



Unpacking Your Access Point

- [Package Contents, on page 1](#)
- [Unpacking the Access Point, on page 1](#)
- [Optional Tools and Hardware from Cisco, on page 2](#)
- [Cisco Orderable Accessories, on page 3](#)
- [Preinstallation Checks and Installation Guidelines, on page 4](#)
- [Typical Access Point Installation Components, on page 4](#)

Package Contents

Each AP package contains the following items:

- One C9124AXI or C9124AXD or C9124AXE Outdoor AP
- Ground lug and screws with lock washers
- CAT 5e RJ45 Ethernet port termination plug



Note The provided CAT 5e gland must be used with CAT 5e cable only. When using CAT 6/6A cable you need to use AIR-ACC-CAT6= kit which is an orderable accessory from Cisco.

- Weatherization tape and anticorrosion sealant
- Cisco product documentation and pointer card

Unpacking the Access Point

To unpack the AP, follow these steps:

Procedure

- Step 1** Unpack and remove the AP and the accessory kit from the shipping box.

Step 2 Return the packing material to the shipping container and save it for future use.

Step 3 Verify that you have received following items:

- The access point
- Accessory kit (Ethernet port termination plug, ground lug kit)
- (Optional) Mounting brackets only if you opted for these when ordering the AP.

If any item is missing or damaged, contact your Cisco representative or reseller for instructions.

Optional Tools and Hardware from Cisco

Depending on what you ordered, the following optional equipment may be part of your shipment:

- [Cisco Orderable Accessories, on page 3](#)
- AP paintable cover C9124-CVR1= Spare only
- Spare part kit containing extra cable glands, power connector, ground lug, and so on. (AIR-ACC-KIT1=)

Additional Tools and Hardware Required for Installation

You must independently procure the following tools and materials, which might be required during various stages of installing the AP:

- Ground lug crimping tool (Panduit CT-720 with CD-720-1 die)
- #2 Phillips Screwdriver
- 5–mm Hex driver or Allen wrench
- Adjustable wrench or 28–mm box wrench
- 6-AWG copper ground wire
- 10–mm open-end or box wrench
- 13–mm box-end wrench or socket set
- 16–mm box-end wrench or socket set
- Large flat or Phillips screwdriver (for SFP port plug)
- 2.54–mm (0.10 inch) hex crimp tool for DC power connector
- Shielded outdoor-rated Ethernet (CAT5e) cable of 0.14 to 0.26 inch (3.5 to 6.5 mm) diameter or CAT6/6A cable of 0.2 to 0.35 inch (5 to 9 mm) diameter.
- Ethernet RJ-45 connector and installation tool
- Shielded outdoor-rated DC power cable with 18–AWG 2 conductor, 0.21 to 0.35 inch (5.5 to 9.0mm) outer diameter

- Ground rod, as required by local regulations

Cisco Orderable Accessories

Order the following accessories separately from Cisco:

- AP-mounting brackets to mount the C9124AXI or C9124AXD AP.

Mounting Brackets	Description
AIR-MNT-VERT1=	Vertical mount to a wall or 2 to 5 inch (51 to 127 mm) diameter pole
AIR-MNT-ART1=	Articulating mount to a wall or 2 to 5 inch (51 to 127 mm) diameter pole
AIR-MNT-VERT2=	Vertical mount with DC adapter to a wall or 2 to 5 inch (51 to 127 mm) diameter pole
AIR-MNT-HORZ1=	Horizontal mount to a wall or 2 to 5 inch (51 to 127 mm) diameter pole
AIR-ACC-PS-MNT1	Optional for AIR-MNT-HORZ1= kit to mount DC power supply
AIR-MNT-STRAND1=	Cable strand horizontal mount

- Accessory kits

Accessory Kit	Description
AIR-SFP-KIT1=	Gland kit for SFP port (Qty: 5)
C9124-CVR1=	AP paintable cover
AIR-ACC-KIT1=	This kit contains the following items: <ul style="list-style-type: none"> • CAT 5e RJ45 Ethernet port plug and gland assembly (Qty: 5) • RJ45 port dust caps (Qty: 2) • Ground lug (Qty: 1) • DC plug (Qty 1)
AIR-ACC245LA-N=	Lightning Arrestor kit
AIR-ACC-CAT6=	CAT 6/6A Ethernet connector and cable gland assembly. Qty: 5

- Power injectors when PoE is not available.

Power Supply	Description
AIR-PWRINJ-60RGD1=	60W rated outdoor power injector, with North America AC plug
AIR-PWRINJ-60RGD2=	60W rated outdoor power injector, global version without AC plug

Power Supply	Description
AIR-PWRINJ6=	30W rated single-port PoE injector
AIR-PWRINJ7=	65W rated single-port PoE injector

Preinstallation Checks and Installation Guidelines

Because the AP is a radio device, it is susceptible to common causes of interference that can reduce throughput and range. Follow these basic guidelines to ensure the best possible performance:

- Thoroughly review the information provided in [Installation Overview](#).
- Install the AP in an area where structures, trees, or hills do not obstruct radio signals to and from the AP.
- We recommend that you install the AP no higher than 40 feet to support the wireless clients on the ground. Mounting all the APs at the same height provides the best throughput.
- If the SFP port is not in use, the port plug should remain in place and must be tightened to 12.5 lbf-in torque. If the DC, console, or PoE ports are not in use, the port cap should remain in place.



Note To calculate path loss and determine how far apart to install the APs, consult an RF planning expert.

Before you begin the installation process, ensure the following:

- Perform a site survey. For more information, see [Performing Site Surveys](#).
- Your network infrastructure devices must be operational and properly configured.
- Your controllers must be connected to switch trunk ports.
- Your switch must be configured with untagged access ports for connecting your APs.
- A DHCP server with Option 43 configured must be reachable by your AP, or manually configure the controller information in the AP. For information about configuring DHCP Option 43, see <http://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-lan-wlan/97066-dhcp-option-43-00.html>
- Become familiar with the AP installation components, see [Typical Access Point Installation Components, on page 4](#).
- Familiarize yourself with the best practices to install Cisco outdoor wireless access points video series, see

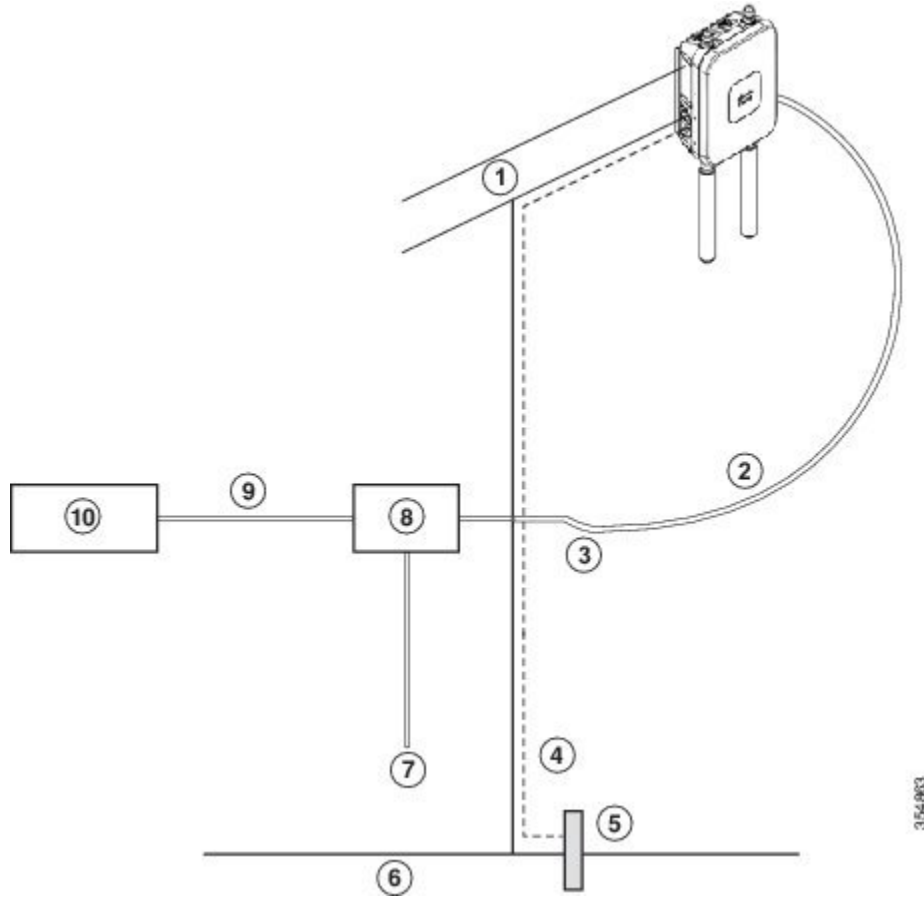
https://www.cisco.com/c/en/us/td/docs/wireless/access_point/outdoor/video/ap-best-practices.html

Typical Access Point Installation Components

The Cisco Catalyst 9124AX Series Outdoor Access Point is designed to be installed in an outdoor environment, such as the exterior roof overhang of a tall building or a streetlight pole. Carefully review the [Figure 1](#):

Components in a Typical Access Point Installation, on page 5 to become familiar with the system components, connectors, indicators, cables, system interconnection, and grounding.

Figure 1: Components in a Typical Access Point Installation



1	Building roof overhang	6	Ground
2	Shielded outdoor-rated Ethernet (CAT5e or better) cable ¹	7	Power cord
3	Water drip loop	8	Power injector
4	6-AWG copper grounding wire ¹	9	Shielded Ethernet (CAT5e or better) cable ¹
5	Ground rod ¹	10	Controller (through a switch)

¹ Independently sourced by the user.

