

Installation Guide

BE5000 Dual-Band PoE 2.5G Insight
Managed WiFi 7 Outdoor Access Point
Model WBE708Y



Package contents

- NETGEAR Outdoor Access Point (AP) model WBE708Y
- Mounting plate and screws
- Four wall anchors and four screws
- Grounding screw with attached spring washer and flat washer
- Serrated washer
- Two pole-mounting straps
- Four external antennas
- Documentation download flyer

NOTE: The access point does not provide a power connector, nor does it require a power adapter. You power up the access point by connecting an Ethernet cable to a PoE+ switch or PoE+ injector.

NOTE: You can use only the external antennas provided with the product. If you do not use the antennas, leave waterproof caps on the SMA connectors.



WARNING: If you use a PoE+ switch that is located indoors, you must use a PoE+ Ethernet surge protector on the cable from the switch to the WBE708Y access point located outdoors.



CAUTION: Terms of Use

This device must be professionally installed in a vertical position. It is the installer's responsibility to follow local country regulations including operations within legal frequency channels, output power, and DFS requirements. The vendor, reseller, or distributor is not responsible for illegal wireless operations. See the device's Terms and Conditions for more details.

Overview

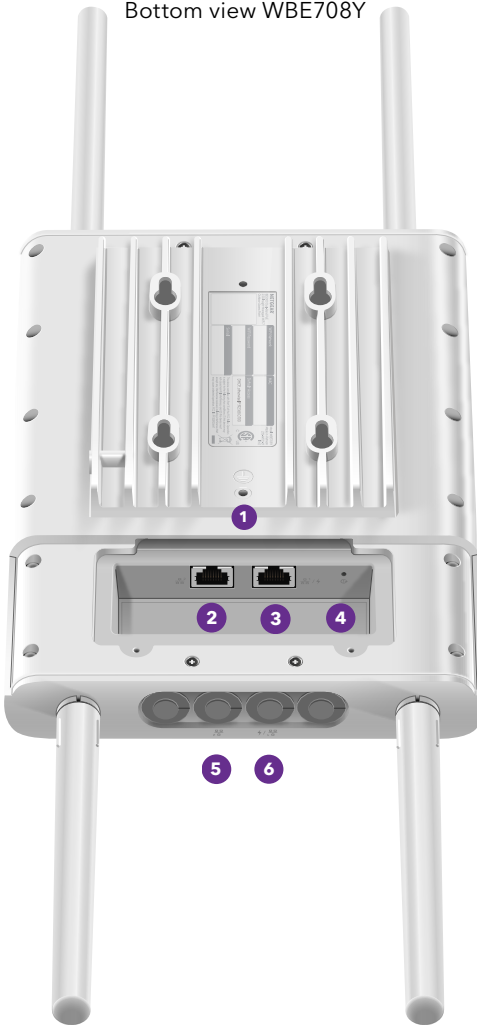
Rear view WBE708Y



Right side view WBE708Y



Bottom view WBE708Y



- 1 Grounding screw placement
- 2 2.5G LAN2 port
- 3 2.5G LAN1/PoE+ port
- 4 Reset button
- 5 Cable gasket
- 6 Cable gasket for PoE+

1. Connect to power and the Internet

Power up the WBE708Y access point (AP) by connecting the LAN1/PoE+ port to a PoE+ switch or PoE+ injector that supplies 802.3at (PoE+) power. The LAN1/PoE+ port is on the bottom behind the port cover.

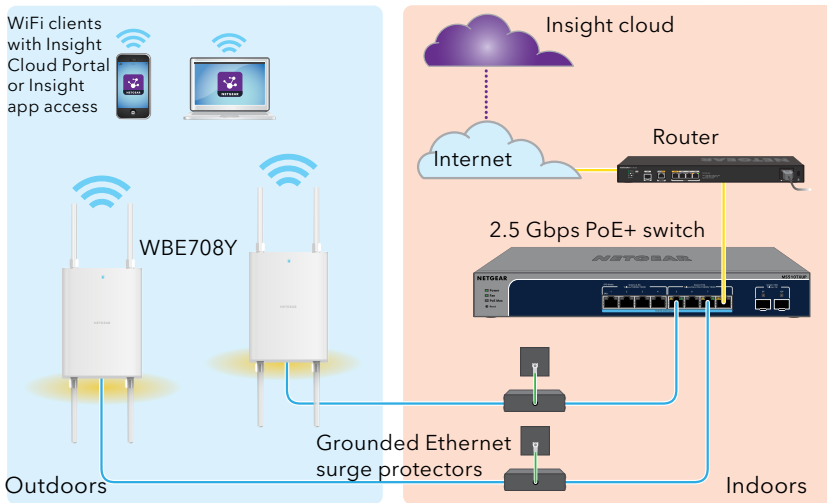
NOTE: If needed, obtain a PoE+ Ethernet surge protector. If you use a PoE+ switch that is located indoors, you must use a PoE+ Ethernet surge protector (not supplied) on the cable from the switch to the AP located outdoors. The following figure shows such a setup.

NOTE: Do not use a flat Ethernet cable with the AP. The cable gasket only seals the device with a round cable. Consider using an outdoor-rated cable or shielded cable.

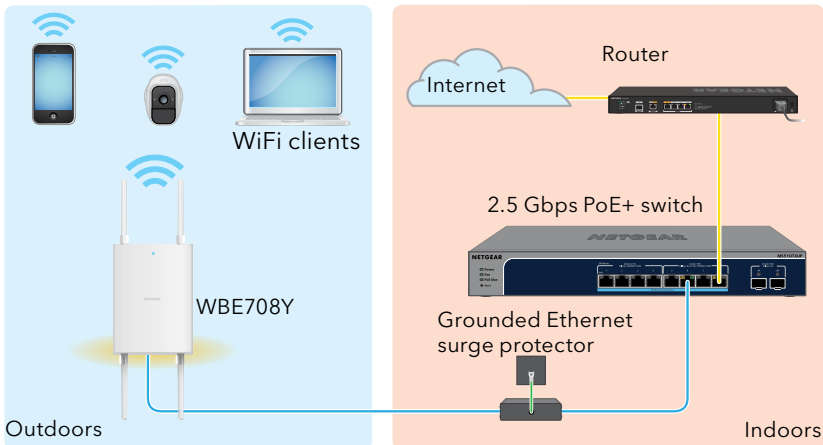
1. Unscrew the two thumb screws on the rear port cover of the AP.
2. Carefully lift the port cover to remove it. The LAN1/PoE+ port is now accessible.
3. Remove the cable gasket from the PoE+ cable port (item 6 in the previous figure).
4. Remove the center cable plug from the cable gasket. Do not throw the plug away.
5. Route your Ethernet cable through the dedicated LAN1/PoE+ cable port and connect it to the LAN1/PoE+ port.

6. Wrap the cable gasket firmly into place around the Ethernet cable, with the flange of the gasket toward the outside of the AP.
7. Slide the cable gasket into the cable gasket port.
Make sure that the flange is pressed against the bottom of the cable port.
8. Connect the LAN1/PoE+ port to a PoE+ switch or injector.
Make sure that the switch has Internet connectivity.
9. Reinstall the port cover on the AP and tighten both thumb screws.

Sample connections for a NETGEAR Insight setup



Sample connections for a standalone setup



If connected to 2.5 Gbps equipment, the WBE708Y LAN1/PoE+ port supports Ethernet speeds up to 2.5 Gbps within your LAN. The preceding figures show a NETGEAR MS510TXUP switch, which supports speeds of 2.5 Gbps and higher, as well as PoE+. If your Internet connection, modem, router, and switch support a speed of 2.5 Gbps, the AP's Internet connection also functions at 2.5 Gbps. Otherwise, the Internet connection functions at 1 Gbps, which is a common speed.

NOTE: The AP receives an IP address from a DHCP server (or a router that functions as a DHCP server) in your network. If your network does not include a DHCP server, the AP uses its default IP address: 192.168.0.100.

LED behavior for WBE708Y

Normal behavior	
	Off: No power is supplied to the AP.
	Solid amber, temporarily: The AP is starting or the Reset button was pressed.
	Solid magenta: The AP is initializing.
	Blinking magenta, slowly: The AP continues to initialize.
	Blinking amber fast, temporarily: The AP is updating firmware or is being reset to factory default settings.
	Solid blue: The AP started up, functions in Insight mode, and is connected to the Insight cloud-based management platform.
	Solid green: The AP started up and functions either as a standalone access point or as an Insight discovered access point that is not connected to the Insight cloud-based management platform.
	Blinking blue: At least one WiFi client is connected to the AP. The speed of blinking depends on the transmit and receive data rate of connected clients.
	Blinking multicolor: The AP is functioning as a node in an Insight Instant Mesh WiFi network and the mesh setup is in progress.
Problem indication	
	Blinking green, continuously: The PoE power that the AP is receiving is not at the required PoE+ (802.3at) level.
	Blinking amber slowly, continuously: The AP did not receive an IP address from a DHCP server.
	Solid amber, continuously: A boot error occurred or the AP is malfunctioning.

NOTE: Other LED behavior exists, including LED behavior for an Insight Instant Mesh network. For more information about the LED behavior, see the user manual, which you can download by visiting netgear.com/support/enterprise.

2. Discover and manage the AP

Your new AP supports the NETGEAR Insight cloud-based management platform for remote management. Insight offers automated monitoring and notifications, plus add-on services like Insight Instant Mesh that are not available in standalone mode. Alternatively, you can manage the AP locally in standalone mode through the device UI.

For information about creating an Insight Premium account or Insight Pro account, visit kb.netgear.com/000044343. Your my.NETGEAR.com account is also your Insight account, so your credentials let you log in to the Insight Cloud Portal or the Insight app. For more information, visit the following pages:

- netgear.com/business/services/insight
- kb.netgear.com/000061848

To manage the AP, use one of the methods in this table:

A.	Insight Cloud Portal remote management	NETGEAR Insight Cloud Portal See A. Use the NETGEAR Insight Cloud Portal to manage the AP
B.	Insight app remote management	NETGEAR Insight app See B. Use the NETGEAR Insight app to manage the AP
C.	Standalone local management	Web browser See C. Use a web browser to manage the AP in standalone mode

 **CAUTION:** If you add the AP to Insight before connecting it to power for the first time, wait 10 minutes for Insight to replace the default login credentials with the Insight network location credentials. However, if you want to manage the AP as a standalone device, do not add the AP to Insight before connecting it to power for the first time. You can always add the AP to Insight after initial configuration.

A. Use the NETGEAR Insight Cloud Portal to manage the AP

The Insight Cloud Portal provides access to a complete set of remote management tools, including the topology view. For Insight Pro users, it offers a quick way to add multiple APs at the same time.

1. Make sure that the AP is connected to the Internet.
2. On a computer or tablet, visit insight.netgear.com.
3. Enter the email address and password for your NETGEAR account and click the **NETGEAR Sign In** button.
4. If you are an Insight Pro user, select the organization to which you want to add the AP.
5. Add a new network location where you want to add the AP, or select an existing network location.

The device admin password that you set for the network location replaces the existing admin password on all devices that you add to the network location.

6. Click the **+ (Add Device)** button.
NOTE: If you are an Insight Pro user, you can add either a single device or multiple Insight-managed devices by uploading a device list in a CSV file.
7. In the Add New Device pop-up page, enter the AP's serial number and MAC address, then click the **Go** button.
8. Optionally change the device name of the AP, then click the **Next** button.

A page displays a confirmation that setup is in progress.

NOTE: If the AP is online but Insight does not detect the AP, the firewall at the physical location where the AP is located might prevent communication with the Insight cloud. In that situation, add port and DNS entries for outbound access to the firewall. For more information, see kb.netgear.com/000062467.

The AP automatically updates to the latest Insight firmware and Insight location configuration. This might take up to 10 minutes, during which time the AP restarts.

The LED lights solid blue when the AP is connected to Insight. The AP is now an Insight managed device that is connected to the Insight cloud-based management platform.

B. Use the NETGEAR Insight app to manage the AP

The Insight app provides a convenient way to add new devices, receive real-time notifications, and manage your network from anywhere.

1. Connect your mobile device to the AP's setup SSID (WiFi network name) using one of these methods:
 - **Scan the QR code:** Scan the QR code on the AP label to connect to the setup SSID.
 - **Connect manually:** The setup SSID is on the AP label and is shown in the format NETGEARxxxxxx-SETUP, where xxxxxx are the last six digits of the AP's MAC address. The default WiFi passphrase is **sharedsecret**.
2. Open the NETGEAR Insight app.
3. Enter the email address and password for your account and tap **LOG IN**.
4. Select a network location, or add a new network location where you want to add the AP by tapping the **Next button** and then tapping **OK**.

The device admin password that you set for the network location replaces the existing admin password on all devices that you add to the network location.

In most situations, Insight detects the AP automatically, which can take several minutes.

5. To add the AP to your network location, do one of the following:
 - If the AP is automatically detected and listed in the Insight Manageable Devices section, tap the icon for the AP, and then tap **ADD DEVICE**.
 - If the AP is not automatically detected, or you prefer to use another method to add the AP, tap the **+** icon in the top bar, and do one of the following:
 - Tap the **SCAN BARCODE OR QR CODE** button, and then scan the AP's code.
 - Tap the **Enter Serial Number and MAC Address** link, and then manually enter the AP's serial number and MAC address.
6. If prompted, name the AP and tap **Next**.

The AP automatically updates to the latest Insight firmware and Insight location configuration. This might take up to 10 minutes, during which time the AP restarts.

The LED lights solid blue when the AP is connected to Insight. The AP is now an Insight managed device that is connected to the Insight cloud-based management platform.

C. Use a web browser to manage the AP in standalone mode

1. Connect your computer or mobile device to the AP's setup SSID (WiFi network name) using one of the following methods:
 - **Scan the QR code:** Scan the QR code on the AP label to connect to the setup SSID.
 - **Connect manually:** The setup SSID is on the AP label and is shown in the format NETGEARxxxxxx-SETUP, where xxxxxx are the last six digits of the AP's MAC address. The default WiFi passphrase is **sharedsecret**.
2. On your computer, launch a web browser and in the address bar enter **aplogin.net**.

Your browser might display a security warning because of the self-signed certificate on the AP, which is expected behavior. You can proceed, or add an exception for the security warning. For more information, see kb.netgear.com/000062980.

3. Enter the AP user name and default password.
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.
4. Select the **Web-browser (Local)** radio button.

The Day Zero Easy Setup page displays.

5. Follow the instructions on the Day Zero Easy Setup page, and then click the **Apply** button.

We recommend that you record the new admin password, SSID (WiFi network name), WiFi passphrase, and IP address and store them in a safe place.

A message displays to indicate that your settings are being applied.

6. If the WiFi connection of your computer or mobile device is terminated, reconnect to the AP using the new SSID and WiFi passphrase that you set on the Day Zero Easy Setup page.
7. When the login page displays, you can log in using your new admin password to configure the AP.

For information about configuring the AP, see the user manual, which you can download by visiting netgear.com/support/download.

We recommend that you register your AP with NETGEAR.

8. To register your AP with NETGEAR, from a computer or mobile device that is connected to the Internet, visit my.NETGEAR.com to log in or create a new account, then click the **Register New Product** button to register your AP.

A confirmation email is sent to your NETGEAR account email address.

Installation options

You can mount the AP to a wall or a pole.

NOTE: Mount the AP in a vertical position.

NOTE: Before you mount the AP at a permanent location outdoors, we recommend that you configure the AP for your network environment and test your setup.

 **CAUTION:** Avoid direct sunlight on the cable gaskets.

Ground the AP

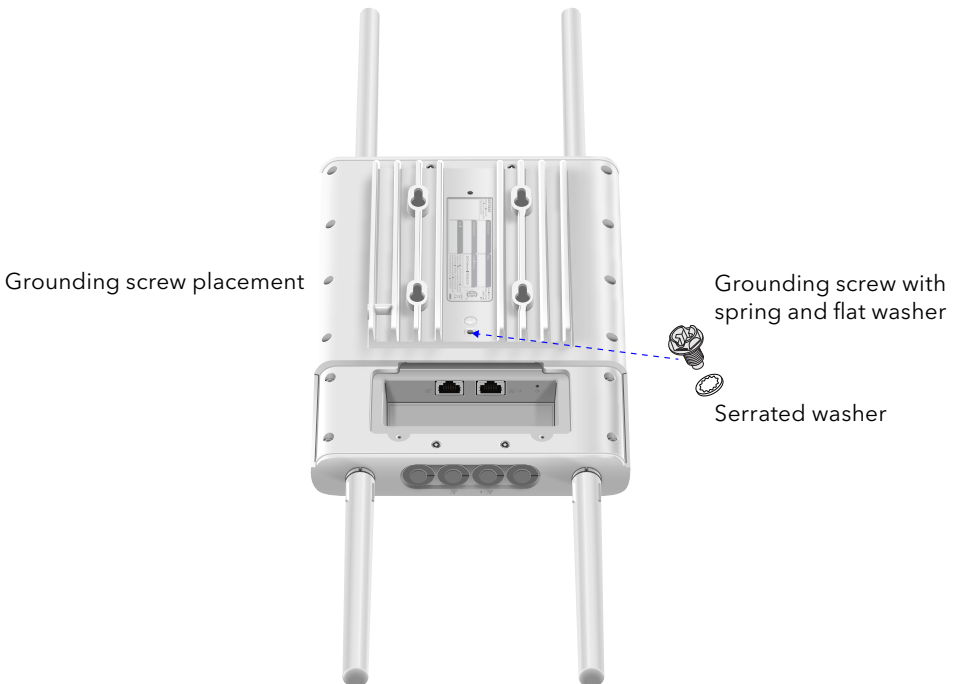
 **WARNING:** Failure to ground the AP can result in damage to the device and connected equipment from electrostatic discharge (ESD) and electrical surges.

Before mounting the AP, connect a protective earth (PE) grounding conductor.

IMPORTANT: Make sure that the grounding point is clean and provides solid metal-to-metal contact with the access point enclosure.

NOTE: NETGEAR does not provide a copper ground wire.

1. Connect a 10-14 AWG solid copper ground wire to a reliable earth ground.
2. Strip the insulation from the other end of the copper ground wire.
3. Form the exposed conductor into a clockwise loop around the grounding screw shank.
4. Position the wire loop between the flat washer and the serrated washer. Make sure that the serrated washer contacts the AP enclosure.
5. Secure the grounding screw to the AP and tighten with a No. 1 Phillips screwdriver.



Mount to a wall

NOTE: The provided screws and anchors are for drywall installation only. For concrete, masonry, or other wall types, use the appropriate wall anchors and screws.

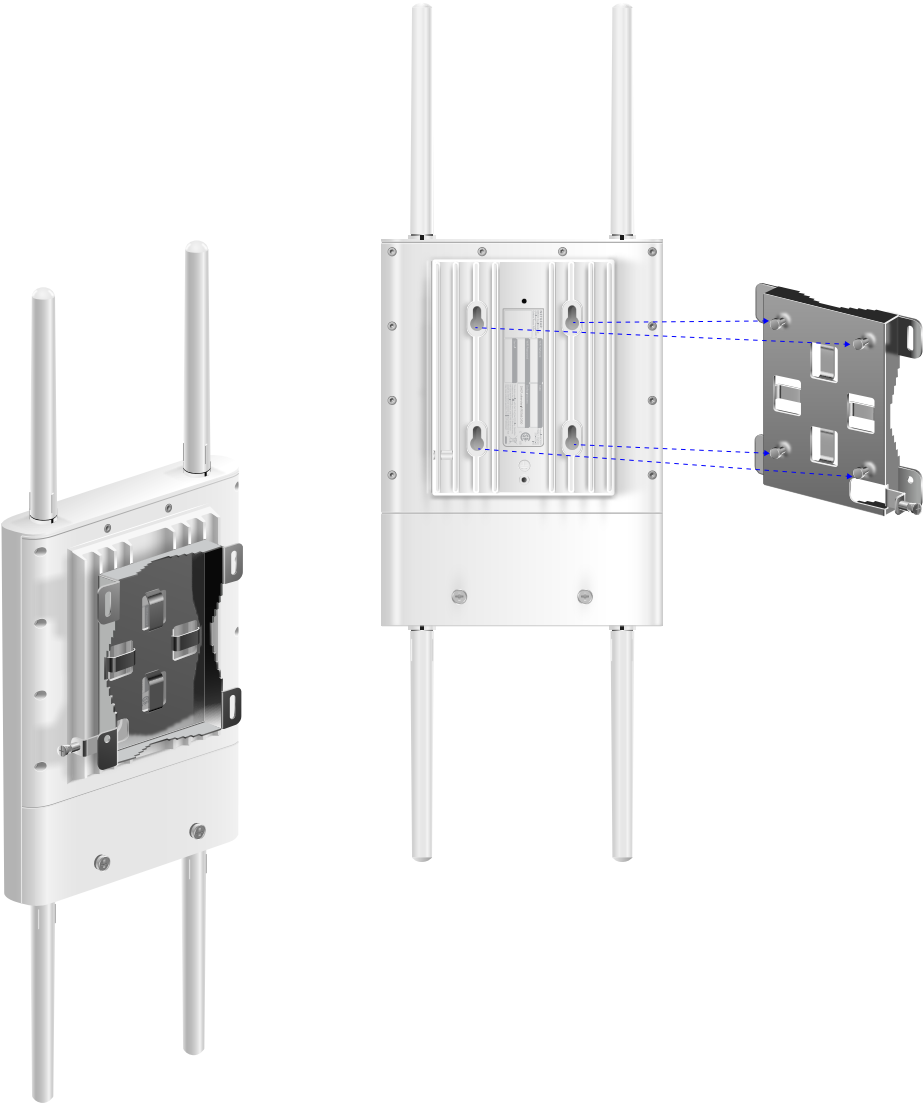
 **CAUTION:** Verify that the mounting surface is structurally sound and free of concealed utilities before drilling.

Required equipment: Mounting plate, wall anchors, and screws.

1. Place the mounting plate against the wall, position the mount lock at the bottom, and use it as a template to mark the four mounting hole locations.
2. Drill four pilot holes at the marked locations for the screws using a 6 mm drill bit.
3. Insert the wall anchors into the drilled holes by hand or using a soft mallet.
4. Align the mounting plate to the four wall anchor holes on the wall.
5. Secure the mounting plate to the wall using the supplied screws. Tighten the screws with a No. 1 Phillips screwdriver.
6. Align the keyhole slots on the back of the AP with the mounting studs on the mounting plate.



- 7. Place the AP onto the mounting plate and slide it downward until it is fully seated.
- 8. Secure the AP by tightening the mount lock on the mounting plate.



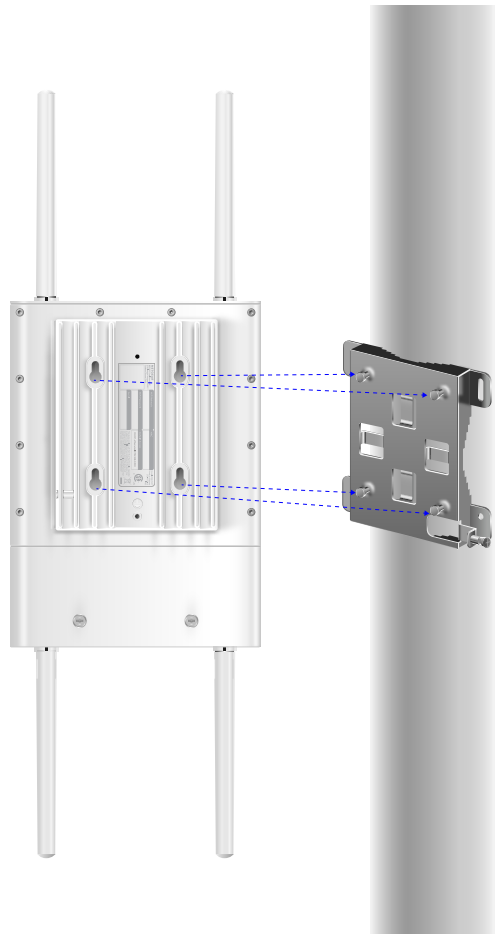
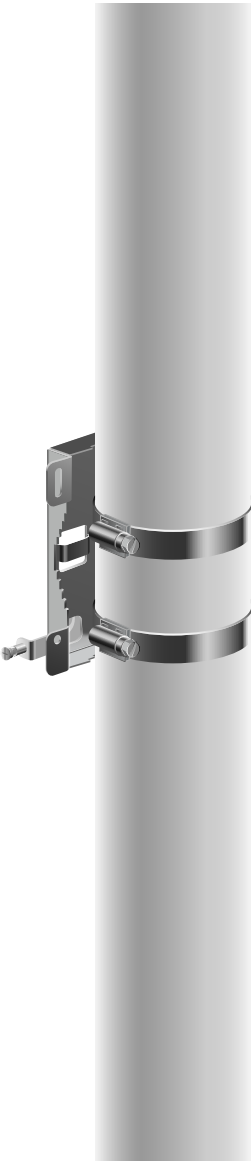
Mount to a pole

Required equipment: Mounting plate and two pole-mounting straps.

NOTE: The two pole-mounting straps provided in the package contents are designed for a pole with a maximum diameter of 2.5 in. (63.5 mm).

NOTE: Position the mounting plate as shown in the figure below so that the mount lock faces downward and the Ethernet cable exit sits at the bottom of the AP after installation.

1. Open the supplied pole-mounting straps and mounting plate.
2. Insert the straps through the openings on the back of the mounting plate.
3. Wrap the mounting plate and the open straps around the pole.
4. Close the straps, but do not fully tighten them.
5. Adjust the mounting plate to the permanent position.
6. Tighten the strap screws to secure the mounting plate to the pole.



7. Align the keyhole slots on the back of the AP with the mounting studs on the mounting plate.

8. Place the AP onto the mounting plate and slide it downward until it is fully seated.
9. Secure the AP by tightening the mount lock on the mounting plate.



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Regulatory and Legal

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(If this product is sold in Canada, you can access this document in Canadian French at netgear.com/support/enterprise.)

For safety and regulatory compliance information including the EU Declaration of Conformity, visit netgear.com/about/regulatory/.

See the regulatory compliance document before connecting the power supply.

For NETGEAR's Privacy Policy, visit netgear.com/about/privacy-policy.

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