr>
</tbody>
</table>

The 5 GHz antenna suite includes the following models:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Antenna Type</th>
<th>Maximum Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML-5299-HPA5-01</td>
<td>Outdoor rated dipole antenna; N-Male Connector</td>
<td>5</td>
</tr>
<tr>
<td>ML-5299-FHPA6-01</td>
<td>Outdoor rated dipole antenna; N-Male Connector</td>
<td>8</td>
</tr>
</tbody>
</table>

The dual band antenna suite includes the following model:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Antenna Type</th>
<th>Maximum Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML-2452-HPAG5A8-01</td>
<td>Outdoor rated dipole antenna; N-Male Connector</td>
<td>5</td>
</tr>
</tbody>
</table>

Dual band antennas should only be used on Radio 2-0 and Radio 2-1 connectors. For up-to-date information on supported antennas and antenna specifications, please refer to the Enterprise Wireless LAN Antenna Specification Guide available on the Support site. For more information, refer to www.zebra.com/support.
2.6 LED Indicators
Both internal antenna and external antenna AP6562 Series Access Points have LED activity indicators on the front of the case.
The LEDs provide a status display indicating error conditions, transmission, and network activity for the 5 GHz 802.11an (amber) radio or the 2.4 GHz 802.11bgn (green) radio.

<table>
<thead>
<tr>
<th>Task</th>
<th>5 GHz Activity LED (Amber)</th>
<th>2.4 GHz Activity LED (Green)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unadopted</td>
<td>Off</td>
<td>Blink interval at 5 times a second</td>
</tr>
<tr>
<td>Normal</td>
<td>• If this radio band is enabled:</td>
<td>• If this radio band is enabled:</td>
</tr>
<tr>
<td>Operation</td>
<td>Blink at 5 second interval</td>
<td>Blink at 5 second interval</td>
</tr>
<tr>
<td></td>
<td>• If this radio band is disabled:</td>
<td>• If this radio band is disabled:</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Off</td>
</tr>
<tr>
<td></td>
<td>• If there is activity on this band:</td>
<td>• If there is activity on this band:</td>
</tr>
<tr>
<td></td>
<td>Blink interval at 1 time per second</td>
<td>Blink interval at 1 time per second</td>
</tr>
<tr>
<td>Firmware</td>
<td>On</td>
<td>Off</td>
</tr>
<tr>
<td>Update</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensor Mode</td>
<td>Blink interval at 5 times a second</td>
<td>Blink interval at 5 times a second</td>
</tr>
</tbody>
</table>
3 Basic Access Point Configuration

For a WiNG Express SKU (AP6562E), both the UI and an over the air (OTA) provisioning configuration are required for a basic setup and network connection. For a non WiNG Express SKU (AP6562), there's no OTA support, and the Access Point utilizes just the UI for its basic setup.

NOTE For information on using the user interface beyond this initial setup, refer to the WiNG Express Users Guide to familiarize yourself with the Access Point operating system. The guide is available at www.zebra.com/support.

To provide the Access Point a basic configuration and access management functions:

1. Power up the Access Point.
   The Access Point can be powered using an appropriately rated power adapter, POE injector or POE switch resource.

2. Connect to the Access Point.
   For WiNG Express models:
   Connect to the WiNG Express SSID. For Windows systems, locate the SSID by selecting the network icon on the bottom right corner of the screen. For MAC systems, locate the SSID by selecting the network icon on the top right corner of the screen.

   Open a browser (Chrome, Firefox or Internet Explorer) and enter http://express.zebra.com. The login screen displays.

   For non-WiNG Express models:
   Refer to the bottom of the Access Point to obtain the numeric IP address used for connecting to the device. Point the Web browser to the Access Point’s IP address. The login screen displays.
3. Enter the default username *admin* in the **Username** field.

4. Enter the default password *admin123* in the **Password** field.

5. Select the **Login** button to load the management interface.

   If this is the first time the interface has been accessed, a screen displays prompting for the Access Point’s country code.

   ![Select Country Code](image)

6. Select the **Country Code** specific to this Access Point’s deployment location.

   Selecting the correct country is central to legal operation. Each country has its own regulatory restrictions concerning electromagnetic emissions and the maximum RF signal strength that can be transmitted. Select **Apply** to implement the selected Country Code. SKU’s only support certain countries (for example: a US SKU only includes US, Guam, Puerto Rico, American Samoa, US Virgin Islands and Mariana Island).

   The Access Point automatically displays a **Dashboard** where users can assess network health and conduct a diagnostic review of Access Point performance.

---

**NOTE**  At some point in the Access Point’s initial setup, the default password should be changed to enhance the security of the Access Point. Refer to the **Configuration > Management** screen to change the default password to a more secure password.
7. Expand the **Configuration** menu item and select **Basic**.

![Basic Configuration Settings]

8. Set the following **Basic Configuration Settings** for this Access Point:

- **AP Name** - Provide an AP Name used as this Access Point’s network identifier. If setting this Access Point as a Virtual Controller, each Access Point managed by this Virtual Controller lists this Access Point’s AP Name as its own. The AP Name is a required parameter.

- **Country Code** - If the Country Code was not set when the Access Point was initially powered on, set the country now to ensure the Access Point’s legal operation. The Access Point’s wireless capabilities are disabled until the required country code is set.

- **Virtual Controller** - Select this option to define this Access Point as a Virtual Controller capable of managing and provisioning up to 24 Access Points of the same model. If selecting this Access Point as a Virtual Controller, those Access Points managed by this Virtual Controller will list this Access Point’s AP Name as its own. Only one Virtual Controller can be designated.

- **Timezone** - Use the drop-down menu to specify the geographic timezone where the Access Point is deployed. Different geographic time zones have daylight savings clock adjustments, so specifying the timezone correctly is important to account for geographic time changes.

- **Date & Time** - Set the date, hour and minute for the Access Point’s current system time. Specify whether the current time is in the **AM** or **PM**.

- **NTP Server** - Optionally provide the IP address of a NTP server resource. **Network Time Protocol** (NTP) manages time and/or network clock synchronization within the network. NTP is a client/server implementation. Access Points (NTP clients) periodically synchronize their clock with a master clock (an NTP server). For example, an Access Point resets its clock to 07:04:59 upon reading a time of 07:04:59 from its designated NTP server.

9. Select **Apply** to implement the updates.
10. Expand the **Configuration** menu item and select **WAN**.

11. Refer to the **WAN Settings** field and set the following:

   - **Enable** - Select this option to allow a connection between the Access Point and a larger network or outside world through the WAN port. Disable this option to isolate the WAN connection. No connections to a larger network or Internet are possible. Clients cannot communicate beyond configured subnets. Both the physical *Port* used to connect to the WAN and the virtual *Interface* (VLAN) are also listed and fixed.

   - **DHCP Client** - Select this option to enable DHCP for the Access Point WAN connection. This is useful, if the target network or Internet Service Provider (ISP) uses DHCP. DHCP is a protocol that includes mechanisms for IP address allocation and delivery of host-specific configuration parameters from a DHCP server to a host. Some of these parameters are IP address, network mask, and gateway. The WAN and LAN ports should not both be configured as DHCP clients.

   - **Static IP** - Select this option to bypass DHCP address allocation resources and manually set the IP address for the Access Point's WAN connection. Manually provide the Access Point's Static IP/Mask and Default Gateway.

   - **PPPoE Settings** - Optionally enable Point-to-Point Protocol over Ethernet (PPPoE) on the WAN network. If PPPoE is enabled, provide the required *Auth Type*, *Login Name* and *Login Password*. Server Name and Default Gateway are optional settings. PPP is a data-link protocol for dialup connections allowing an Access Point to use a broadband modem (DSL, cable modem, etc.) for access to high-speed data and broadband networks. Most DSL providers support (or deploy) the PPPoE protocol. PPPoE uses standard encryption, authentication, and compression as specified by the PPPoE protocol. PPPoE enables the Access Point to establish a point-to-point connection to an ISP over an existing Ethernet interface.

   - **Static IP / Mask** - Specify an IP address for the WAN connection if using static address assignment for the WAN port. An IP address uses a series of four numbers expressed in dot notation, for
example, 190.188.12.1. Additionally, specify a Mask for the Access Point’s WAN connection. This number is available from the ISP for a DSL or cable-modem connection, or from an administrator if the Access Point connects to a larger network.

- **Primary/Secondary DNS/Default Gateway** - If using a static IP or DHCP, enter the Primary and Secondary DNS server resource’s numerical IP address and Default Gateway.

![NOTE](image)

If segmenting traffic between the Access Point’s WAN and LAN, you’ll need to create a VLAN. Complete steps 13 and 14 to define the required VLAN. Otherwise, proceed to step 15.

12. Select **Apply** to implement the updates.

13. Expand the **Configuration** menu item and select **Access Points**. Each **AP Name** displays as a link that can be selected to update the configuration of that specific Access Point. Select a target AP Name link from amongst those displayed in the Access Points screen.

![Edit -> AP-08-15E54C](image)

Refer to the **LAN IP Interface Settings** field, and add a VLAN and Static IP as required for enabling DHCP (within the **Configuration > Services** screen) for client IP address requests and ensuring routable traffic.
14. Select **Apply** to commit the updates to the selected Access Point’s configuration.

15. Expand the **Configuration** menu item and select **Wireless**.

The Wireless screen displays fields where **Radio Settings** and **Wireless LAN** settings can be defined. Its recommended the default radio settings remain as is for the Access Point’s basic setup. For information on using the user interface beyond this initial setup, refer to the **WiNG Express Users Guide**. The guide is available at [www.zebra.com/support](http://www.zebra.com/support).

In respect to the **Radio Settings**, the professional installer should be aware of the following:

- The **Channels** available for configuration are channels for which the product is approved in its selected country. The professional installer must ensure the product is set to operate under conditions, and on channels, approved by country regulations.

- Selecting **Smart** as the **Power** setting automatically configures radio power to not exceed the maximum power allowed by the defined country. For static power settings, the professional installer must ensure the configured power levels are compliant with local and regional regulations. The county selected automatically limits the maximum output power that can be set.

- For external antenna model Access Points, configure the **Antenna Gain** based on the antenna used in the deployment. The set gain value should include the antenna gain, along with any additional components, such as extension cables used between the Access Point and the antenna.

In respect to the **Wireless LAN** settings, the professional installer should be aware Access Points ship with a default WLAN (WiNGExpress). However, this WLAN does not provide adequate authentication to protect from unauthorized user access. An additional WLAN should be created and validated before deleting the default WLAN.

**NOTE** The above example includes a field for setting the antenna gain. This setting is only available for external antenna model Access Points and does not display for internal antenna model Access Points.
16. To create a new WLAN, select + Add from the upper, left-hand side of the Wireless LAN field.

17. Set the following configuration attributes for the new WLAN:

- **Name** - Provide a unique name for the WLAN as its network identifier. This is a required setting.
- **Enable** - Select this setting to enable this WLAN within the network and to provide some measure of data protection not available in the default WLAN.
- **SSID** - Specify the WLAN's SSID. The WLAN SSID is case sensitive and alphanumeric. SSID length should not exceed 32 characters. This is a required setting. Select **Client-To-Client Communication** to enable client interoperability within this WLAN. The default is disabled, meaning clients are not allowed to exchange packets with other clients. It does not necessarily prevent clients on other WLANs from sending packets to this WLAN, but if this setting is disabled on the other WLAN, clients are not permitted to interoperate at all.

- **WLAN Type** - The screen displays with the **Open** option selected. Naming and saving such a policy (as is) would provide no security and might only make sense in a network wherein no sensitive data is either transmitted or received. This default setting is not recommended.

  If selecting **Secure-PSK**, enter a **WPA2 Key** to password protect the WLAN. Define whether the key is entered in ASCII or HEX characters. Selecting **Show** to expose the key is not recommended.

  If selecting **Secure-802.1x**, provide an IP address (or hostname) and a shared secret (password) used to access an external RADIUS server resource designated to validate user requests to the Access Point’s WLAN resources.

  Selecting **Guest** displays fields for captive portal Web page creation, and is beyond the scope of this basic Access Point configuration.

- **Band** - Select the 2.4 GHz and/or 5 GHz radio bands supported by the Access Point and its connected client traffic. If this Access Point is designated as a Virtual Controller AP, both radio bands should be enabled.

- **VLAN** - Use the spinner control to specify a VLAN from 1 - 4,094 for this WLAN. When a client associates with a WLAN, the client is assigned a VLAN by load balance distribution. Do not use VLAN 1 with the WLAN if the WAN port has been enabled.

- **Description** - Optionally enter a WLAN description to further describe the WLAN’s deployment objective within the network.

18. Select **Apply** to commit the updates to the Access Point’s WLAN configuration.
19. Expand the **Configuration** menu item and select **Services**

![DHCP Settings](image)

20. Select **Enable DHCP Server** to ensure the Access Point can provision IP addresses to requesting clients over the specified interface.

**NOTE** A VLAN must be already configured and available to the DHCP server as a viable interface between the Access Point and requesting client. Refer to the **LAN IP Interface Settings** field (within the Edit Access Point screen), and add a VLAN.

Select **Add** and provide a starting and ending IP range of addresses that constitute a pool of addresses available to requesting clients.

21. Select **Apply** to commit the updates to the Access Point’s DHCP configuration.

22. At this point, you’re ready to connect to the network using the security restrictions applied to the newly created WLAN. Ensure the new secure WLAN has been enabled, and check whether a client is able to access the network.

![Internet access](image)

**NOTE** Only when the new WLAN configuration is validated as accessible should the existing default WLAN be deleted.
4 Specifications

4.1 Internal Antenna Access Point Electrical Specifications
An internal antenna Access Point has the following power specifications:

- **Operating voltage**: 36-57 VDC
- **Power in (PoE)**: 802.3at

4.2 Internal Antenna Access Point Physical Specifications
An internal antenna Access Point has the following physical specifications:

- **Dimensions**: 9.1 in W x 9.8 in H x 2.6 in D
  
  23.1cm W x 24.9cm H x 24.9cm D

- **Enclosure**: IP 67 rated, polymeric corrosion resistant, ASTM B117 salt, fog, and rust resistant

- **Weight**: 2.90 lbs / 1.3 kg

- **Operating temperature**: -22°F to +140°F/-30°C to +60°C

- **Storage temperature**: -40°F to +185°F/-40°C to +85°C

- **Operating humidity**: 5 to 95% Relative Humidity non-condensing

- **Storage humidity**: 85% Relative Humidity non-condensing

- **Operating altitude (maximum)**: 8,000 ft/2438.4 m

- **Storage altitude (maximum)**: 30,000 ft/9144.0 m

- **Electrostatic discharge**: EN61000-4-2 Air +/-15kV, Contact +/-8kV

- **Operational shock**: IE60721-3-4, Class 4M3, MIL STD 810F

- **Operational vibration**: IE60721-3-4, Class 4M3

4.3 Internal Antenna Access Point Antenna Specifications
An internal antenna Access Point has the following antenna specifications:

- **Radio 1**: 2.4GHz@5.0dBi

- **Radio 2**: 2.4GHz@3.0dBi, 5.0GHz@6.0dBi
4.4 External Antenna Access Point Electrical Specifications
An external antenna Access Point has the following power specifications:

- **Operating voltage**: 36-57 VDC
- **Power in (PoE)**: 802.3at

4.5 External Antenna Access Point Physical Specifications
An external antenna Access Point has the following physical specifications:

- **Dimensions**: 9.1 in W x 9.8 in H x 2.6 in D
  
  23.1cm W x 24.9cm H x 24.9cm D

- **Enclosure**: IP 67 rated, polymeric corrosion resistant, ASTM B117 salt, fog, and rust resistant

- **Weight**: 2.90 lbs / 1.3 kg

- **Operating temperature**: -22°F to +140°F / -30°C to +60°C
- **Storage temperature**: -40°F to +185°F / -40°C to +85°C

- **Operating humidity**: 5 to 95% Relative Humidity non-condensing
- **Storage humidity**: 85% Relative Humidity non-condensing

- **Operating altitude (maximum)**: 8,000 ft/2438.4 m
- **Storage altitude (maximum)**: 30,000 ft/9144.0 m

- **Electrostatic discharge**: EN61000-4-2 Air +/-15kV, Contact +/-8kV

- **Operational shock**: IE60721-3-4, Class 4M3, MIL STD 810F

- **Operational vibration**: IE60721-3-4, Class 4M3
4.6 Radio Specifications

AP6562 Series Access Points have the following radio specifications:

**Data rates supported**
- 802.11b/g: 1,2,5.5,11,6,9,12,18,24,36,48, and 54Mbps
- 802.11a: 6,9,12,18,24,36,48, and 54Mbps
- 802.11n: MCS 0-15 up to 300Mbps

**Network standard**
- 802.11a, 802.11b, 802.11g, 802.11n

**Wireless medium**
- Direct Sequence Spread Spectrum (DSSS)
- Orthogonal Frequency Division Multiplexing (OFDM)
- Spatial multiplexing (MIMO)

**Uplink**
- Auto-sensing 10/100/1000 Base-T Ethernet

**Operating Channels**
- Radio 1: 2.4GHz channel 1-13 (2412-2472Mhz), Channel 14 (2484MHZ) Japan only
- Radio 2: 2.4GHz2.4GHz channel 1-13 (2412-2472Mhz), Channel 14 (2484MHZ) Japan only, 5GHz all channels from 5200MHz-5825MHz
- Actual operating frequencies depend upon national regulatory limits.

**Maximum available transmit power**
- 2.4GHz: 21dBm per chain
- 5.0GHz: 20dBm per chain

**Maximum radio transmit power**
- 2400MHz band:
  - Single antenna transmit power: +21dBm
  - Dual antenna composite transmit power: +24dBm
- 5200MHz band:
  - Single antenna transmit power: +20dBm
  - Dual antenna composite transmit power: +23dBm

**Transmit power adjustment**
- 1dB increments
5 Regulatory Information

5.1 Regulatory Information
This guide applies to MODEL: AP6562
All Zebra devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.
Local language translations are available at the following Web site: www.zebra.com/support
Any changes or modifications to Zebra equipment, not expressly approved by Zebra, could void the user’s authority to operate the equipment.
Zebra devices are professionally installed, the Radio Frequency Output Power will not exceed the maximum allowable limit for the country of operation.
Antennas: Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could cause damage and may violate regulations.

5.2 Wireless Device Country Approvals
Regulatory markings, subject to certification, are applied to the device signifying the radio(s) is/are approved for use in the following countries: United States, Canada, Japan, China, S. Korea, Australia, and Europe.
Please refer to the Declaration of Conformity (DoC) for details of other country markings. This is available at www.zebra.com/doc
Note: Europe includes, Austria, Belgium, Bulgaria, Czech Republic, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Operation of the device without regulatory approval is illegal.

5.2.1 Country Selection
Select only the country in which you are using the device. Any other selection will make the operation of this device illegal.
5.2.2 Frequency of Operation – FCC and IC

You are reminded of the need to observe restrictions on the radio devices in fuel depots, chemical plants etc. and areas where the air contains chemicals or particles (such as grain, dust, or metal powders).

5 GHz Only

The use in the UNII (Unlicensed National Information Infrastructure) band 1 (5150-5250 MHz) is restricted to Indoor Use Only; any other use will make the operation of this device illegal.

Industry Canada Statement:

Caution: The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-Channel mobile satellite systems. High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LE-LAN devices.

The professional installer should utilize the Antenna Guides at www.zebra.com/support to ensure a compliant configuration consistent with the FCC Grant and the IC Listing. The transmitter power settings for each of the authorized antennas are contained in the Antenna Guide.

2.4 GHz Only

The available channels for 802.11 b/g operation in the US are Channels 1 to 11. The range of channels is limited by firmware.

5.3 Health and Safety Recommendations

5.3.1 Warnings for Wireless Devices

⚠️ Please observe all warning notices with regard to the usage of wireless devices.

5.3.2 Potentially Hazardous Atmospheres - Fixed Installations

You are reminded of the need to observe restrictions on the radio devices in fuel depots, chemical plants etc. and areas where the air contains chemicals or particles (such as grain, dust, or metal powders).
5.3.3 Safety in Hospitals

Wireless devices transmit radio frequency energy and may affect medical electrical equipment. When installed adjacent to other equipment, it is advised to verify that the adjacent equipment is not adversely affected.

Pacemakers

Pacemaker manufacturers recommended that a minimum of 15cm (6 inches) be maintained between a handheld wireless device and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with independent research and recommendations by Wireless Technology Research.

Persons with Pacemakers:
- Should ALWAYS keep the device more than 15cm (6 inches) from their pacemaker when turned ON.
- Should not carry the device in a breast pocket.
- Should use the ear furthest from the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn OFF your device.

Other Medical Devices

Please consult your physician or the manufacturer of the medical device, to determine if the operation of your wireless product may interfere with the medical device.

5.4 RF Exposure Guidelines

Safety Information

Reducing RF Exposure - Use Properly

Only operate the device in accordance with the instructions supplied.

5.5 International

The device complies with internationally recognized standards covering human exposure to electromagnetic fields from radio devices. For information on "International" human exposure to electromagnetic fields refer to the Declaration of Conformity (DoC) at www.zebra.com/doc.

5.6 Europe

Remote and Standalone Antenna Configurations

To comply with EU RF exposure requirements, antennas that are mounted externally at remote locations or operating near users at stand-alone desktop of similar configurations must operate with a minimum separation distance of 20 cm from all persons.
5.7 US and Canada

Co-located statement
To comply with FCC RF exposure compliance requirement, the antennas used for this transmitter must not be co-located or operating in conjunction with any other transmitter/antenna except those already approved in this filing.

Remote and Standalone Antenna Configurations
To comply with FCC RF exposure requirements, antennas that are mounted externally at remote locations or operating near users at stand-alone desktop of similar configurations must operate with a minimum separation distance of 20 cm from all persons.

To satisfy FCC RF exposure requirements, a mobile transmitting device must operate with a minimum separation distance of 20 cm or more from a person’s body.

5.8 Power Supply
Use ONLY an AP-PSBIAS-7161-US or AP-PSBIAS-7161-WW outdoor rated power supply.

This device can be powered from a 802.3at compliant power source which is certified by the appropriate agencies.

Use of alternative Power Supply will invalidate any approvals given to this unit and may be dangerous.

5.9 Radio Frequency Interference Requirements—FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

Radio Transmitters (Part 15)
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
5.10  Radio Frequency Interference Requirements – Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with Industry Canada licence-exempt RSS standard(s) Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Cet appareil se conforme Canada et Industrie Règles de normes de RSS permis-exempt. L’opération est assujetti au suivre deux conditions : (1) cet appareil ne peut pas causer l’intervention nuisible, et (2) cet appareil doit accepter de l’intervention reçue, y compris l’intervention qui peut causer l’opération non désirée.

Radio Transmitters

For RLAN Devices:

The 5 GHz RLAN’s, for use in Canada, have the following restrictions:

- Restricted Band 5.60 – 5.65 GHz

This device complies with RSS 210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est conforme à la norme CNR-210 d’Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

This radio transmitter (identify the device by certification number, or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed in the Antenna Guides at www.zebra.com/support with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in guide, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Cet émetteur radio (identifient l’artifice par le nombre de certification, ou nombre modèle si la Catégorie II) a été approuvé par l’Industrie le Canada pour opérer avec les types d’antenne énumérés dans l’Antenne Guide à www.zebra.com/support avec l’augmentation permise maximum et a exigé l’impédance d’antenne pour chaque type d’antenne indiqué. Les types d’antenne non inclus dans le guide, en ayant une augmentation plus grande que l’augmentation maximum indiquée pour ce type, sont sévèrement interdits pour l’utilisation avec cet artifice.

Label Marking: The Term "IC:" before the radio certification signifies that Industry Canada technical specifications were met.
5.11 CE Marking and European Economic Area (EEA)

The use of 2.4GHz RLAN's, for use through the EEA, have the following restrictions:

- Maximum radiated transmit power of 100 mW EIRP in the frequency range 2.400 - 2.4835 GHz.
- France outside usage, the equipment is restricted to 2.400-2.45 GHz frequency range.
- Italy requires a user license for outside usage.

5.12 Statement of Compliance

Zebra hereby, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A Declaration of Conformity may be obtained from www.zebra.com/doc.

Korea Warning Statement for Class B

<table>
<thead>
<tr>
<th>기증별</th>
<th>사용 자 안내문</th>
</tr>
</thead>
<tbody>
<tr>
<td>B급 기기 (</td>
<td>이 기기는 가정용 (B급) 으로 전자파적합등록을 한 기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.</td>
</tr>
<tr>
<td>가정용 방송통신기기)</td>
<td></td>
</tr>
</tbody>
</table>

Class B (Broadcasting Communication Device for Home Use)

| Class B (Broadcasting Communication Device for Home Use) | This device obtained EMC registration mainly for home use (Class B) and may be used in all areas. |

5.13 Other Countries

Australia

5GHz RLAN's in Australia is restricted in the following band 5.50 – 5.65GHz.

Brazil

Declarações Regulamentares para AP6562 - Brasil

Nota: A marca de certificação se aplica ao Transceptor, modelo AP6562. Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário. Para maiores informações sobre ANATEL consulte o site: www.anatel.gov.br

Chile

Este equipo cumple con la Resolución No 403 de 2008, de la Subsecretaría de telecomunicaciones, relativa a radiaciones electromagnéticas.
Mexico

Restrict Frequency Range to: 2.450 – 2.4835 GHz.

"La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada."

Taiwan

臺灣

低功率電波輻射性電機管理辦法

第十二條
經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條
低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。
前項合法通信，指依電信規定作業之無線電通信。
低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

在5.25-5.35赫茲頻帶內操作之無線資訊傳輸設備，限於室內使用

Korea

당해 무선설비는 운용 중 전파혼신 가능성이 있음
당해 무선설비는 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없습니다.
5.14 **Waste Electrical and Electronic Waste Equipment (WEEE)**

**English:** For EU Customers: All products at the end of their life must be returned to Zebra for recycling. For information on how to return product, please go to: [www.zebra.com/weee](http://www.zebra.com/weee).

**Français:** Clients de l’Union Européenne: Tous les produits en fin de cycle de vie doivent être retournés à Zebra pour recyclage. Pour de plus amples informations sur le retour de produits, consultez : [www.zebra.com/weee](http://www.zebra.com/weee).

**Español:** Para clientes en la Unión Europea: todos los productos deberán entregarse a Zebra al final de su ciclo de vida para que sean reciclados. Si desea más información sobre cómo devolver un producto, visite: [www.zebra.com/weee](http://www.zebra.com/weee).

**Български:** За клиенти от ЕС: След края на полезния им живот всички продукти трябва да се връщат на Zebra за рециклиране. За информация относно връщането на продукти, моля отидете на адрес: [www.zebra.com/weee](http://www.zebra.com/weee).


**Italiano:** per i clienti dell’UE: tutti i prodotti che sono giunti al termine del rispettivo ciclo di vita devono essere restituiti a Zebra al fine di consentirne il riciclaggio. Per informazioni sulle modalità di restituzione, visitare il seguente sito Web: [www.zebra.com/weee](http://www.zebra.com/weee).

**Português:** Para clientes da UE: todos os produtos no fim de vida devem ser devolvidos à Zebra para reciclagem. Para obter informações sobre como devolver o produto, visite: [www.zebra.com/weee](http://www.zebra.com/weee).

**Nederlands:** Voor klanten in de EU: alle producten dienen aan het einde van hun levensduur naar Zebra te worden teruggestuurd voor recycling. Raadpleeg [www.zebra.com/weee](http://www.zebra.com/weee) voor meer informatie over het terugzenden van producten.

**Polski:** Klienci z obszaru Unii Europejskiej: Produkty wycofane z eksploatacji nale¿y zwrócić do firmy Zebra w celu ich utylizacji. Informacje na temat zwrotu produktów znajd¿y siê na stronie internetowej [www.zebra.com/weee](http://www.zebra.com/weee).

**Čeština:** Pro zákazníky z EU: Všechny produkty je nutné po skončení jejich životnosti vrátit spoleñnosti Zebra k recyklaci. Informace o zpùsobu vrácení produktu najdete na webové stránce: [www.zebra.com/weee](http://www.zebra.com/weee).

**Eesti:** EL klientidele: kõik toodetud tulev nende eluea lõppedes tagastada taaskasutamise eesmärgil Zebra’ile. Lisainformatsiooni saamiseks toote tagastamise kohta külastage palun aadressi: [www.zebra.com/weee](http://www.zebra.com/weee).

**Magyar:** Az EU-ban vásárloknak: Minden tönkrement terméket a Zebra vállalathoz kell eljuttatni újrahasznosítás céljából. A termék visszajuttatásának módjával kapcsolatos tudnivalókért látogasson el a [www.zebra.com/weee](http://www.zebra.com/weee) weboldalra.

**Svenska:** För kunder inom EU: Alla produkter som uppnått sin livslängd måste returneras till Zebra för återvinning. Information om hur du returnerar produkter finns på [www.zebra.com/weee](http://www.zebra.com/weee).

**Suomi:** Asiakkaat Euroopan unionin alueella: Kaikki tuotteet on palautettava kierrätettäväksi Zebra-yhtiöön, kun tuotetta ei enää käytetä. Lisätietoja tuotteen palauttamisesta on osoitteessa [www.zebra.com/weee](http://www.zebra.com/weee).

**Dansk:** Til kunder i EU: Alle produkter skal returneres til Zebra til recirkulering, når de er udtjent. Læs oplysningerne om returnering af produkter på: [www.zebra.com/weee](http://www.zebra.com/weee).

**Ελληνικά:** Για τελάτες στην Ε.Ε.: Όλα τα προϊόντα, στο τέλος της διάρκειας ζωής τους, πρέπει να επιστρέφονται στην Zebra για ανακύκλωση. Για περισσότερες πληροφορίες σχετικά με την επιστροφή ενός προϊόντος, επισκεφθείτε τη διεύθυνση [www.zebra.com/weee](http://www.zebra.com/weee) στο Διαδίκτυο.
5.15 TURKISH WEEE Statement of Compliance

EEE Yönetmeliğine Uygundur
6 Support

If you have a problem with your equipment, contact support for your region.

Contact information is available at: www.zebra.com/support

When contacting support, please provide the following information:

- Serial number of the unit
- Model number or product name
- Software type and version number

Support responds to calls by e-mail, telephone, or fax within the time limits set forth in support agreements. If you purchased your product from a business partner, contact that business partner for support.

6.1 Customer Support Web Sites

The Support Central Web site, located at: www.zebra.com/support provides information and online assistance including developer tools, software downloads, product manuals and online repair requests.

6.2 Manuals

Documentation is available at:

www.zebra.com/support.
## AP6562 Series Access Point China ROHS Compliance

<table>
<thead>
<tr>
<th>部件名称 (Parts)</th>
<th>铅 (Pb)</th>
<th>汞 (Hg)</th>
<th>锌 (Cd)</th>
<th>六价铬 (Cr(VI))</th>
<th>多溴联苯 (PBB)</th>
<th>多溴二苯醚 (PBDE)</th>
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</thead>
<tbody>
<tr>
<td>金属部件 (Metal Parts)</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>电路模块 (Circuit Modules)</td>
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<td>X</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>电缆及电缆组件 (Cables and Cable Assemblies)</td>
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<td>X</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
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<tr>
<td>塑料和聚合物部件 (Plastic and Polymeric Parts)</td>
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</tr>
<tr>
<td>光学和光学组件 (Optics and Optical Components)</td>
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<td>〇</td>
<td>〇</td>
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</tr>
<tr>
<td>电池 (Batteries)</td>
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<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
</tbody>
</table>

本表格依据SJ/T 11364 的规定编制。
O：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
X：表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572 规定的限量要求。（企业可在此处，根
据实际情况对上表中打“×”的技术原因进行进一步说明。）

This table was created to comply with China RoHS requirements for the AP6562 Series Access Point.