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1 Introduction

The AP6532 Access Point links wireless 802.11a/b/g/n devices to the controller, enabling growth of your wireless network with a cost effective alternative to standard Access Points. The AP6532 Access Point provides two placement options: wall and ceiling. Wall mount slots fit onto two provided screws. Arrows on the case guide the placement of the screws. For placement above a suspended ceiling, a safety wire tie point on the case provides for a safety wire loop. The light pipe fits through a hole in the ceiling tile to provide a view of the unit’s status lights.

The AP6532 Access Point receives all power and transfers data through the same CAT-5 or better Ethernet cable. There is no additional power supply required. An 802.3af Ethernet switch or power injector is required.

1.1 Document Conventions

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

![NOTE](image)  Tips, hints, or special requirements that you should take note of.

![CAUTION](image)  Care is required. Disregarding a caution can result in data loss or equipment malfunction.

![WARNING!](image)  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 AP6532 Access Point.
- Remove jewelry and watches before installing this equipment.
- Verify that the unit is grounded before connecting it to the power source.
- Verify that 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 that cable lengths are within the maximum allowable distances for optimal signal transmission.

1.4 AP6532 Package Contents
The AP6532 Access Point is available in integrated antenna and external antenna models. The contents of the package differ between the integrated antenna and external antenna model.

1.4.1 External Antenna Model Package Contents
- AP6532 Access Point with external antenna connectors (Plenum Rated)
- Two wall mount screws
- Two wall anchors
- Light pipe
- Badge for light pipe
- AP6532 Installation Guide (This Guide)

1.4.2 Integrated Antenna Model Package Contents
- AP6532 Access Point with integrated antennas
- Two wall mount screws
- Two wall anchors
- AP6532 Installation Guide (This Guide)
1.5 Features

- One RJ-45 connector
- LED indicators
- Safety wire tie point
- Slots for wall mounting
- Clips for mounting on a suspended ceiling T-bar
- Lock port for Kensington® style Security Lock

The AP6532 Access Point has one RJ-45 connector supporting an 10/100/1000 Ethernet port and requires 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.

The AP6532 Access Point comes with dual radios both supporting 802.11a/b/g/n.

The Access Point contains runtime firmware which enables the unit to boot after a power up or watchdog reset. The runtime firmware on the Access Point and the firmware downloaded from the controller can be updated via the Ethernet interface from the Wireless Controller.
2 Hardware Installation

2.1 Installation Instructions
The AP6532 Access Point mounts either on a wall (with wide-shoulder screws) or on a suspended ceiling T-bar. This unit is not designed for mounting on a desk.

To prepare for the installation, perform the following:

1. Match the model number on the purchase order with the model numbers in the packing list and on the case of the device shipped.
2. Verify the contents of the box include the intended AP6532 Access Point and that the included hardware matches the package contents (see AP6532 Package Contents).

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP-6532-66030-US</td>
<td>Dual 802.11n radio AP6532. Plastic enclosure with internal antennas US version</td>
</tr>
<tr>
<td>AP-6532-66030-OUS</td>
<td>Dual 802.11n radio AP6532. Plastic enclosure with internal antennas US version for outdoor installation</td>
</tr>
<tr>
<td>AP-6532-66030-EU</td>
<td>Dual 802.11n radio AP6532. Plastic enclosure with internal antennas EU version</td>
</tr>
<tr>
<td>AP-6532-66030-WW</td>
<td>Dual 802.11n radio AP6532. Plastic enclosure with internal antennas World Wide version</td>
</tr>
<tr>
<td>AP-6532-66040-US</td>
<td>Dual 802.11n radio AP6532. Metal enclosure with external antennas US version</td>
</tr>
<tr>
<td>AP-6532-66040-OUS</td>
<td>Dual 802.11n radio AP6532. Metal enclosure with external antennas US version for outdoor installation</td>
</tr>
<tr>
<td>AP-6532-66040-EU</td>
<td>Dual 802.11n radio AP6532. Metal enclosure with external antennas EU version</td>
</tr>
<tr>
<td>AP-6532-66040-WW</td>
<td>Dual 802.11n radio AP6532. Metal enclosure with external antennas World Wide version</td>
</tr>
</tbody>
</table>

NOTE In the above part numbers, XX represents the 2-digit country code which specifies which country the model is designed for. A country code of “US” represents a United States model. A country code of “EU” represents a European Union model. A country code of “WW” represents a world wide model. The letter “O” preceding the 2-digit country code specifies the model is designed for outdoor installation.

3. Review site survey and network analysis reports to determine the location and mounting position for the AP6532 Access Point.
4. Connect a CAT-5 or better Ethernet cable to a compatible 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 AP6532 model Access Point, verify the following:

- Do not install the AP6532 in wet or dusty areas.
- Verify the environment has a continuous temperature range between 0° C to 50° C.

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.

Place the Access Point using the following guidelines:

- Install the Access Point at an ideal height of 10 feet from the ground.
- Orient the Access Point antennas vertically for best reception.

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.

2.4 Integrated Antenna Model Wall Mount Instructions
This mounting requires hanging the AP6532 Access Point along its width or length using the two slots on the bottom of the unit. The AP6532 can be mounted onto any plaster, wood, or cement wall surface using the provided wall anchors. The following illustration displays a lengthwise mount.

2.4.1 Wall Mount Hardware
- Two wide-shoulder Phillips pan head self-tapping screws
- Two wall anchors
- Security cable (optional)

---

**NOTE** In the event that the original mounting screws are lost, the following screws can be used instead: (ANSI Standard) #6-18 X 0.875in. Type A or AB Self-Tapping Screw, or (ANSI Standard Metric) M3.5 X 0.6 X 20mm Type D Self-Tapping Screw.
2.4.2 Wall Mount Procedure

1. Orient the case on the wall by its width or length.
2. Using the arrows on one edge of the case as guides, move the edge to the midline of the mounting area and mark points on the midline for the screws.
3. At each point, drill a hole in the wall, insert an anchor, screw into the anchor the wall mounting screw and stop when there is 1mm between the screw head and the wall.
4. If required, install and attach a security cable to the unit’s lock port.
5. Attach the Ethernet cable to the unit and to a controller with an 802.3af-compatible power source.
6. Place the middle of each of the case’s mount slots over the screw heads.
7. Slide the case down along the mounting surface to hang the mount slots on the screw heads.
8. Verify the unit has power by observing that the LEDs are lit or flashing.

NOTE When pre-drilling a hole the recommended hole size is 2.8mm (0.11in.) if the screws are going directly into the wall and 6mm (0.23in.) if the provided wall anchors are being used.
2.5 Integrated Antenna Model Suspended Ceiling T-Bar Mount Instructions

Ceiling mount requires holding the AP6532 Access Point up against a T-bar of a suspended ceiling grid and twisting the case onto the T-bar.

2.5.1 Suspended Ceiling Mount Procedure

1. If required, install and attach a security cable to the unit’s lock port.
2. Plug the Ethernet cable into the unit and to a controller with an 802.3af compatible power source.
3. Align the bottom of the T-bar with the back of the case.
4. Orient the case by its length, and the length of the T-bar.
5. Rotate the case 45 degrees clockwise, or about 10 o’clock.
6. Push the back of the case onto the bottom of the T-bar.
7. Rotate the case 45 degrees counter-clockwise. The clips click as they fasten to the T-bar.
8. Verify the unit has power by observing the LEDs.
2.6 External Antenna Model Wall Mount Instructions
Wall mounting requires hanging the AP6532 Access Point along its width or length using the pair of slots on the bottom of the unit. The AP6532 can be mounted onto any plaster, wood, or cement wall surface using the provided wall anchors. The following illustration shows a lengthwise mount.

2.6.1 Wall Mount Hardware
- Two wide-shoulder Phillips pan head self-tapping screws
- Two wall anchors
- Safety wire (recommended) and security cable (optional)

**NOTE** In the event the original mounting screws are lost, the following screws can be used: (ANSI Standard) #6-18 X 0.875in. Type A or AB Self-Tapping Screw, or (ANSI Standard Metric) M3.5 X 0.6 X 20mm Type D Self-Tapping Screw.

2.6.2 Wall Mount Procedure

1. Orient the case on the wall by its width or length.
2. Using the arrows on one edge of the case as guides, move the edge to the midline of the mounting area and mark points on the midline for the screws.
3. At each point, drill a hole in the wall, insert an anchor, screw into the anchor the wall mounting screw and stop when there is 1mm between the screw head and the wall.


4. If required, loop a safety wire, between 1.5mm (.06in.) and 2.5mm (.10in.) in diameter, around the tie post and secure the loop.
5. If required, install and attach a security cable to the unit’s lock port.
6. Place the large corner of each of the case’s mount slots over the screw heads.
7. Slide the case down along the mounting surface to hang the mount slots on the screw heads.
8. Attach appropriate antennas to the connectors.
9. Attach the Ethernet cable to the unit and to a controller with an 802.3af compatible power source.
10. Verify the unit has power by observing that the LEDs are lit or flashing.
2.7 **External Antenna Model Suspended Ceiling Tile (Plenum) Mount Instructions**

Ceiling mount requires placing the AP6532 Access Point above a suspended ceiling and installing the provided light pipe for viewing the status lights of the unit.

| NOTE | Notes or warnings about suspended ceiling mounts apply to all installations where the unit is placed on suspended ceiling tile. The case has a safety wire tie point for a standard safety wire. |
| CAUTION | Do not mount the AP6532 Access Point directly to any suspended ceiling tile with a thickness less than 12.7mm (0.5in.) or a suspended ceiling tile with an unsupported span greater than 660mm (26in.). Fit the AP6532 Access Point with a safety wire suitable for the specific installation. The safety wire should be a standard ceiling suspension cable or equivalent steel wire between 1.59mm (.062in.) and 2.5mm (.10in.) in diameter. |

This placement requires installation of the provided light pipe for viewing the status lights of the unit.

### 2.7.1 **Suspended Ceiling Mount Hardware**

- Light pipe
- Badge for light pipe
- Safety wire (recommended) and security cable (optional)
2.7.2 Ceiling Mount Procedure

1. If possible, remove the ceiling tile from its frame and place it, finished side down, on a work surface.
2. If required, install a safety wire, between 1.5mm (.06in.) and 2.5mm (.10in.) in diameter, in the ceiling space.
3. If required, install and attach a security cable to the unit’s lock port.
4. Mark a point on the upper or unfinished side of the tile.
5. Push the light pipe through the tile at the mark and remove the light pipe. If necessary, use a drill to make a hole in the tile.
6. Attach appropriate antennas to the connectors.
7. Snap the clips of the light pipe into the bottom of the case.
8. Fit the light pipe into hole in the tile from its unfinished side.
9. Attach any safety wire to the safety wire tie point or security cable to the unit’s lock port.
10. Bring the tile into the ceiling space.
11. Plug the Ethernet cable into the unit and to a controller with an 802.3af compatible power source.
12. Verify the unit has power by observing the LEDs.
13. Place the ceiling tile back in its frame.
14. Snap the badge onto the light pipe from the finished side of the tile.
2.8 AP6532 External Antenna Model Antenna Options

Two antenna suites are available for AP6532 External Antenna models. One antenna suite supporting the 2.4 GHz band and another antenna suite supporting the 5 GHz band. 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>
</tr>
</thead>
<tbody>
<tr>
<td>ML-2452-APA2-01</td>
<td>Dipole Antenna</td>
</tr>
<tr>
<td>ML-2499-SD3-01R</td>
<td>Patch Antenna</td>
</tr>
<tr>
<td>ML-2499-HPA3-01R</td>
<td>Omni Antenna</td>
</tr>
<tr>
<td>ML-2452-PNA5-01R</td>
<td>Panel Antenna</td>
</tr>
<tr>
<td>ML-2452-PTA3M3-036</td>
<td>Omni Antenna</td>
</tr>
</tbody>
</table>

The 5 GHz antenna suite includes the following models:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Antenna Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML-2452-APA2-01</td>
<td>Dipole Antenna</td>
</tr>
<tr>
<td>ML-5299-PTA1-01R</td>
<td>Patch Antenna</td>
</tr>
<tr>
<td>ML-5299-HPA1-01R</td>
<td>Omni Antenna</td>
</tr>
<tr>
<td>ML-2452-PNA5-01R</td>
<td>Panel Antenna</td>
</tr>
<tr>
<td>ML-2452-PTA3M3-036</td>
<td>Omni Antenna</td>
</tr>
</tbody>
</table>

For up-to-date information on supported antennas and antenna specifications, please see the *Enterprise Wireless LAN Antenna Specification Guide* available on the Support website at [www.zebra.com/support](http://www.zebra.com/support).
2.9 LED Indicators
Both Integrated Antenna and External Antenna models have LED activity indicators on the front of the case. With the External Antenna models mounted above a ceiling, LEDs are at the center of an oval badge on the ceiling; a light pipe enables viewing the back LEDs through the ceiling tile.

The LEDs provide a status display indicating error conditions, transmission, and network activity for the 5 GHz 802.11a/n (amber) radio or the 2.4 GHz 802.11b/g/n (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>System Booting</td>
<td>Solid On (During start up only)</td>
<td>Solid On (During start up only)</td>
</tr>
<tr>
<td>Radio Shutdown</td>
<td>Off</td>
<td>Off</td>
</tr>
<tr>
<td>Administratively</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or LEDs Disabled</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Not Configured</td>
<td>Solid On</td>
<td>Solid On</td>
</tr>
<tr>
<td>or Country-code not set</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or WLAN not mapped to radio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Locate AP Mode</td>
<td>Off</td>
<td>Blinking</td>
</tr>
</tbody>
</table>
3  Basic Access Point Configuration

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

1. Attach an Ethernet cable from the Access Point to a controller with an 802.3af compatible power source or use the PWRS-14000-148R power supply to supply power to the Access Point (once fully cabled). If your host system is a DHCP server, an IP address is automatically assigned to the Access Point and can be used for device connection. However, if a DHCP server is not available, you’ll need to derive the IP address from the Access Point MAC address. Using this method, the last two bytes of the MAC address become the last two octets of the IP 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:
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 simply the configuration process.

- **Advanced Setup**
  - With this selection, you may configure the access point’s LAN, WAN, Radio Mapping, Radius Server, VLAN, etc.
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.

<table>
<thead>
<tr>
<th>Navigation Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔ Introduction</td>
</tr>
<tr>
<td>Access Point Settings</td>
</tr>
<tr>
<td>Network Topology</td>
</tr>
<tr>
<td>LAN Configuration</td>
</tr>
<tr>
<td>Wireless LAN Setup</td>
</tr>
<tr>
<td>Summary and Commit</td>
</tr>
</tbody>
</table>

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 simply 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 *Access Point System Reference Guide* to familiarize yourself with the features 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**

   Choose a Country Code

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 model. These connected Access Points must be the same model 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, use the Access Point’s UI 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).

   ![Router Mode Diagram]

   - **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 APs supporting clients on both the 2.4 and 5GHz radio bands.

   ![Bridge Mode Diagram]

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 (Y/LAN 1) which will be used by wireless clients.

- **Use DHCP**

- **Static IP Address/Subnet**

- **DHCP Server**
  - Use on-board DHCP server to assign IP addresses to wireless clients
  - Range: 192.168.0.1 - 192.168.0.200
  - Default Gateway: 192.168.0.1

- **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.

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.

<table>
<thead>
<tr>
<th>Username</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>
21. Select **Add User** to display the dialog to enter user information to add to the RADIUS server user database.

![Add User dialog](image)

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.

No user intervention or additional settings are required. It's 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.

29. 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 Specifications

4.1 AP6532 External Antenna Model Electrical Characteristics
An AP6532 External Antenna model Access Point has the following electrical characteristics:

| Operating Current & Voltage | 180ma-270ma @ 48VDC using Power over Ethernet |

4.2 AP6532 External Antenna Model Physical Characteristics
An AP6532 External Antenna model Access Point has the following physical characteristics:

| Dimensions | 8.50 in. Depth x 5.5 in. Width x 1.5 in. Height |
| Housing | Metal |
| Weight | 2.5 lbs / 1.13 kg |
| Operating Temperature | 32°F to 122°F/0°C to 50°C |
| Storage Temperature | -40°F to 158°F/-40°C to 70°C |
| Operating Humidity | 5 to 95% Relative Humidity non-condensing |
| Storage Humidity | 85% Relative Humidity non-condensing |
| Operating Altitude (max) | 8,000 ft @ 28C |
| Storage Altitude (max) | 30,000 ft @ 12C |
| Electrostatic Discharge | +/-15kV Air and +/-8kV Contact @ 50% Relative Humidity |
4.3 AP6532 Integrated Antenna Model Electrical Characteristics
An AP6532 Integrated model Access Point has the following electrical characteristics:

Operating Current & Voltage
180ma-270ma @ 48VDC using Power over Ethernet

4.4 AP6532 Integrated Antenna Model Physical Characteristics
An AP6532 Integrated Antenna model Access Point has the following physical characteristics:

Dimensions
9.50 in. Depth x 7.5 in. Width x 1.9 in. Height
24.13 cm Depth x 19.05 cm Width x 4.83 cm Height

Housing
Plastic

Weight
2.0 lbs / 0.91 kg

Operating Temperature
32°F to 122°F/0°C to 50°C

Storage Temperature
-40°F to 158°F/-40°C to 70°C

Operating Humidity
5 to 95% Relative Humidity non-condensing

Storage Humidity
85% Relative Humidity non-condensing

Operating Altitude (max)
8,000 ft @ 28C

Storage Altitude (max)
30,000 ft @ 12C

Electrostatic Discharge
+/-15kV Air and +/-8kV Contact @ 50% Relative Humidity
4.5 Radio Characteristics
The AP6532 model Access Points have the following radio characteristics:

Operating Channels
- All channels from 4920 MHz to 5825 MHz except channel 52-64
- Channels 1-13 (2412-2472 MHz)
- Channel 14 (2484 MHz) Japan only
- Actual operating frequencies depend on regulatory approval for the country of use.

Data Rates Supported
- 802.11b: 1, 2, 5.5, 11 Mbps
- 802.11g: 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 0-15 up to 300 Mbps

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

Network Standards
- 802.11a, 802.11b, 802.11g, 802.3, 802.11n (Draft 2.0)

Maximum Available Transmit Power
- Maximum available conducted transmit power per chain:
  - 2.4 GHz: 21 dBm
- Maximum available conducted transmit power all chains:
  - 2.4 GHz: 24 dBm
- Maximum available conducted transmit power per chain:
  - 5 GHz: 19 dBm
- Maximum available conducted transmit power all chains:
  - 5 GHz: 22 dBm

Transmit Power Adjustment
- 1 dB increments

Antenna Configuration
- 2x3 MIMO (transmit on two and receive on all three antennas)
5  Regulatory Information

5.1  Regulatory Information

This guide applies to Model Number AP-6532

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 Website: 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 Access Points must be professionally installed and configured so that 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: For 2.4GHz or 5GHz Products: Europe includes, Austria, Belgium, Bulgaria, Czech Republic, Cyprus, Denmark, Estonia, FinlFor 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.

5.2.2  Frequency of Operation – FCC and IC

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.

**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 bands 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

### 5.3 Health and Safety Recommendations

#### 5.3.1 Warnings for 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.

#### 5.3.4 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.
5.3.5 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.

5.5 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 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.

Radiation Exposure Statement:
This equipment complies with IC radiation exposure limits set forth foa na uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm 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 20 cm 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 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
This device can be powered from a 802.3af compliant power source which is certified by the appropriate agencies.

5.9 Radio Frequency Interference Requirements—FCC
Note: 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.

For RLAN Devices:
The use of 5 GHz RLAN’s, for use in the US, have the following restrictions:

- Notched Band 5.60 – 5.65 GHz
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.

5.10.1  **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.

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.

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

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that permitted for successful communication.

This device has been designed to operate with the antennas listed in section 13 of Enterprise Wireless LAN Antenna Specification Guide (72E-133063-01). Antennas not included in this list or having a greater gain are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

5.11  **CE Marking and European Economic Area (EEA)**

The use of 2.4 GHz 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 is restricted to 2.4 – 2.454 GHz.
- 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](http://www.zebra.com/doc).
5.13 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.

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.

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.

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.


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.


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 στο Διαδίκτυο.
5.14 TURKISH WEEE Statement of Compliance
EEE Yönetmeliğine Uygundur
5.15 Japan (VCCI) - Voluntary Control Council for Interference
Class B ITE

This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

5.16 Korea Warning Statement for Class B ITE

<table>
<thead>
<tr>
<th>기종 별</th>
<th>사용 자 안내 문</th>
</tr>
</thead>
<tbody>
<tr>
<td>B 급 기기 (가정용 방송통신기기)</td>
<td>이 기기는 가정용 (B 급)으로 전자파적합등록을 한 기기로서 주로 가정에서 사용하는 것을 목적으로 하여, 모든 지역에서 사용할 수 있습니다.</td>
</tr>
<tr>
<td>Class B (Broadcasting Communication Device for Home Use)</td>
<td>This device obtained EMC registration mainly for home use (Class B) and may be used in all areas.</td>
</tr>
</tbody>
</table>

5.17 Other Countries

Australia

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

Brazil

Regulatory declarations for AP-650 - BRAZIL

Note: The certification mark applied to the AP-650 is for Restrict Radiation Equipment. This equipment operates on a secondary basis and does not have the right for protection against harmful interference from other users including same equipment types. Also this equipment must not cause interference to systems operating on primary basis.

For more information consult the website [http://www.anatel.gov.br](http://www.anatel.gov.br)

Declarações Regulamentares para AP-650 - Brasil

Nota: "A marca de certificação se aplica ao Transceptor, modelo AP-650. 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: [http://www.anatel.gov.br](http://www.anatel.gov.br)
Chile

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

“This device complies with the Resolution Not 403 of 2008, of the Undersecretary of telecommunications, relating to electromagnetic radiation.”

China

Quality Certificate in Chinese when the factory has ISO 9001 certification.

Mexico

Restrict Frequency Range to: 2.450 – 2.4835 GHz.

South Korea

For a radio equipment using 2400~2483.5MHz or 5725~5825MHz, the following two expression should be displayed:

```
당해 무선설비는 운용 중 전파혼신 가능성이 있음

당해 무선설비는 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없습니다
```
## Taiwan

<table>
<thead>
<tr>
<th>臺灣</th>
</tr>
</thead>
<tbody>
<tr>
<td>低功率電波輻射性電機管理辦法</td>
</tr>
</tbody>
</table>

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，且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 赫頻帶內操作之無線資訊傳輸設備，限於室內使用。
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.

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

**Manuals**
Documentation is available at:

www.zebra.com/support
## 7 AP6532 Series ROHS Compliance

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

本表格依据SJ/T 11364 的规定编制。
0: 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 AP6532 model Access Points.