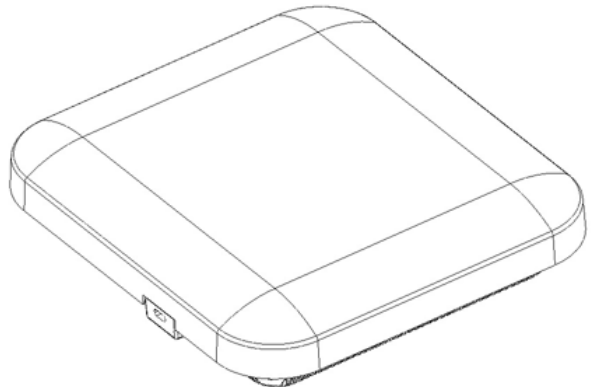
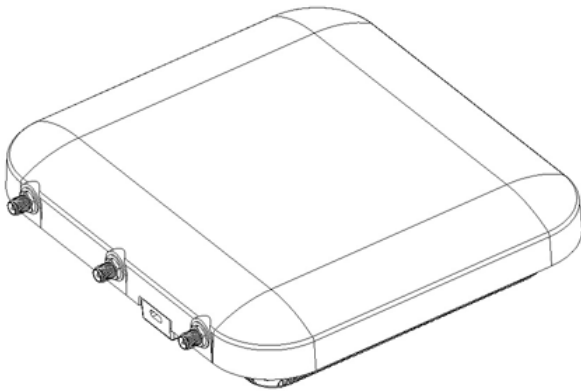


# AP-7532 Access Point INSTALLATION GUIDE



Zebra and the Zebra head graphic are registered trademarks of ZIH Corp. The Symbol logo is a registered trademark of Symbol Technologies, Inc., a Zebra Technologies company.

© 2015 Symbol Technologies, Inc.

<b>1.0 Introduction</b>	<b>5</b>
1.1 Document Conventions	5
1.2 Warnings	6
1.3 Site Preparation	6
1.4 AP-7532 Package Contents	6
1.4.1 Features	6
1.5 AP-7532 Antennas	7
<b>2.0 Hardware Installation</b>	<b>8</b>
2.1 Installation Instructions	8
2.2 Precautions	8
2.3 Access Point Placement	9
2.4 Power Injector System	9
2.5 Wall Mount Instructions	11
2.5.1 Wall Mount Procedure - New Installation	12
2.5.2 Wall Mount Procedure - Existing Access Point Replacement	13
2.6 Suspended Ceiling T-Bar Mount Installation	14
2.7 LED Indicators	17
<b>3.0 Basic Access Point Configuration</b>	<b>19</b>
<b>4.0 AP-7532 Access Point Specifications</b>	<b>30</b>
4.1 Electrical Characteristics	30
4.2 Physical Characteristics	30
4.3 Radio Characteristics	31
<b>5.0 Regulatory Information</b>	<b>32</b>
5.1 Regulatory Information	32
5.2 Wireless Device Country Approvals	32
5.2.1 Country Selection	33
5.2.2 Frequency of Operation - FCC and IC	33
5.3 Health and Safety Recommendations	34
5.3.1 Warnings for the use of Wireless Devices	35

5.3.2 Potentially Hazardous Atmospheres - Fixed Installations . . . . .	35
5.3.3 Safety in Hospitals . . . . .	35
5.4 RF Exposure Guidelines . . . . .	36
5.4.1 Safety Information . . . . .	36
5.4.2 International . . . . .	36
5.4.3 EU . . . . .	36
5.4.4 US and Canada . . . . .	36
5.5 Power Supply . . . . .	37
5.6 Radio Frequency Interference Requirements - FCC . . . . .	37
5.6.1 Radio Transmitters - Part 15 . . . . .	37
5.6.2 Radio Frequency Interference Requirements - Canada . . . . .	37
5.7 CE Marking and European Economic Area (EEA) . . . . .	38
5.8 Statement of Compliance . . . . .	39
5.9 Japan (VCCI) - Voluntary Control Council for Interference . . . . .	39
5.10 Korea Warning Statement for Class B ITE . . . . .	39
5.11 Other Countries . . . . .	39
5.12 Waste Electrical and Electronic Equipment (WEEE) . . . . .	41
5.13 Turkish WEEE Statement of Compliance . . . . .	42
<b>6.0 Support . . . . .</b>	<b>43</b>
<b>7.0 Symbol Technologies End-User Software License Agreement . .</b>	<b>44</b>
<b>8.0 AP-7532 Access Point China ROHS Compliance . . . . .</b>	<b>51</b>

# 1 Introduction

The AP-7532 external antenna and internal antenna Access Point's are mid-tier Access Point's with a relatively small footprint which supports functionality for dependable and efficient network performance. The AP-7532 is a 3x3:3 802.11ac Access Point utilizing one 2.4 GHz 802.11n radio and one 5 GHz 802.11ac radio. The Access Point housing is Plenum-rated (UL2043).

The Access Point's unique WiNG 5 software enables the Access Point to function as either a *Standalone* Access Point, an *Adaptive* Access Point, or a *Virtual Controller*.

If new to Access Point technology, 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](http://www.zebra.com/support).

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:



**NOTE** Tips, hints, or special requirements that you should take note of.

---



**CAUTION** Care is required. Disregarding a caution can result in data loss or equipment malfunction.

---



**WARNING!** Indicates a condition or procedure that could result in personal injury or equipment damage.

---

## 1.2 Warnings

- Read all installation instructions and site survey reports, and verify correct equipment installation before connecting the AP-7532 Access Point.
- Remove jewelry and watches before installing this equipment.
- 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 to determine specific equipment placement, power drops, and so on.
- Assign installation responsibility to the appropriate personnel.
- Identify and document where all installed components are located.
- Ensure adequate, dust-free ventilation to all installed equipment.
- Identify and prepare Ethernet and console port connections.
- Verify cable lengths are within the maximum allowable distances for optimal signal transmission.

## 1.4 AP-7532 Package Contents

An AP-7532 Access Point is available in both external antenna (AP-7532) and internal antenna (AP-7532I) configurations. An AP-7532 ships with the following:

- AP-7532 Access Point
- AP-7532 Installation Guide (*This Guide*)
- Wall mount screws and mounting bracket

### 1.4.1 Features

An AP-7532 Access Point supports the following feature set:

- Two RJ-45 connectors (GE1/POE and Console)
- Two LED indicators
- One 2.4 GHz 802.11n radio and one 5 GHz 802.11ac radio
- 3x3 MIMO, 3 spatial streams

The GE1/POE accepts 802.3at or 802.3af compliant power from an external source.



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

---

## 1.5 AP-7532 Antennas

An AP-7532 external antenna Access Point supports the following dual band antenna options:

<b><i>Part Number</i></b>	<b><i>Antenna Type</i></b>	<b><i>2.4 GHZ Gain (dBi)</i></b>	<b><i>5 GHZ Gain (dBi)</i></b>	<b><i>Impedance (Ohms)</i></b>
ML-2452-APA2-01	Dipole	3.17	4.6	50
ML-2452-HPA5-036	Dipole	3	5	50
ML-2452-APAG2A1-01	Dipole	2.7	1.7	50
ML-2452-PNA5-01R	Panel	5.5	6	50

An AP-7532 internal antenna Access Point supports the following dual band antenna:

<b><i>Part Number</i></b>	<b><i>Antenna Type</i></b>	<b><i>2.4 GHZ Gain (dBi)</i></b>	<b><i>5 GHZ Gain (dBi)</i></b>	<b><i>Impedance (Ohms)</i></b>
BIRCH-INT-ANT	Monopole	4.13	5.92	N/A

# 2 Hardware Installation

## 2.1 Installation Instructions

An AP-7532 Access Point mounts either on a wall (with *M 3.5 x 0.6 x 23 MM* pan head screws and mounting bracket- or equivalent) or on a suspended ceiling T-bar.

To prepare for the installation:

1. Match the part number on the purchase order with the part numbers in the packing list and on the case of the Access Point.
2. Verify the contents of the box include the intended AP-7532 Access Point, and the included hardware matches the package contents (see [AP-7532 Package Contents on page 6](#)).

Part Number	Description
AP-7532-67040-US	AP-7532 dual radio 802.11ac 3x3:3 MIMO Access Point external antenna US version
AP-7532-67040-WR	AP-7532 dual radio 802.11ac 3x3:3 MIMO Access Point external antenna International version
AP-7532-67040-EU	AP-7532 dual radio 802.11ac 3x3:3 MIMO Access Point external antenna EU version
AP-7532-67030-US	AP-7532 dual radio 802.11ac 3x3:3 MIMO Access Point internal antenna US version
AP-7532-67030-WR	AP-7532 dual radio 802.11ac 3x3:3 MIMO Access Point internal antenna International version
AP-7532-67030-EU	AP-7532 dual radio 802.11ac 3x3:3 MIMO Access Point internal antenna EU version

3. Review site survey and network analysis reports to determine the location and mounting position for the AP-7532 Access Point.
4. Connect a CAT-5 or better Ethernet cable to a compatible 802.3at or 802.3af 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 Precautions

Before installing an AP-7532 Access Point, verify the following:

- Your are using the correctly rated power solution for the AP-7532 (either the AP-PSBIAS-2P3-ATR power injector or the PWRS-14000-54R external power supply)
- Do not to install the AP-7532 in wet or dusty areas.
- Verify the environment has a continuous temperature range between -4° F to 104° F/-20° C to 40° C for external antenna Access Points and 32° F to 104° F/0° C to 40° C for internal antenna Access Points.



## 2.3 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.

Antenna coverage is analogous to lighting. Users might find an area lit from far away to be not bright enough. An area lit sharply might minimize coverage and create *dark areas*. Uniform antenna placement in an area (like even placement of a light bulb) provides even, efficient coverage.

Install the Access Point at an ideal height of 10 feet from the ground.

To maximize the Access Point's radio coverage area, recommends conducting a site survey to define and document radio interference obstacles before installing the Access Point.

## 2.4 Power Injector System

An AP-7532 Access Point can receive power via an Ethernet cable connected to the GE1/POE (LAN) port.

When users purchase a WLAN solution, they often need to place Access Points in obscure locations. In the past, a dedicated power source was required for each Access Point in addition to the Ethernet infrastructure. This often required an electrical contractor to install power drops at each Access Point location. The Power Injector merges power and Ethernet into one cable, reducing the burden of installation and allowing optimal Access Point placement in respect to the intended coverage area.



**CAUTION** Using a non-compliant injector, or an injector supporting legacy modes will not allow the AP-7532 to function at optimum performance levels.

---

---



**CAUTION** Do not plug the AP-PSBIAS-2P3-ATR Power Injector into the Access Point's Console port. Connecting the Power Injector into the console port can damage the port and void the AP-7532's product warranty.

---

---

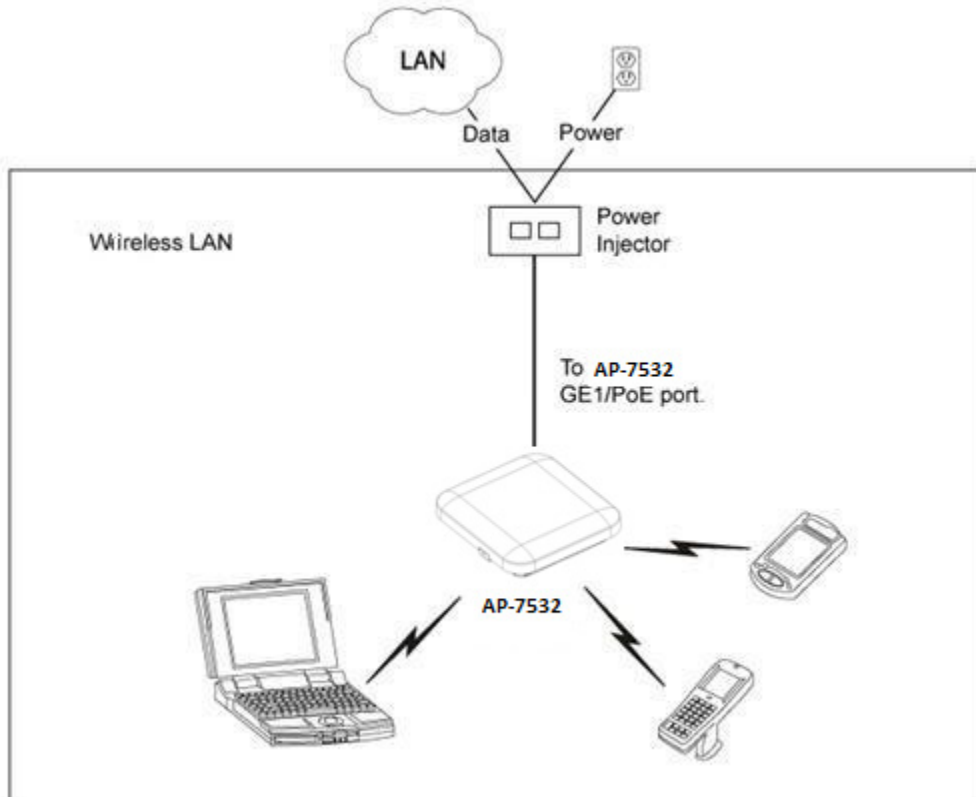
The AP-7532's supported Power Injector (Part No. AP-PSBIAS-2P3-ATR) is a high power POE Injector delivering up to 30 watts. The Access Point can only use a Power Injector when connecting the unit to the Access Point's GE1/POE port. The Power Injector is separately ordered and not shipped with an existing AP SKU.

The Access Point Power Supply (Part No. PWRS-14000-54R) is not included with the Access Point and is orderable separately as an accessory. If the Access Point is provided both POE power and PWRS-14000-54R power concurrently, the Access Point will source power from the PWRS-14000-54R supply only. Disconnecting the AC power from the PWRS-14000-54R causes the Access Point to re-boot before sourcing power from the POE power injector. If the AP is operating using injector supplied power, the AP will not automatically reboot if an AC adapter is connected. The Access Point continues to operate with power supplied from the AC adapter without change to the Access Point operating configuration. If using AC adapter supplied power and a change to the AP's operating configuration is warranted, the Access Point needs to be manually rebooted by the customer.

**CAUTION**

The Access Point supports any standards-based compliant power source. However, using the wrong solution (including a POE system used on a legacy Access Point) could either limit functionality or severely damage the Access Point and void the product warranty.

A separate Power Injector is required for each AP-7532 Access Point comprising the network.



The Power Injector can be installed free standing, on an even horizontal surface or wall mounted using the power injector's wall mounting key holes. The following guidelines should be adhered to before cabling the Power Injector to an Ethernet source and an Access Point:

- Do not block or cover airflow to the Power Injector.
- Keep the Power Injector away from excessive heat, humidity, vibration and dust.
- The Power Injector isn't a repeater, and does not amplify the Ethernet signal. For optimal performance, ensure the Power Injector is placed as close as possible to the data port.



**CAUTION** To avoid problematic performance and restarts, disable POE from a wired switch port connected to an Access Point if mid-span *power sourcing equipment* (PSE) is used between the two, regardless of the manufacturer of the switch.

---

---



**CAUTION** Ensure AC power is supplied to the Power Injector using an AC cable with an appropriate ground connection approved for the country of operation.

---

---

To install the Power Injector to an Ethernet data source and an Access Point:

1. Connect the Power Injector to an AC outlet (110VAC to 220VAC).
2. Connect an RJ-45 Ethernet cable between the Power Injector **Data & Power Out** connector and the Access Point's GE1/POE port.
3. Connect an RJ-45 Ethernet cable between the network data supply (host) and the Power Injector **Data In** connector.

Ensure the cable length from the Ethernet source (host) to the Power Injector and Access Point does not exceed 100 meters (333 ft).

The Power Injector has no On/Off power switch. The Injector receives power and is ready for device connection and operation as soon as AC power is applied. Refer to the *Installation Guide* shipped with the Power Injector for a description of the device's LEDs.

## 2.5 Wall Mount Instructions

A wall mount deployment requires hanging the AP-7532 Access Point with the provided mounting bracket and two screws. The AP-7532 can be mounted on to any plaster, wood or cement wall surface using the provided mounting bracket.

The hardware required to install the AP-7532 on a wall consists of:

- Two wide-shoulder Phillips pan head self-tapping screws (M3.5 x 0.6 x 23 mm)
- Mounting bracket

Optional customer provided installation tools include:

- Phillips head screw driver, or drill and drill bit

### 2.5.1 Wall Mount Procedure - New Installation

This section describes a new AP-7532 installation with no previous Access Point existing on the intended wall surface.

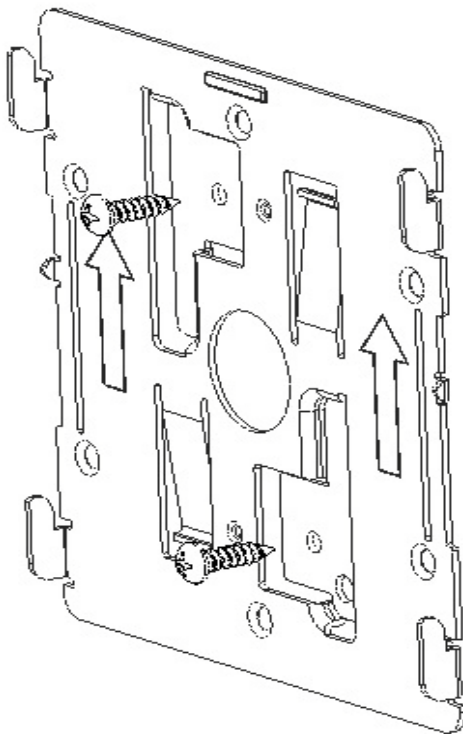
1. Place the mounting bracket against the wall.
2. Mark the screw hole locations depending on the intended deployment orientation of the unit.



**NOTE** When pre-drilling a hole the recommended hole size is 4mm (0.16in.).

---

3. At each point, drill a hole in the wall and attach the mounting bracket.



4. Place the Access Point on the mounting bracket.
5. Cable the Access Point using either the Power Injector solution (AP-PSBIAS-2P3-ATR) or the approved AP-7532 power supply (PWRS-14000-54R).

For Power Injector installations:

- a. Connect a RJ-45 CAT5e (or CAT6) Ethernet cable between the Power Injector **Data & Power Out** connector and the Access Point's GE1/POE port.
- b. Connect a RJ-45 CAT5e (or CAT6) Ethernet cable between the network data supply (host) and the Power Injector **Data In** connector.
- c. Ensure the cable length from the Ethernet source (host) to the Power Injector and Access Point does not exceed 100 meters (333 ft). The Power Injector has no On/Off power switch. The Power Injector receives power as soon as AC power is applied.

For standard power adapter (non Power Injector) and line cord installations:

- a. Connect a RJ-45 Ethernet cable between the network data supply (host) and the Access Point's GE1/POE port.
  - b. Verify the power adapter is correctly rated according to the country of operation.
  - c. Connect the power supply line cord to the power adapter.
  - d. Attach the power adapter cable into the power connector on the Access Point.
  - e. Attach the power supply line cord to a power supply.
6. Verify the Access Point is receiving power by observing the LEDs are lit or flashing. For more information on AP-7532 LED behavior, see [LED Indicators on page 17](#).
  7. The Access Point is ready to configure.



**CAUTION** If not using an AP-PSBIAS-2P3-ATR power injector, ensure only the AP-7532's designated power supply (PWRS-14000-54R) is used to supply power to the Access Point. Using an incorrectly rated power supply could damage the Access Point and void the product warranty. Do not actually connect to the power source until the cabling portion of the installation is complete.

---

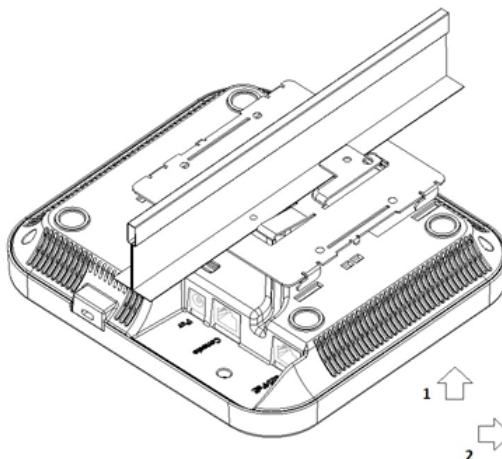
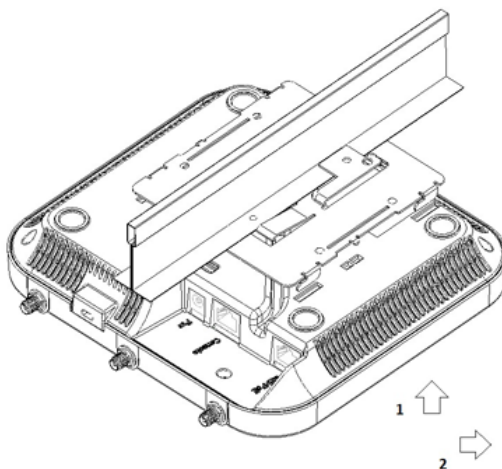
## 2.5.2 Wall Mount Procedure - Existing Access Point Replacement

An existing AP-7131 or AP-7131N Series Access Point installed on a wall can be replaced by an AP-7532. Simply remove the existing AP-7131 or AP-7131N and install the new provided mounting bracket for AP-7532 directly to the wall. The cabling procedure for such a replacement is as described in the previous section.

## 2.6 Suspended Ceiling T-Bar Mount Instructions

Ceiling mount requires holding the AP-7532 up against a T-bar of a suspended ceiling grid and twisting the unit on to the T-bar. If deploying the AP-7532 on a sculpted ceiling T-Bar, the Access Point mounting kit (Part No. KT-135628-01) can optionally be used as well.

1. First install the mounting bracket on the T-bar then attach the mounting bracket using the mounting slots on the Access Point.



2. Cable the Access Point using either the Power Injector solution (AP-PSBIAS-2P3-ATR) or the approved AP-7532 power supply (PWRS-14000-54R).

For Power Injector installations:

- a. Connect a RJ-45 CAT5e (or CAT6) Ethernet cable between the network data supply (host) and the Power Injector **Data In** connector.
- b. Connect a RJ-45 CAT5e (or CAT6) Ethernet cable between the Power Injector **Data & Power Out** connector and the Access Point's GE1/POE port.
- c. Ensure the cable length from the Ethernet source (host) to the Power Injector and Access Point does not exceed 100 meters (333 ft). The Power Injector has no On/Off power switch. The Power Injector receives power as soon as AC power is applied.

For standard power adapter (non Power Injector) and line cord installations:

- a. Connect a RJ-45 Ethernet cable between the network data supply (host) and the Access Point's GE1/POE port.
- b. Verify the power adapter is correctly rated according the country of operation.
- c. Connect the power supply line cord to the power adapter.
- d. Attach the power adapter cable into the power connector on the Access Point.
- e. Attach the power supply line cord to a power supply.



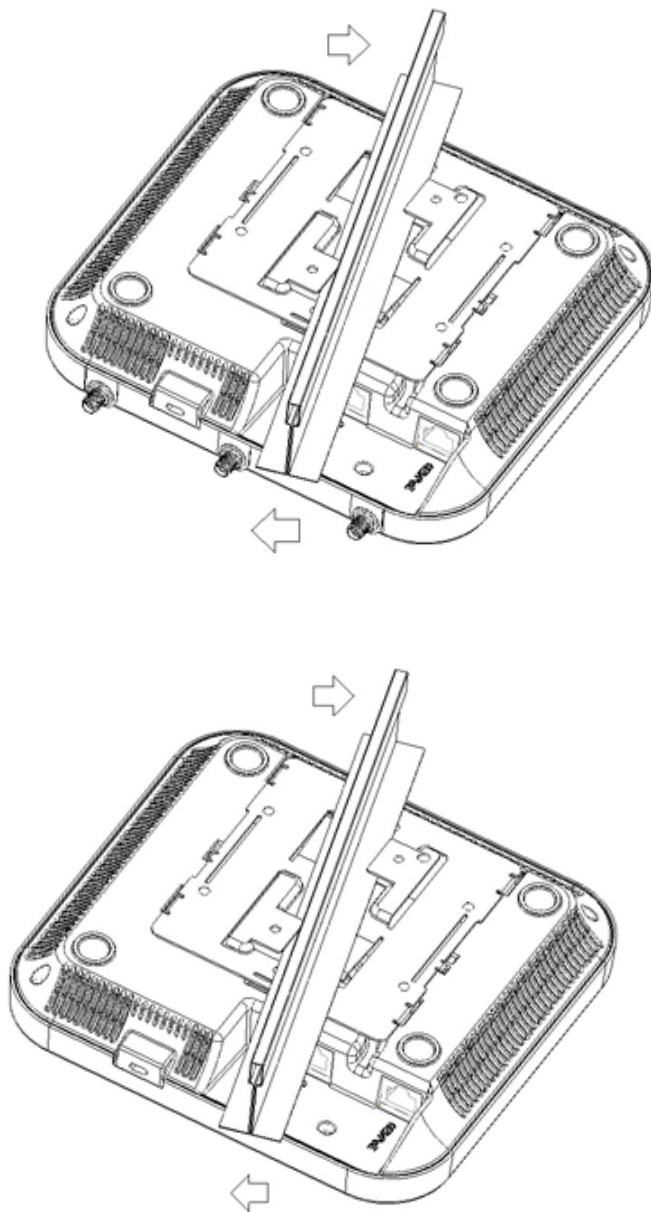
**CAUTION** If not using an AP-PSBIAS-2P3-ATR power injector, ensure only the AP-7532's designated power supply (PWRS-14000-54R) is used to supply power to the Access Point. Using an incorrectly rated power supply could damage the Access Point and void the product warranty. Do not actually connect to the power source until the cabling portion of the installation is complete.

---

---

3. Verify the unit has power by observing the LEDs. For more information on AP-7532 LED behavior, see [LED Indicators on page 17](#).
4. Align the bottom of the ceiling T-bar with the back of the Access Point.
5. Orient the Access Point chassis by its length and the length of the ceiling T-bar.
6. Rotate the Access Point chassis 45 degrees clockwise.
7. Push the back of the Access Point chassis on to the bottom of the ceiling T-bar.

8. Rotate the Access Point chassis 45 degrees counter-clockwise. The clips click as they fasten to the T-bar.

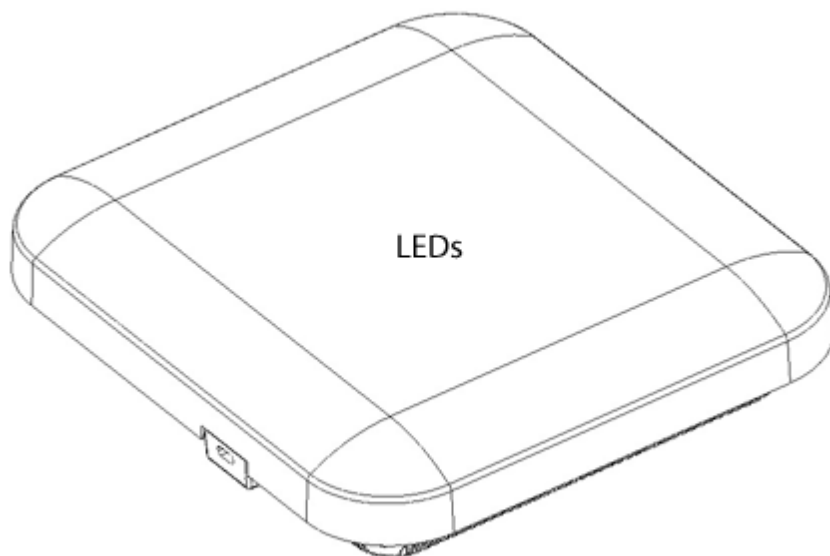
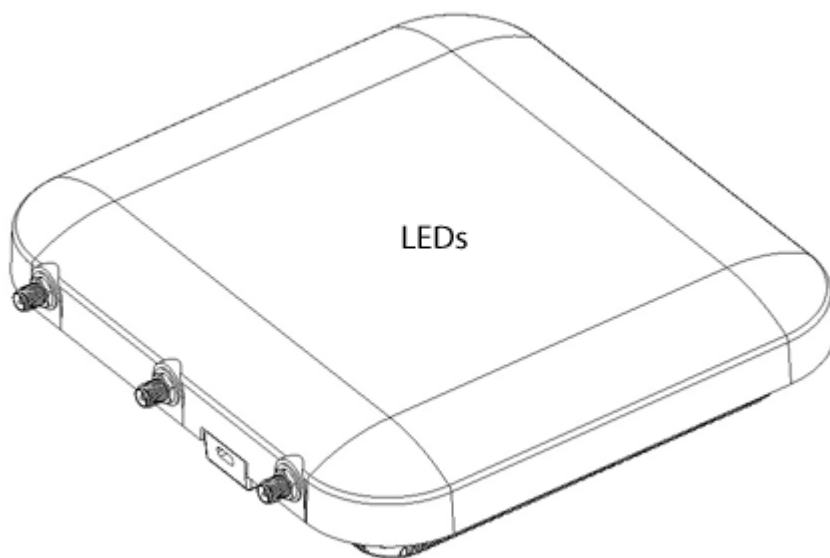


9. The Access Point is ready to configure.



## 2.7 LED Indicators

The AP-7532 LED activity indicators are located on the front of the housing and are visible through the enclosure.



The LEDs provide a status display indicating error conditions, transmission, and network activity for the 5 GHz 802.11ac (amber) radio and the 2.4 GHz 802.11n (green) radio.

<b>Task</b>	<b>5 GHz Activity LED (Amber)</b>	<b>2.4 GHz Activity LED (Green)</b>
Unconfigured Radio	On	On
Normal Operation	<ul style="list-style-type: none"> <li>• If this radio band is enabled: Blink at 5 second interval</li> <li>• If this radio band is disabled: Off</li> <li>• If there is activity on this band: Blink interval at 1 time per second</li> </ul>	<ul style="list-style-type: none"> <li>• If this radio band is enabled: Blink at 5 second interval</li> <li>• If this radio band is disabled: Off</li> <li>• If there is activity on this band: Blink interval at 1 time per second</li> </ul>
Firmware Update	On	Off
Locate AP Mode	LEDs blink in an alternating green, red and amber pattern using an irregular blink rate. This LED state in no way resembles normal operating conditions.	LEDs blink in an alternating green, red and amber pattern using an irregular blink rate. This LED state in no way resembles normal operating conditions

### 3 Basic Access Point Configuration

Once the AP-7532 is installed and powered on, complete the following steps to get the Access Point up and running and access management functions:

1. The Access Point's IP address is optimally provided using DHCP. A zero config IP address can also be derived if DHCP resources are unavailable. Using zero config, the last two octets in the IP address are the decimal equivalent of the last two bytes in the Access Point's hardcoded MAC address.

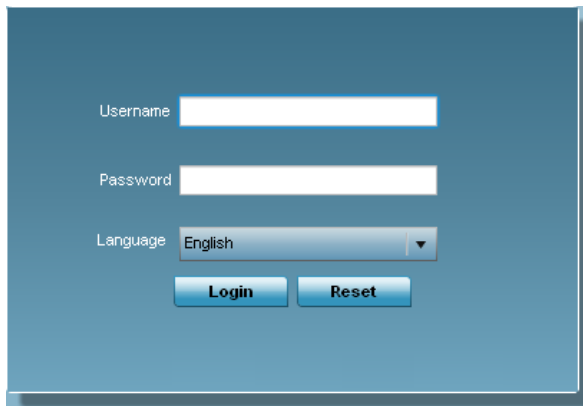
For example:

MAC address - 00:C0:23:00:F0:0A

Zero-config IP address - 169.254.240.10

To derive the Access Point's IP address using its MAC address:

- a. Open the Windows calculator by selecting *Start > All Programs > Accessories > Calculator*. This menu path may vary slightly depending on your version of Windows.
  - b. With the Calculator displayed, select *View > Scientific*. Select the **Hex** radio button.
  - c. Enter a hex byte of the Access Point's MAC address. For example, F0.
  - d. Select the **Dec** radio button. The calculator converts F0 into 240. Repeat this process for the last Access Point MAC address octet.
2. Point the Web browser to the Access Point's IP address. The following login screen displays:

The image shows a web-based login interface for an Access Point. It has a blue background with a white border. There are three input fields: 'Username' with a white text box, 'Password' with a white text box, and 'Language' with a dropdown menu showing 'English'. Below these fields are two buttons: 'Login' and 'Reset', both with blue backgrounds and white text.

3. Enter the default username *admin* in the **Username** field.
4. Enter the default password *admin123* in the **Password** field.
5. Click the **Login** button to load the management interface.



**NOTE** When logging in for the first time, you're prompted to change the password to enhance device security in subsequent logins.



**NOTE** If you get disconnected when running the wizard, you can connect again with the Access Point's actual IP address (once obtained) and resume the wizard.

6. If this is the first time the management interface has been accessed, the Initial Setup Wizard automatically displays.



#### Function Highlight

- Access Point Types: Virtual Controller AP, Standalone AP, or Dependent AP
- Networking Mode: Bridge or Router Operation
- LAN Configuration
- Radio Configuration
- WAN Configuration
- Wireless LAN Setup
- Location, Country Code, Time Zone, Date and Time
- Summary and Save/Commit

#### Choose One Type to Setup the Access Point

- ☒ Typical Setup (Recommended)
  - The wizard uses as many default parameters as possible to simplify the configuration process.
- ☐ Advanced Setup
  - With this selection, you may configure the access point's LAN, WAN, Radio Mapping, Radius Server, WLAN, etc.



**NOTE** The Initial Setup Wizard displays the same pages and content for each Access Point type supported. The only difference being the number of radios configurable by Access Point type, as an AP7131 Access Point can support up to three radios, AP6522, AP6532, AP6562, AP8132 and AP7161 Access Points support two radios and AP6511 and AP6521 Access Points support a single radio.

The Introduction screen displays the various actions that can be performed using the wizard under the **Function Highlight** field.

Use the **Choose One type to Setup the Access Point** field options to select the type of wizard to run. The **Typical Setup** is the recommended wizard. This wizard uses the default parameters for most of the configuration parameters and sets up a working network with the least amount of manual configuration.

The **Advanced Setup** wizard is for administrators who prefer more control over the different configuration parameters. A few more configuration screens are available for customization when the Advanced Setup wizard is used.

The first page of the *Initial Setup Wizard* displays the **Navigation Panel** and **Function Highlights** for the configuration activities comprising the Access Point's initial setup. This page also displays options to select the typical or advanced mode for the wizard.

The Navigation Panel for the Typical Setup Wizard displays the basic configuration options.



A green checkmark to the left of an item in the **Navigation Panel** defines the task as having its minimum required configuration set correctly. A red X defines a task as still requiring at least one parameter be defined correctly.

7. Select **Save/Commit** within each page to save the updates made to that page's configuration. Select **Next** to proceed to the next page listed in the Navigation Panel without saving your updates.



**NOTE** While you can navigate to any page in the navigation panel, you cannot complete the Initial AP Setup Wizard until each task in the Navigation Panel has a green checkmark.

For the purposes of this guide, use the **Typical Setup (Recommended)** option to simplify the process of getting the Access Point up and running quickly with a minimum number of changes to the Access Point's default configuration.

For information on using the Access Point's Advanced Setup option, refer to the *WiNG Access Point System Reference Guide* to familiarize yourself with the feature set supported by the WiNG operating system. The guide is available at [www.zebra.com/support](http://www.zebra.com/support).

To configure the Access Point using the Typical Setup Wizard:

8. Select **Typical Setup** from the **Choose One type to Setup the Access Point** field on the Initial Setup Wizard.
9. The Typical Setup Wizard displays the **Access Point Settings** screen to define the Access Point's Standalone versus Virtual Controller AP functionality. This screen also enables selection of the country of operation for the Access Point.



#### Access Point Type Selection

- ☐ Virtual Controller AP - When more than one access point is deployed, a single access point can function as a Virtual Controller AP and manage Dependent mode access points. The Virtual Controller AP can adopt and configure other like APs in a 24-cell deployment.
- ☒ Standalone AP - Select this option to deploy this access point as an autonomous "fat" access point. A standalone AP isn't managed by a Virtual Controller AP, or adopted by a controller.

Country



**NOTE** The professional installer should refer to the *WiNG Access Point System Reference Guide* available at [www.zebra.com/support](http://www.zebra.com/support) for detailed information on how to set the Access Point's transmit power, antenna gain and channel in respect to the deployment country's unique regulatory requirements.

10. Select an **Access Point Type** from the following options:

- *Virtual Controller AP* - When more than one Access Point is deployed, a single Access Point can function as a Virtual Controller AP. Up to 24 Access Points can be connected to, and managed by, a single Virtual Controller AP of the same Access Point type. These connected Access Points must be the same type as the Virtual Controller AP.
- *Standalone AP* - Select this option to deploy this Access Point as an autonomous fat Access Point. A Standalone AP isn't managed by a Virtual Controller AP, or adopted by a controller.



**NOTE** If wanting to adopt the Access Point to a controller or service platform, use the controller or service platform's resident UI to connect to the Access Point, provision its configuration and administrate the Access Point's configuration.

---



**NOTE** If designating the Access Point as a Standalone AP, its recommended the Access Point's UI be used exclusively to define its device configuration, and not the CLI. The CLI provides the ability to define more than one profile and the UI does not. Consequently, the two interfaces cannot be used collectively to manage profiles without an administrator encountering problems.

---

11. Select the **Country Code** of the country where the Access Point is deployed. Selecting a proper country is a critical task while configuring the Access Point, as it defines the correct channels of operation and ensures compliance to the regulations of the selected country. This field is only available for the Typical Setup Wizard.

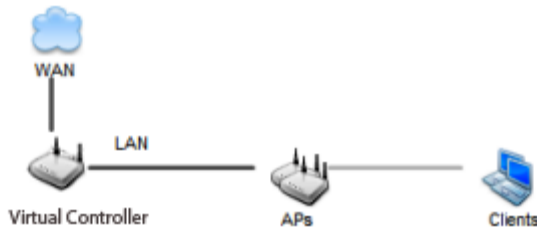
12. Select **Next** to set the Access Point's network mode.

13. The Typical Setup Wizard displays the **Network Topology** screen to define how the Access Point handles network traffic.

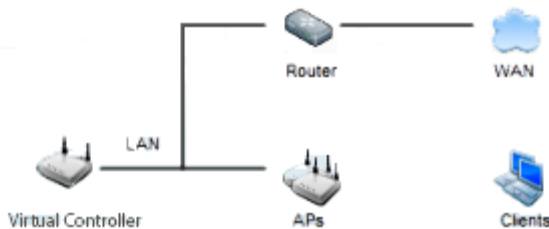
### Network Topology

---

- ☒ Router Mode - the access point routes traffic between the wireless network and the Internet or corporate network (WAN).



- ☐ Bridge Mode - In Bridge Mode, the access point depends on an external router for routing LAN and WAN traffic. Routing is generally used on one device, whereas bridging is typically used in a larger density network. Thus, select Bridge Mode when deploying this access point with numerous peer APs supporting clients on both the 2.4 and 5GHz radio bands.



14. Select an Access Point Mode from the available options.


- *Router Mode* - In Router Mode, the Access Point routes traffic between the local network (LAN) and the Internet or external network (WAN). Router mode is recommended in a deployment supported by just a single Access Point.
- *Bridge Mode* - In Bridge Mode, the Access Point depends on an external router for routing LAN and WAN traffic. Routing is generally used on one device, whereas bridging is typically used in a larger density network. Select Bridge Mode when deploying this Access Point with numerous peer Access Points supporting clients on both the 2.4GHz and 5GHz radio bands.



**NOTE** When Bridge Mode is selected, WAN configuration cannot be performed and the Typical Setup Wizard does not display the WAN configuration screen.



15. Select **Next**. The Typical Setup Wizard displays the **LAN Configuration** screen to set the Access Point's LAN interface configuration.


**LAN Configuration**

---

Please configure interface settings for LAN (VLAN 1) which will be used by wireless clients

☐ Use DHCP [What is this?](#)

☒ Static IP Address/Subnet [What is this?](#)
 /  \*

**DHCP Server**

---

☐ Use on-board DHCP server to assign IP addresses to wireless clients

Range  --

Default Gateway

**Domain Name Server (DNS)**


---

☒ DNS Forwarding

Primary DNS 
 Secondary DNS

16. Set the following DHCP and Static IP Address/Subnet information for the LAN interface:
- *Use DHCP* - Select the checkbox to enable an automatic network address configuration using the Access Point's DHCP server.
  - *Static IP Address/Subnet* - Enter an IP Address and a subnet for the Access Point's LAN interface. If *Use DHCP* is selected, this field is not available. When selecting this option, define the following *DHCP Server* and *Domain Name Server (DNS)* resources, as those fields will become enabled on the bottom portion of the screen.
    - *Use on-board DHCP server to assign IP addresses to wireless clients* - Select the checkbox to enable the Access Point's DHCP server to provide IP and DNS information to clients on the LAN interface.
    - *Range* - Enter a starting and ending IP Address range for client assignments on the LAN interface. Avoid assigning IP addresses from x.x.x.1 - x.x.x.10 and x.x.x.255, as they are often reserved for standard network services. This is a required parameter.
    - *Default Gateway* - Define a default gateway address for use with the default gateway. This is a required parameter.

- **DNS Forwarding** - Select this option to allow a DNS server to translate domain names into IP addresses. If this option is not selected, a primary and secondary DNS resource must be specified. DNS forwarding is useful when a request for a domain name is made but the DNS server, responsible for converting the name into its corresponding IP address, cannot locate the matching IP address.
    - **Primary DNS** - Enter an IP Address for the main Domain Name Server providing DNS services for the Access Point's LAN interface.
    - **Secondary DNS** - Enter an IP Address for the backup Domain Name Server providing DNS services for the Access Point's LAN interface.
17. Select **Next**. The Typical Setup Wizard displays the **Wireless LAN Setup** screen to set the Access Point's Wireless LAN interface configuration.



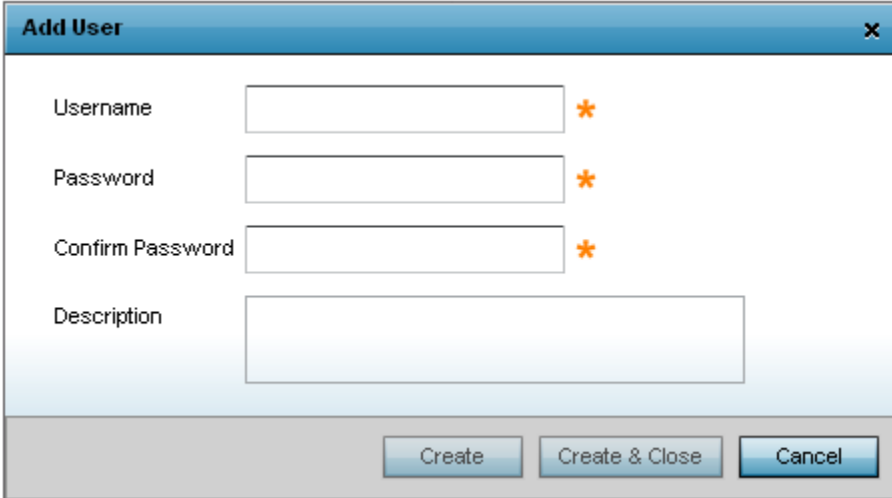
The screenshot shows the 'WLAN 1 Configuration' screen. At the top, there are two tabs: 'WLAN 1' (selected) and 'WLAN 2'. Below the tabs, the 'SSID' is set to 'WLA\_01'. To the right of the SSID field are links for 'What is this?' and a star icon. Under the 'WLAN Type' section, three radio buttons are visible: 'No Authentication and No Encryption' (selected), 'Captive Portal Authentication and No Encryption', and 'PSK authentication, WPA2 encryption'. Each radio button has a corresponding 'What is this?' link.

18. Set the following WLAN1 Configuration parameters:
- **SSID** - Configure the SSID for the WLAN.
  - **WLAN Type** - Configure the encryption and authentication to use with this WLAN.
    - **No Authentication and No Encryption** - Configures a network without any authentication. This option also configures the network without encryption. This means that any data transmitted through the network is in plain text. Any device between end points can see the information transmitted. This is the least secure of all network configurations.
    - **Captive Portal Authentication and No Encryption** - Configures a network that uses a RADIUS server to authenticate users before allowing them on to the network. Once on the network, no encryption is used for the data being transmitted through the network. Select this option to use a Web page (either internally or externally hosted) to authenticate users before access is granted to the network.
    - **PSK authentication, WPA2 encryption** - Configures a network that uses PSK authentication and WPA2 encryption. Select this option to implement a pre-shared key that must be correctly shared between the Access Point and requesting clients using this WLAN.

19. Select **Next**. The Typical Setup Wizard displays the **RADIUS Server Configuration** screen if required.  
Otherwise, the *Typical Setup Wizard* displays the **Summary and Commit** screen.
20. Use the **Radius Server Configuration** screen to configure the users for the onboard RADIUS server. Use the screen to add, modify and remove RADIUS users.

Some WLANs require authentication using the on-board RADIUS server. User accounts must be added for all users that should be authorized by the server.

21. Select **Add User** to display the dialog to enter user information to add to the RADIUS server user database.



22. Enter the following user information:
- *Username* - Provide a user name used to authenticate the user.
  - *Password* - Provide a password used to authenticate the user.
  - *Confirm Password* - Confirm the password by entering the same password as entered in the Password field.
  - *Description* - Provide a description to identify the user created in the RADIUS server database.
23. To create the entry in the RADIUS server database and add another user, select **Create**. To create the entry in the RADIUS server database and close the Add User dialog, select **Create & Close**.
24. Select **Modify User** on the RADIUS Server Configuration screen to modify information for an existing user from the RADIUS database. Highlight the user entry then select **Modify User**.



**NOTE** The *Username* cannot be modified with this dialog.

25. Select **Delete User** on the RADIUS Server Configuration screen to remove information for an existing user from the RADIUS database. Highlight the user entry and select **Delete User**.
26. Select **Confirm** on the dialog displayed. The entry for the user is removed from the RADIUS database.
27. To dismiss the dialog without adding, modifying or removing entries in the RADIUS server database, select **Cancel**.

28. Select **Next**. The Typical Setup Wizard displays the **Summary and Commit** screen to summarize the screens (pages) and settings updated using the Typical Setup Wizard.



### Access Point Type Page

Access Point Type      Standalone AP



### Networking Mode Page

Networking Mode      Router Mode



### LAN Configuration Page

LAN Configuration Type      Static IP Address/Subnet

VLAN ID for the LAN Interface      1

Static IP Address/Subnet      192.168.13.23/24



### WAN Configuration Page

WAN Configuration Type      Use DHCP

Port to External      GE1 Port



### WLAN Configuration

No user intervention or additional settings are required. Its an additional means of validating the Access Point's updated configuration before it's deployed. However, if a screen displays settings not intended as part of the initial configuration, then any screen can be selected again from within the Navigation Panel and its settings modified accordingly.

If the configuration displays as intended, select **Save/Commit** to implement these settings to the Access Point's configuration. If additional changes are warranted based on the summary, either select the target page from the **Navigational Panel**, or use the **Back** and **Next** buttons to scroll to the target screen.

# 4 AP-7532 Access Point Specifications

## 4.1 Electrical Characteristics

An AP-7532 Access Point has the following electrical characteristics:

<i>Operating Current &amp; Voltage</i>	12VDC, 1.25A (AUX input voltage)
	12VDC PWRS-14000-54R power supply
	48VDC, 0.375A (POE)
	802.3at AP-PSBIAS-2P3-ATR Power Injector

## 4.2 Physical Characteristics

An AP-7532 Access Point has the following physical characteristics:

<i>Dimensions</i>	7.1 in. L x 6.5 in. W x 1.6 in. H
	180 mm L x 165 mm W x 41 mm H
<i>Housing</i>	Plenum-rated housing (UL2043)
<i>Weight</i>	1.8 lbs/0.82 kg
<i>Operating Temperature</i>	External antennas: -4° F to 104° F/-20° C to 40° C
	Internal antennas: 32° F to 104° F/0° C to 40° C
<i>Storage Temperature</i>	-40° F to 158° F/-40° C to 70° C
<i>Operating Humidity</i>	85% RH non-condensing
<i>Operating Altitude (maximum)</i>	8,000 ft @ 28C
<i>Storage Altitude (maximum)</i>	30,000 ft @ 12C
<i>Electrostatic Discharge</i>	External antennas: 12KV air, 6 KV contact
	Internal antenna: 15KV air, 8KV contact

### 4.3 Radio Characteristics

The AP-7532 Access Point has the following radio characteristics:

<i>Data Rates Supported</i>	802.11b/g: 1,2,5.5,11,6,9,12,18,24,36,48 and 54 Mbps 802.11a: 6,9,12,18,24,36,48, and 54 Mbps 802.11n: MCS 0-23 up to 450 Mbps 802.11ac: MCS 0-9 up to 1.3 Gbps
<i>Wireless Medium</i>	<i>Direct Sequence Spread Spectrum</i> (DSSS) <i>Orthogonal Frequency Division Multiplexing</i> (OFDM) <i>Spatial multiplexing</i> (MIMO)
<i>Network Standards</i>	IEEE 802.11a/b/g/n/ac 802.11d and 802.11i WPA2 WMM and WMM-UAPSD
<i>Transmit Power Adjustment</i>	1dB increments

## 5 Regulatory Information

### 5.1 Regulatory Information

This guide applies to the following Model Numbers: AP-7532, AP-7532L.

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 Website: [www.zebra.com/support](http://www.zebra.com/support)

Any changes or modifications to Symbol 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.

This device is only to be used with a Zebra Wireless Switch.

Declared maximum operating temperature: 40°C.

### 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 1

Please refer to the *Declaration of Conformity* (DoC) for details of other country markings. This is available at: [www.zebra.com/doc](http://www.zebra.com/doc)

**Note:** For 2.4GHz or 5GHz Products: 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. Some Access Points are specifically designed to operate in certain countries (Example; -US for the United States, -EU for the European Union).

#### **Country Roaming**

This device incorporates the International Roaming feature (IEEE802.11d) which will ensure the product operates on the correct channels for the particular country of use.

### **5.2.2 Frequency of Operation – FCC and IC**

#### **5 GHz Only**

##### **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.

**Avertissement:** Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

Les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

#### **2.4 GHz Only**

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

#### **Indoor Use**

This device was designed for Indoor use.

## 5.3 Health and Safety Recommendations



### Ergonomic Recommendations

**Caution:** In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures

### Vehicle Installation

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles (including safety systems). Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

An air bag inflates with great force. DO NOT place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Position your device within easy reach. Be able to access your device without removing your eyes from the road.

Note: Connection to an alert device that will cause a vehicle horn to sound or lights to flash, on receipt of a call on public roads, is not permitted.

### IMPORTANT

Before installing or using, check state and local laws regarding windshield mounting and use of equipment.

### For Safe installation

- Do not put your phone in a location that obstructs the drivers vision or interferes with the operation of the Vehicle.
- Do not cover an airbag.

## **Safety on the Road**

Do not take notes or use the device while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.

When driving a car, driving is your first responsibility - Give full attention to driving. Check the laws and regulations on the use of wireless devices in the areas where you drive. Always obey them.

### **5.3.1 Warnings for the use of 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 use of 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

### 5.4.1 Safety Information

#### ***Reducing RF Exposure - Use Properly***

Only operate the device in accordance with the instructions supplied.

### 5.4.2 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](http://www.zebra.com/doc).

### 5.4.3 EU

#### ***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 25cm from all persons.

### 5.4.4 US and Canada

#### ***Co-located statement***

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

To satisfy US and Canadian RF exposure requirements, a transmitting device must operate with a minimum separation distance of 25cm or more from a person's body.

Pour satisfaire aux exigences Américaines et Canadiennes d'exposition aux radiofréquences, un dispositif de transmission doit fonctionner avec une distance de séparation minimale de 25cm ou plus de corps d'une personne.

#### **Radiation Exposure Statement**

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 25cm between the radiator and your body.

**NOTE IMPORTANTE:** (Pour l'utilisation de dispositifs mobiles)

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 25cm de distance entre la source de rayonnement et votre corps.

#### ***Remote and Standalone Antenna Configurations***

To comply with FCC RF exposure requirements, Antennas that are mounted externally must be professionally installed at a fixed location and operate with a minimum distance of 25cm from all persons.

To comply with FCC Antenna requirements, the Antenna must be adjusted such that the RF emission lobes are below 30 degrees elevation.

## 5.5 Power Supply

This device must be powered from a 802.3af or 802.3at compliant power source which has been certified by the appropriate agencies, or by an approved UL LISTED ITE (IEC/EN 60950-1, LPS/SELV) power supply with electrical ratings: Output 12 Vdc, min 1.25 A or 48 Vdc min 0.375 A (POE), with a recommended ambient temperature greater than 40 degrees C. Use of alternative power supply will invalidate any approvals given to this unit and may be dangerous.

## 5.6 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.

### 5.6.1 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.

### 5.6.2 Radio Frequency Interference Requirements - Canada

*CAN ICES-3 (B)/NMB-3(B)*

#### Radio Transmitters

For RLAN Devices:

The use of 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Label Marking: The Term "IC:" before the radio certification only signifies that Industry Canada technical specifications were met

In accordance with the regulations of Industry Canada, this radio transmitter can operate with an antenna of a type and a maximum gain (or lower) approved for the transmitter by Industry Canada. With the aim of reducing the risk of radio interference to other users, the chosen antenna type and its gain should be selected so that the equivalent isotropically radiated power (e.i.r.p.) does not exceed the intensity necessary for the establishment of a satisfactory connection.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

In compliance with respective local regulatory law, AP software provides professional installers the option to configure the antenna type and antenna gain for approved antennas.

This radio transmitter (AP-7532, AP-7532I) has been approved by Industry Canada to operate with the antenna types listed below and having a maximum gain allowable and the impedance required for each type of antenna. The antenna types not included in this list, or whose gain is higher than the maximum gain indicates, are strictly prohibited for the operation of the transmitter.

Refer to [AP-7532 Antennas on page 7](#) for a listing of the 2.4 GHz and 5 GHz antennas initially approved for use with AP-7532 and AP7532I Access Points.

Le présent émetteur radio (AP-7532, AP-7532I) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

## 5.7 CE Marking and European Economic Area (EEA)



**WARNING:** This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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.

## 5.8 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](http://www.zebra.com/doc).

## 5.9 Japan (VCCI) - Voluntary Control Council for Interference

### Class B ITE

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としています。この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。

## 5.10 Korea Warning Statement for Class B ITE

기종별	사용자안내문
B급 기기 (가정용 방송통신기자재)	이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

## 5.11 Other Countries

### Australia

Use of 5GHz WLAN's in Australia is restricted in the following band 5.50 – 5.65GHz.

### Brazil

#### Declarações Regulamentares para AP-7532 - Brasil

Nota: A marca de certificação se aplica ao Transceptor, modelo AP-7532. 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](http://www.anatel.gov.br)

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.

Este produto está homologado pela Anatel, de acordo com os procedimentos regulamentados pela Resolução nº242/2000 e atende aos requisitos técnicos aplicados, incluindo os limites de exposição da Taxa de Absorção Específica referente a campos elétricos, magnéticos e eletromagnéticos de radiofrequência, de acordo com as Resoluções nº 303/2002 e 533/2009.

Este dispositivo está em conformidade com as diretrizes de exposição à radiofrequência quando posicionado pelo menos 25 centímetros de distância do corpo. Para maiores informações, consulte o site da Anatel

**Chile**

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

**China****Mexico**

Restrict Frequency Range to: 2.450 – 2.4835 GHz.

**S. Korea**

무선설비는 운용 중 전파혼신 가능성이 있음

당해 무선설비 는전파혼 신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없습니다.

**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 兆赫頻帶內操作之無線資訊傳輸設備，限於室內使用

電磁波曝露量MPE標準值 $1\text{mW}/\text{cm}^2$ ，本產品使用時建議應距離人體：25 cm

**Thailand**

เครื่องโทรคมนาคมและอุปกรณ์นี้ มีความสอดคล้องตามข้อกำหนดของ กทช.



## 5.12 Waste Electrical and Electronic 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).

**Deutsch:** Für Kunden innerhalb der EU: Alle Produkte müssen am Ende ihrer Lebensdauer zum Recycling an Zebra zurückgesandt werden. Informationen zur Rücksendung von Produkten finden Sie unter [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 teruggezonden 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 należy zwrócić do firmy Zebra w celu ich utylizacji. Informacje na temat zwrotu produktów znajduj<sup>1</sup> się 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 společnosti Zebra k recyklaci. Informace o způsobu vrácení produktu najdete na webové stránce: [www.zebra.com/weee](http://www.zebra.com/weee).

**Eesti:** EL klientidele: kõik tooted tuleb 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 vásárlóknak: Minden tönkrement terméket a Zebra vállalatához kell eljuttatni újrahasznosítás céljából. A termék visszajuttatásának módjával kapcsolatos tudnivalóért 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 produkten finns på [www.zebra.com/weee](http://www.zebra.com/weee).

**Suomi:** Asiakkaita 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 πελάτες 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.

**Malti:** Għal klijenti fl-UE: il-prodotti kollha li jkunu waslu fl-aħħar tal-ħajja ta' l-użu tagħhom, iridu jiġu rritornati għand Zebra għar-riċiklaġġ. Għal aktar tagħrif dwar kif għandek tirritorna l-prodott, jekk jogħġbok żur:

[www.zebra.com/weee](http://www.zebra.com/weee).

**Românesc:** Pentru clienții din UE: Toate produsele, la sfârșitul duratei lor de funcționare, trebuie returnate la Zebra pentru reciclare. Pentru informații despre returnarea produsului, accesați: [www.zebra.com/weee](http://www.zebra.com/weee).

**Slovenski:** Za kupce v EU: vsi izdelki se morajo po poteku življenjske dobe vrniti podjetju Zebra za reciklažo. Za informacije o vračilu izdelka obiščite: [www.zebra.com/weee](http://www.zebra.com/weee).

**Slovenčina:** Pre zákazníkov z krajín EU: Všetky výrobky musia byť po uplynutí doby ich životnosti vrátené spoločnosti Zebra na recykláciu. Bližšie informácie o vrátení výrobkov nájdete na: [www.zebra.com/weee](http://www.zebra.com/weee).

**Lietuvių:** ES vartotojams: visi gaminiai, pasibaigus jų eksploatacijos laikui, turi būti grąžinti utilizuoti į kompaniją „Zebra“. Daugiau informacijos, kaip grąžinti gaminį, rasite: [www.zebra.com/weee](http://www.zebra.com/weee).

**Latviešu:** ES klientiem: visi produkti pēc to kalpošanas mūža beigām ir jānogādā atpakaļ Zebra otrreizējai pārstrādei. Lai iegūtu informāciju par produktu nogādāšanu Zebra, lūdzu, skatiet: [www.zebra.com/weee](http://www.zebra.com/weee).

**Türkçe:** AB Müşterileri için: Kullanım süresi dolan tüm ürünler geri dönüştürme için Zebra'ya iade edilmelidir. Ürünlerin nasıl iade edileceği hakkında bilgi için lütfen şu adresi ziyaret edin: [www.zebra.com/weee](http://www.zebra.com/weee).

## 5.13 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](http://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.

### Customer Support Web Sites

The Support site, located at [www.zebra.com/support](http://www.zebra.com/support) provides information and online assistance including developer tools, software downloads, product manuals and online repair requests.

### Manuals

[www.zebra.com/support](http://www.zebra.com/support)

## 7 Symbol Technologies End-User Software License Agreement

This End-User Software License Agreement ("End-User License Agreement") is between Symbol Technologies Inc. (herein "Symbol Technologies") and End-User Customer to whom Symbol Technologies' proprietary software or Symbol Technologies Products containing embedded, pre-loaded, or installed software ("Products") is made available. This End-User License Agreement contains the terms and conditions of the license Symbol Technologies is providing to End-User Customer, and End-User Customer's use of the Software and Documentation. By using, downloading or installing this software, you or the entity that you represent ("End-User Customer") are consenting to be bound by and are becoming a party to this End-User License Agreement.

### 1. DEFINITIONS

**"Documentation"** means product and software documentation that specifies technical and performance features and capabilities, and the user, operation and training manuals for the Software (including all physical or electronic media upon which such information is provided).

**"Open Source Software"** means software with either freely obtainable source code license for modification, or permission for free distribution.

**"Open Source Software License"** means the terms or conditions under which the Open Source Software is licensed.

**"Software"** (i) means proprietary software in object code format, and adaptations, translations, decompilations, disassemblies, emulations, or derivative works of such software; (ii) means any modifications, enhancements, new versions and new releases of the software provided by Symbol Technologies; and (iii) may contain items of software owned by a third party supplier. The term **"Software"** does not include any third party software provided under separate license or third party software not licensable under the terms of this Agreement. To the extent, if any, that there is a separate license agreement packaged with, or provided electronically with, a particular Product that becomes effective on an act of acceptance by the end user, then that agreement supersedes this End-User License Agreement as to the end use of that particular Product.

### 2. GRANT OF LICENSE

- 2.1 Subject to the provisions of this End-User License Agreement, Symbol Technologies grants to End-User Customer a personal, limited, non-transferable (except as provided in Section 4), and non-exclusive license under Symbol Technologies' copyrights and confidential information embodied in the Software to use the Software, in object code form, and the Documentation solely in connection with End-User Customer's use of the Products. This End-User License Agreement does not grant any rights to source code.

- 2.2 If the Software licensed under this End-User License Agreement contains or is derived from Open Source Software, the terms and conditions governing the use of such Open Source Software are in the Open Source Software Licenses of the copyright owner and not this End-User License Agreement. If there is a conflict between the terms and conditions of this End-User License Agreement and the terms and conditions of the Open Source Software Licenses governing End-User Customer's use of the Open Source Software, the terms and conditions of the license grant of the applicable Open Source Software Licenses will take precedence over the license grants in this End-User License Agreement. If requested by End-User Customer, Symbol Technologies will use commercially reasonable efforts to: (i) determine whether any Open source Software is provided under this End-User License Agreement; (ii) identify the Open Source Software and provide End-User Customer a copy of the applicable Open Source Software License (or specify where that license may be found); and, (iii) provide End-User Customer a copy of the Open Source Software source code, without charge, if it is publicly available (although distribution fees may be applicable).

### 3. LIMITATIONS ON USE

- 3.1 End-User Customer may use the Software only for End-User Customer's internal business purposes and only in accordance with the Documentation. Any other use of the Software is strictly prohibited and will be deemed a breach of this End-User License Agreement. Without limiting the general nature of these restrictions, End-User Customer will not make the Software available for use by third parties on a **"time sharing," "application service provider,"** or **"service bureau"** basis or for any other similar commercial rental or sharing arrangement.
- 3.2 End-User Customer will not, and will not allow or enable any third party to: (i) reverse engineer, disassemble, peel components, decompile, reprogram or otherwise reduce the Software or any portion to a human perceptible form or otherwise attempt to recreate the source code; (ii) modify, adapt, create derivative works of, or merge the Software with other software; (iii) copy, reproduce, distribute, lend, or lease the Software or Documentation to any third party, grant any sublicense or other rights in the Software or Documentation to any third party, or take any action that would cause the Software or Documentation to be placed in the public domain; (iv) remove, or in any way alter or obscure, any copyright notice or other notice of Symbol Technologies' proprietary rights; (v) provide, copy, transmit, disclose, divulge or make the Software or Documentation available to, or permit the use of the Software by any third party or on any machine except as expressly authorized by this Agreement; or (vi) use, or permit the use of, the Software in a manner that would result in the production of a copy of the Software solely by activating a machine containing the Software. End-User Customer may make one copy of Software to be used solely for archival, back-up, or disaster recovery purposes; provided that End-User Customer may not operate that copy of the Software at the same time as the original Software is being

operated. End-User Customer may make as many copies of the Documentation as it may reasonably require for the internal use of the Software.

- 3.3 Unless otherwise authorized by Symbol Technologies in writing, End-User Customer will not, and will not enable or allow any third party to: (i) install a licensed copy of the Software on more than one unit of a Product; or (ii) copy onto or transfer Software installed in one unit of a Product onto another device.
- 3.4 If End-User Customer is purchasing Products that require a site license, End-User Customer must purchase a copy of the applicable Software for each site at which End-User Customer uses such Software. End-User Customer may make one additional copy for each computer owned or controlled by End-User Customer at each such site. End-User Customer may temporarily use the Software on portable or laptop computers at other sites. End-User Customer must provide a written list of all sites where End-User Customer uses or intends to use the Software.

#### **4. TRANSFERS**

- 4.1 End-User Customer will not transfer the Software or Documentation to any third party without Symbol Technologies' prior written consent. Symbol Technologies' consent may be withheld at its discretion and may be conditioned upon transferee paying all applicable license fees and agreeing to be bound by this End-User License Agreement.

#### **5. OWNERSHIP AND TITLE**

- 5.1 Symbol Technologies, its licensors, and its suppliers retain all of their proprietary rights in any form in and to the Software and Documentation, including, but not limited to, all rights in patents, patent applications, inventions, copyrights, trademarks, trade secrets, trade names, and other proprietary rights in or relating to the Software and Documentation. No rights are granted to End-User Customer under this Agreement by implication, estoppel or otherwise, except for those rights which are expressly granted to End-User Customer in this End-User License Agreement. All intellectual property developed, originated, or prepared by Symbol Technologies in connection with providing the Software, Products, Documentation or related services remains vested exclusively in Symbol Technologies, and End-User Customer will not have any shared development or other intellectual property rights.

## 6. CONFIDENTIALITY

- 6.1 End-User Customer acknowledges that the Software contains valuable proprietary information and trade secrets and that unauthorized dissemination, distribution, modification, reverse engineering, disassembly or other improper use of the Software will result in irreparable harm to Symbol Technologies for which monetary damages would be inadequate. Accordingly, End-User Customer will limit access to the Software to those of its employees and agents who need to use the Software for End-User Customer's internal business

## 7. MAINTENANCE AND SUPPORT

- 7.1 No maintenance or support is provided under this End-User License Agreement. Maintenance or support, if available, will be provided under a separate Software maintenance and support agreement.

## 8. LIMITED WARRANTY AND LIMITATION OF LIABILITY

- 8.1 Unless otherwise specified in the applicable warranty statement, the Documentation or in any other media at the time of shipment of the Software by Symbol Technologies, and for the warranty period specified therein, for the first 120 days after initial shipment of the Software to the End-User Customer, Symbol Technologies warrants that the Software, when installed and/or used properly, will be free from reproducible defects that materially vary from its published specifications. Symbol Technologies does not warrant that End-User Customer's use of the Software or the Products will be uninterrupted or error-free or that the Software or the Products will meet End-User Customer's particular requirements.
- 8.2 SYMBOL TECHNOLOGIES' TOTAL LIABILITY, AND END-USER CUSTOMER'S SOLE REMEDY, FOR ANY BREACH OF THIS WARRANTY WILL BE LIMITED TO, AT SYMBOL TECHNOLOGIES' OPTION, REPAIR OR REPLACEMENT OF THE SOFTWARE OR PAYMENT OF END-USER CUSTOMER'S ACTUAL DAMAGES UP TO THE AMOUNT PAID TO SYMBOL TECHNOLOGIES FOR THE SOFTWARE OR THE INDIVIDUAL PRODUCT IN WHICH THE SOFTWARE IS EMBEDDED OR FOR WHICH IT WAS PROVIDED. THIS WARRANTY EXTENDS ONLY TO THE FIRST END-USER CUSTOMER; SUBSEQUENT TRANSFEREES MUST ACCEPT THE SOFTWARE **"AS IS"** AND WITH NO WARRANTIES OF ANY KIND. SYMBOL TECHNOLOGIES DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE.
- 8.3 IN NO EVENT WILL SYMBOL TECHNOLOGIES BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF USE, TIME OR DATA, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS, OR SAVINGS, TO THE FULL EXTENT SUCH MAY

BE DISCLAIMED BY LAW, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE LIMITATIONS IN THIS PARAGRAPH WILL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.

## **9. TERM AND TERMINATION**

- 9.1 Any use of the Software, including but not limited to use on the Products, will constitute End-User Customer's agreement to this End-User License Agreement. End-User Customer's right to use the Software will continue for the life of the Products with which or for which the Software and Documentation have been provided by Symbol Technologies, unless End-User Customer breaches this End-User License Agreement, in which case this End-User License Agreement and End-User Customer's right to use the Software and Documentation may be terminated immediately by Symbol Technologies. In addition, if Symbol Technologies reasonably believes that End-User Customer intends to breach this End-User License Agreement Symbol Technologies may, by notice to End-User Customer, terminate End-User Customer's right to use the Software.
- 9.2 Upon termination, Symbol Technologies will be entitled to immediate injunctive relief without proving damages and, unless End-User Customer is a sovereign government entity, Symbol Technologies will have the right to repossess all copies of the Software in End-User Customer's possession. Within thirty (30) days after termination of End-User Customer's right to use the Software, End-User Customer must certify in writing to Symbol Technologies that all copies of such Software have been returned to Symbol Technologies or destroyed.

## **10. UNITED STATES GOVERNMENT LICENSING PROVISIONS**

- 10.1 This Section applies if End-User Customer is the United States Government or a United States Government agency. End-User Customer's use, duplication or disclosure of the Software and Documentation under Symbol Technologies' copyrights or trade secret rights is subject to the restrictions set forth in subparagraphs (c)(1) and (2) of the Commercial Computer Software-Restricted Rights clause at FAR 52.227-19 (JUNE 1987), if applicable, unless they are being provided to the Department of Defense. If the Software and Documentation are being provided to the Department of Defense, End-User Customer's use, duplication, or disclosure of the Software and Documentation is subject to the restricted rights set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 (OCT 1988), if applicable. The Software and Documentation may or may not include a Restricted Rights notice, or other notice referring to this End-User License Agreement. The provisions of this End-User License Agreement will continue to apply, but only to the extent that they are



consistent with the rights provided to the End-User Customer under the provisions of the FAR and DFARS mentioned above, as applicable to the particular procuring agency and procurement transaction.

## 11. GENERAL

- 11.1 Copyright Notices. The existence of a copyright notice on the Software will not be construed as an admission or presumption that public disclosure of the Software or any trade secrets associated with the Software has occurred.
- 11.2 Compliance with Laws. End-User Customer acknowledges that the Software is subject to the laws and regulations of the United States and End-User Customer will comply with all applicable laws and regulations, including export laws and regulations of the United States. End-User Customer will not, without the prior authorization of Symbol Technologies and the appropriate governmental authority of the United States, in any form export or re-export, sell or resell, ship or reship, or divert, through direct or indirect means, any item or technical data or direct or indirect products sold or otherwise furnished to any person within any territory for which the United States Government or any of its agencies at the time of the action, requires an export license or other governmental approval. Violation of this provision is a material breach of this Agreement.
- 11.3 Third Party Beneficiaries. This End-User License Agreement is entered into solely for the benefit of Symbol Technologies and End-User Customer. No third party has the right to make any claim or assert any right under this Agreement, and no third party is deemed a beneficiary of this End-User License Agreement. Notwithstanding the foregoing, any licensor or supplier of third party software included in the Software will be a direct and intended third party beneficiary of this End-User License Agreement.
- 11.4 Waiver. No waiver of a right or remedy of a Party will constitute a waiver of another right or remedy of that Party.
- 11.5 Assignments. Symbol Technologies may assign any of its rights or sub-contract any of its obligations under this End-User License Agreement or encumber or sell any of its rights in any Software, without prior notice to or consent of End-User Customer.
- 11.6 Causes of Action. End-User Customer must bring any action under this End-User License Agreement within one year after the cause of action arises except that warranty claims must be brought within the applicable warranty period.
- 11.7 Entire Agreement and Amendment. This End-User License Agreement contains the parties' entire agreement regarding End-User Customer's use of the Software and may be amended only in a writing signed by both parties, except that Symbol Technologies may modify this End-User License Agreement as necessary to comply with applicable laws and regulations.

- 11.8 Governing Law. This End-User License Agreement is governed by the laws of the the State of Delaware in the United States to the extent that they apply and otherwise by the internal substantive laws of the country to which the Software is shipped if End-User Customer is a sovereign governmental entity. The terms of the U.N. Convention on Contracts for the International Sale of Goods do not apply. In the event that the Uniform Computer information Transaction Act, any version of this Act, or a substantially similar law (collectively "**UCITA**") becomes applicable to a Party's performance under this Agreement, UCITA does not govern any aspect of this End-User License Agreement or any license granted under this End-User License Agreement, or any of the parties' rights or obligations under this End-User License Agreement. The governing law will be that in effect prior to the applicability of UCITA.
- 11.8 Dispute Resolution. Unless End-User Customer is a sovereign governmental entity, any dispute arising from or in connection with this End-User License Agreement shall be submitted to the sole and exclusive forum of the state and federal courts sitting in New Castle County, Delaware (the "**Delaware Courts**"), and each Party irrevocably submits to the jurisdiction of the Delaware Courts for the litigation of such disputes. Each Party hereby irrevocably waives, and agrees not to assert in any suit, action or proceeding brought in the Delaware Courts, any claim or defense that the Party is not subject to the jurisdiction of the Delaware Courts, that the Delaware Courts are an inconvenient forum, or that the Delaware Courts are an improper venue.

8 AP-7532 Access Point China ROHS Compliance

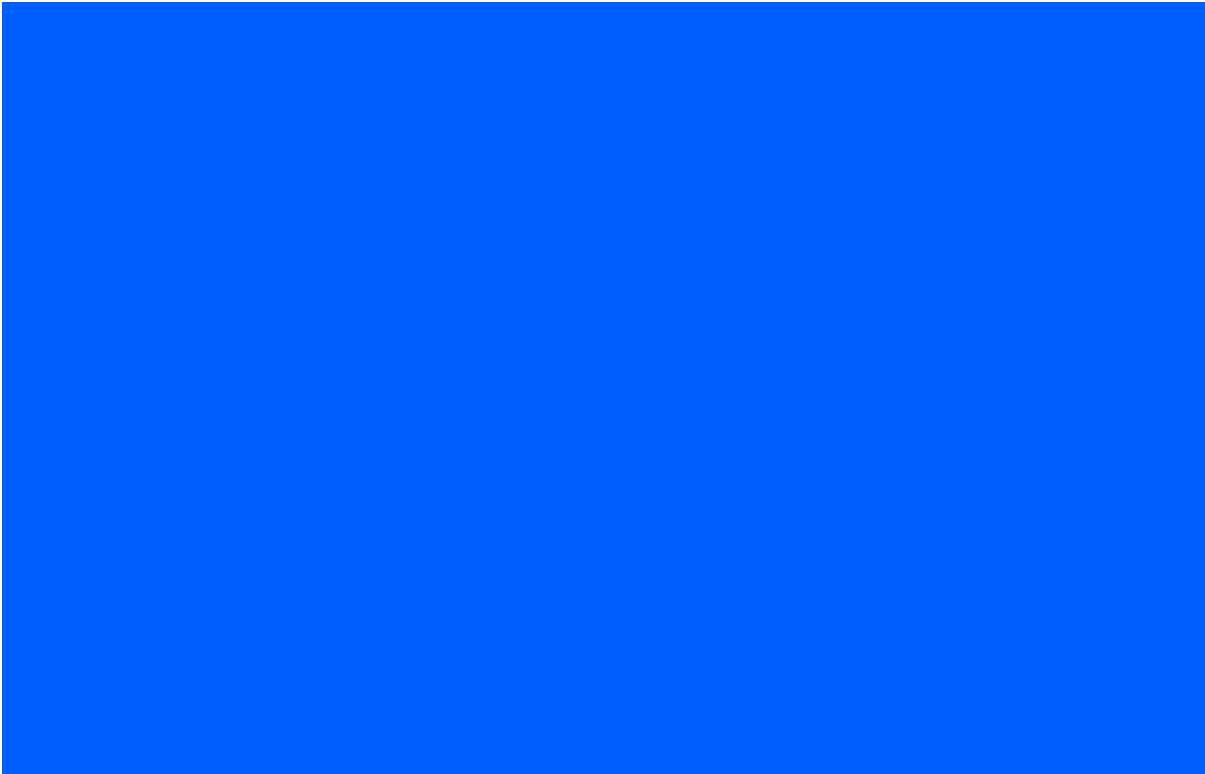
部件名称 (Parts)	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
金属部件 (Metal Parts)	X	○	○	○	○	○
电路模块 (Circuit Modules)	X	○	○	○	○	○
电缆及电缆组件 (Cables and Cable Assemblies)	X	○	○	○	○	○
塑料和聚合物部件 (Plastic and Polymeric Parts)	○	○	○	○	○	○
光学和光学组件 (Optics and Optical Components)	○	○	○	○	○	○
电池 (Batteries)	○	○	○	○	○	○

本表格依据 SJ/T 11364 的规定编制。

○: 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 AP-7532 and AP-7532I Access Points.



Zebra Technologies Corporation  
Lincolnshire, IL 60069 USA

Zebra and the Zebra head graphic are registered trademarks of ZIH Corp. The Symbol logo is a registered trademark of Symbol Technologies, Inc., a Zebra Technologies company.

© 2015 Symbol Technologies, Inc.



MN001378A01 Revision B April 2015

