



Bridge AP Start Guide

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About This Guide

Omada offers scenario-based access points for different kinds of environments. This document provides startup guidance for the Indoor/Outdoor Wireless Bridge (hereinafter referred to as the Bridge AP), including a detailed hardware overview and quick references for hardware installation and software configuration.

Related Documentation

The Quick Installation Guide can be found in the product packaging and on the Product Support page: <https://support.omadanetworks.com/product/>

The latest Regulatory Compliance document, Omada Access Point User Guide, and Omada Controller User Guide can be found on the Documents page: <https://support.omadanetworks.com/document/>

More Resources

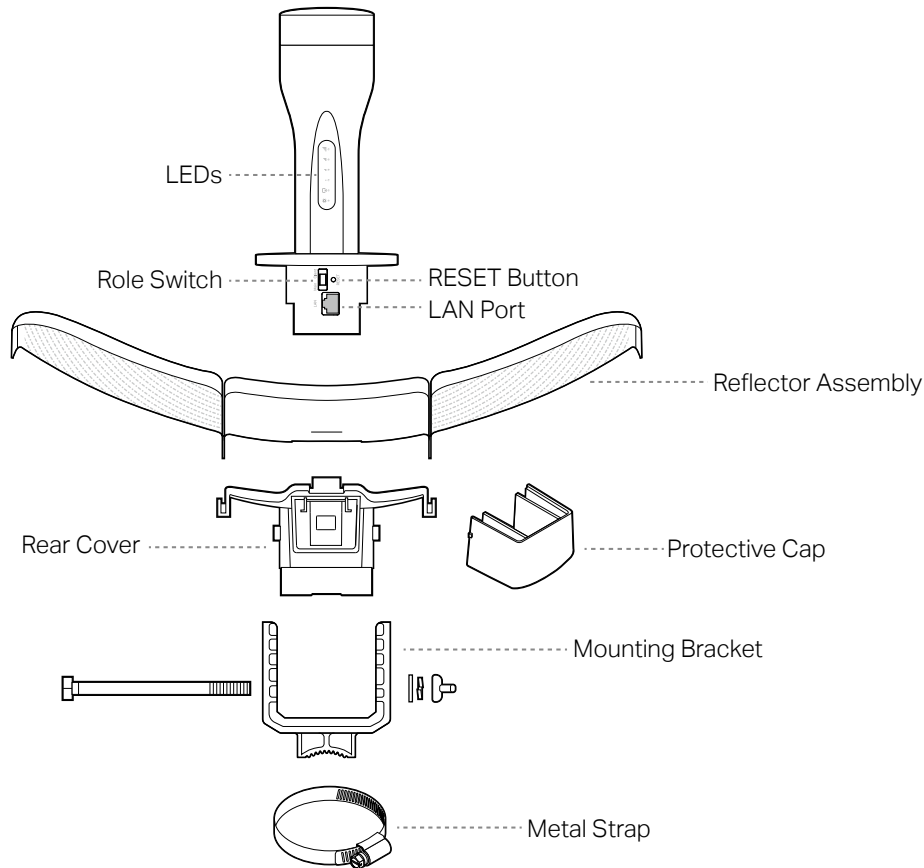
Main Site	https://www.omadanetworks.com/
Video Center	https://support.omadanetworks.com/video/
Documents	https://support.omadanetworks.com/document/
Product Support	https://support.omadanetworks.com/product/
Technical Support	https://support.omadanetworks.com/contact-support/

For technical support, the latest software, and management app, visit <https://support.omadanetworks.com/>.

Hardware Overview

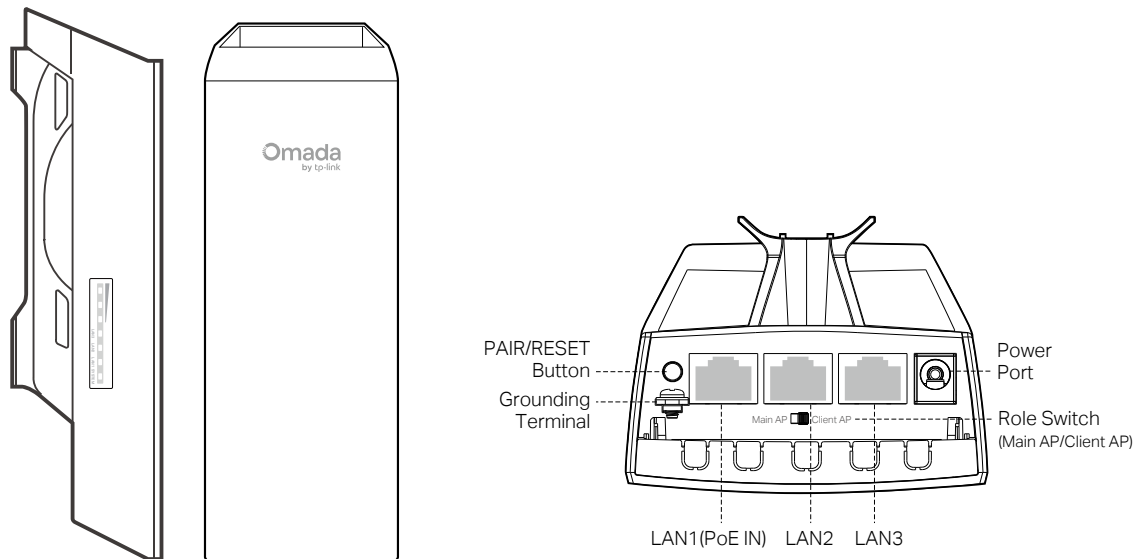
This chapter provides a detailed hardware overview of the Bridge AP.

- **Beam Bridge 5 UR**



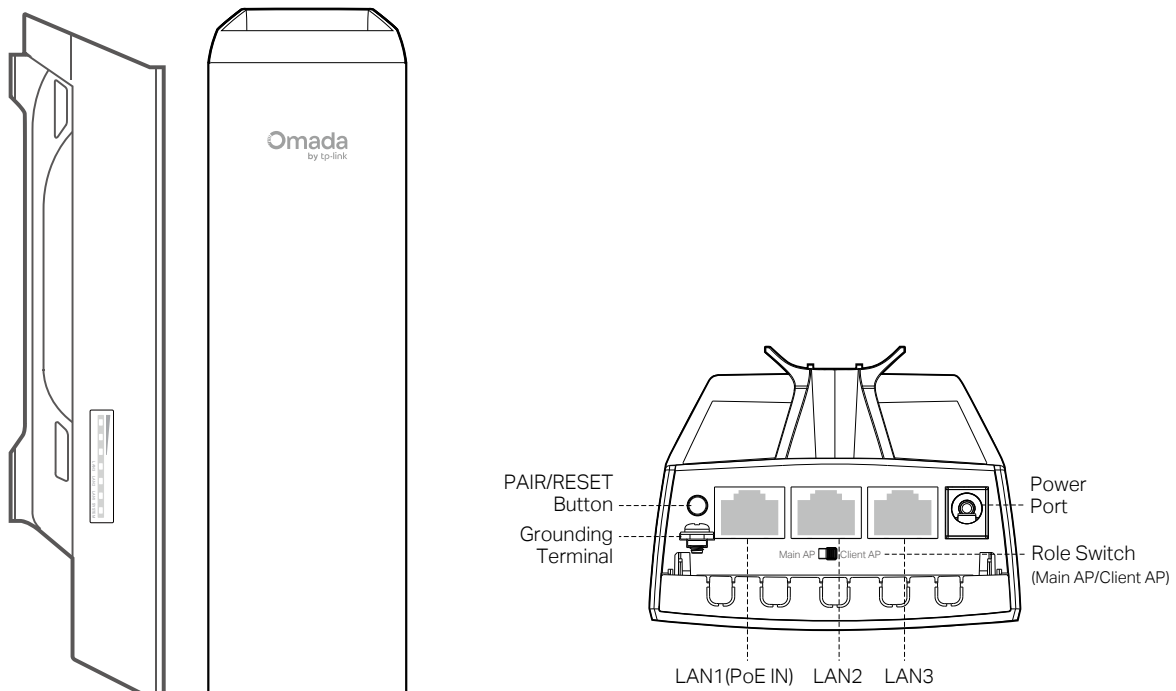
- **EAP100-Bridge/EAP211-Bridge**

Note: Earlier firmware versions require a firmware upgrade to support pairing with the PAIR/RESET button.

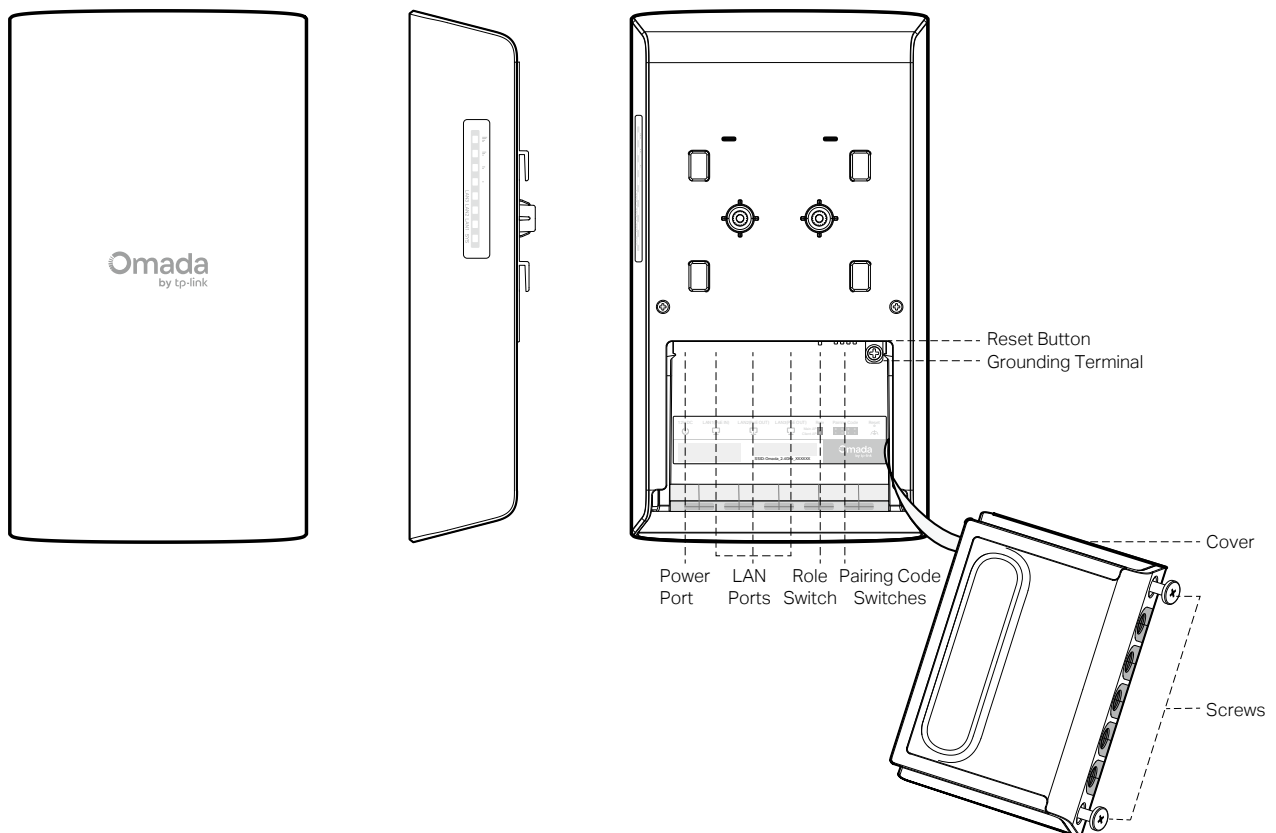


• EAP115-Bridge/EAP215-Bridge

Note: Earlier firmware versions require a firmware upgrade to support pairing with the PAIR/RESET button.



• Flex Bridge 5



LED Explanation

The Bridge AP is equipped with LEDs that indicate the status of the device. LED behavior follows the same rules, though the number and placement of LEDs may vary by model.

LED	Indication
System LED	On: Working normally/Initializing Off: Working abnormally/Power off/LED is turned off. Flash: • Flashes twice: Initialization is complete. • Flashes quickly: The AP is resetting, or the Omada Controller is locating the device.¹ • Flashes once per second: The AP is upgrading. • On with periodic off: The AP is in the isolated state.
LAN LED	On: The port is connected but not active. Flash: The port is connected and active. Off: The port is not connected.
Signal LEDs	On: • Working as Main AP: All LEDs remain solid during normal operation. • Working as Client AP: More lit LEDs indicate better wireless signal strength. Blinking: Pairing² Off: No signal

¹ When the Locate feature is activated on the Omada Controller, the LED will flash quickly for 10 minutes to help you locate and identify the device. You can disable this feature manually to stop the device from flashing.

² Only for models with the Pair button. The Main AP's Signal LEDs will blink for 2 minutes when pairing, while the Client AP's Signal LEDs will blink during pairing and turn solid once successful.

Ports & Buttons

The ports and buttons vary by model.

• Beam Bridge 5 UR

Item	Description
Role Switch (Main/Client)	Distinguishes whether the AP works as the Main AP or Client AP. If needed, you can toggle left or right to change the AP's role.
LAN Port	Connect to a passive PoE adapter or a PSE device (such as a PoE switch) for both data transmission and power supply.

RESET Button	(Only for certain models) Press and hold for about 5 seconds to reset the AP to its factory default settings.
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• EAP100-Bridge/EAP211-Bridge/EAP115-Bridge/EAP215-Bridge

Item	Description
PAIR/RESET Button	Pair: Press this button on the Main AP and the Client AP to establish a network connection. Reset: Press and hold for about 5 seconds to reset the AP to its factory default settings. Note: Earlier firmware versions require a firmware upgrade to support pairing with the Pair/Reset button.
Role Switch (Main/Client)	Distinguishes whether the AP works as the Main AP or Client AP. If needed, you can toggle left or right to change the AP's role.
LAN1 (PoE IN) Port	Connect to a PSE (Power Sourcing Equipment), such as a PoE switch, for both data transmission and power supply.
LAN2/LAN3 Port	Connect to a client device for data transmission.
Power Port	Connect to a wall outlet for DC power input.
Grounding Terminal	Connect to grounding facilities for lightning and ESD protection.

• Flex Bridge 5

Item	Description
Power Port	Connect to a wall outlet for DC power input.
LAN1 (PoE IN) Port	Connect to a PSE (Power Sourcing Equipment), such as a PoE switch, for both data transmission and power supply.
LAN2/LAN3 (PoE OUT) Port	Connect to a client device to transmit data and supply PoE power. Note: The PoE Out function is only active when the device is receiving power via the provided adapter or a PSE device that supplies standard 802.3at PoE or higher power.
Role Switch (Main/Client)	Toggle to set the AP's role: Main AP or Client AP.

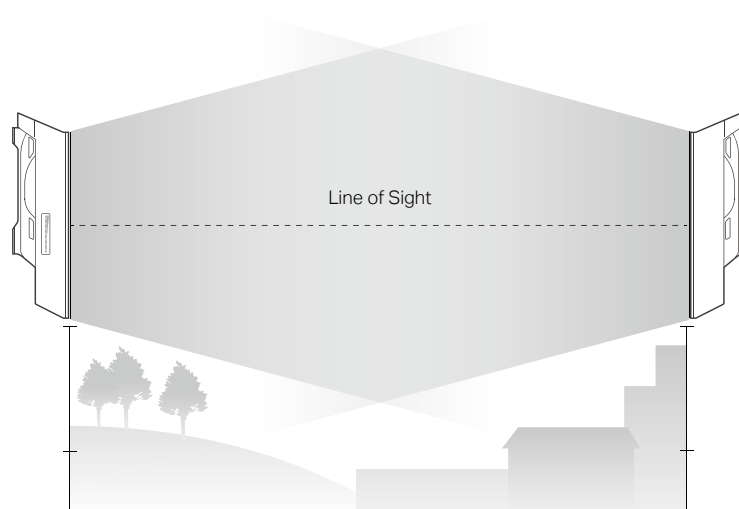
Pairing Code Switches	Toggle to set the AP's pairing code. Client APs set with the same pairing code as the Main AP can form a bridge network. Note: The Main AP's pairing window will time out 2 hours after the first Client AP connects to it. To start the pairing window again, refer to the user manual at https://support.omadanetworks.com/document/.
Reset Button	Press and hold for about 5 seconds to reset the AP to its factory default settings.
Grounding Terminal	Connect to grounding facilities for lightning and ESD protection.

Hardware Installation

Mounting Height

Ensure a clear line of sight between the wireless devices for optimal performance. An elevated location is recommended as obstacles like trees, buildings, and large steel structures will weaken the wireless signal.

Note: The figure below uses EAP211-Bridge for demonstration. Other types of Bridge APs can be used in a similar manner.



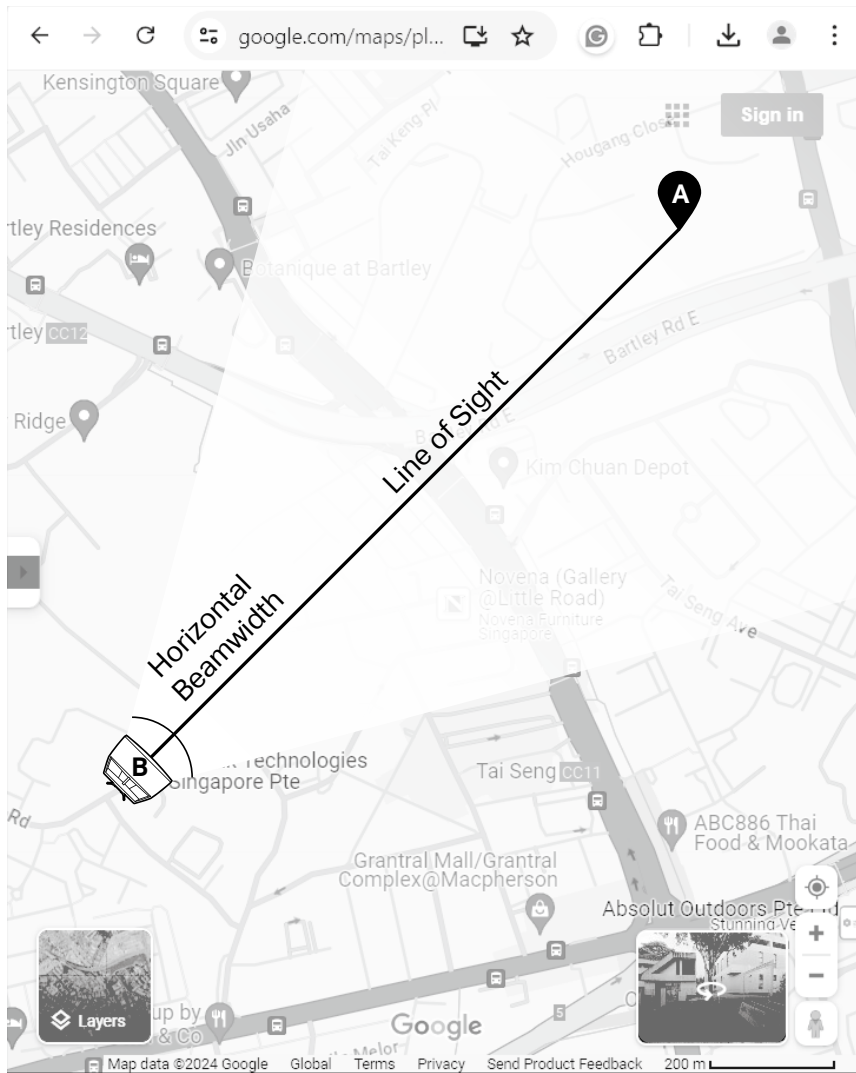
Side View

Orientation

Install the AP with the front facing the target area. For antenna and horizontal beamwidth details, refer to the product datasheet on our official website.

For long-range AP models, you can orient the APs with the assistance of Google Maps, GPS, and some landmarks.

Note: The figure below uses EAP211-Bridge for demonstration. Other types of Bridge APs can be used in a similar manner.



Installation

Bridge APs can be mounted to outdoor poles and serve as network bridges, ideal for long-distance wireless transmissions.

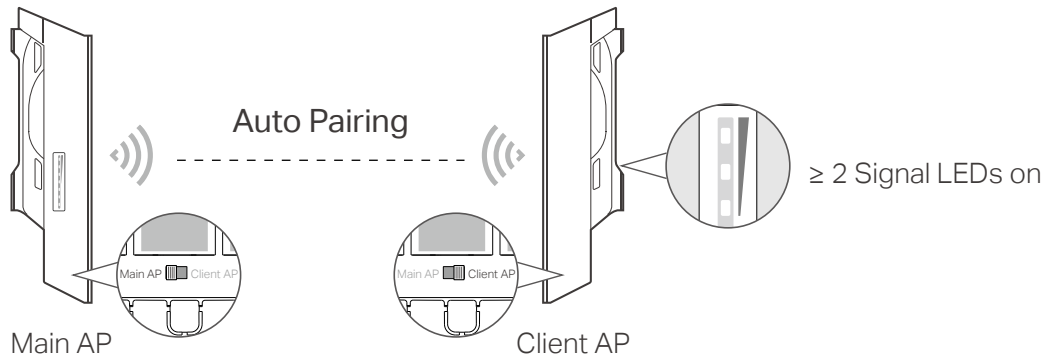
This chapter provides quick references for hardware installation. You can follow the Quick Installation Guide to install the Bridge AP using the accessories in the product packaging.

The Quick Installation Guide can be found in the product packaging and on the Support page of your model at <https://www.omadanetworks.com/business-networking/omada-wifi-wireless-bridge/>.

Auto Pairing

The Main AP and Client AP in the same kit will automatically form a bridge network after powering on.

Note: The figure below uses EAP211-Bridge for demonstration. Other types of Bridge kits can be used in a similar manner.



Notes:

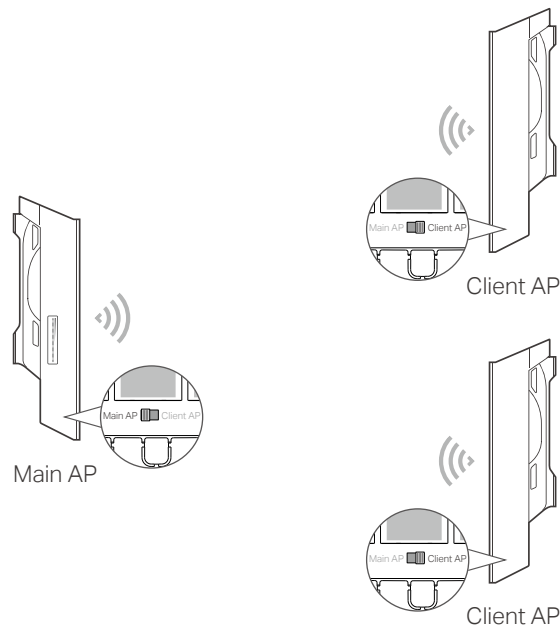
- Check the role switch to ensure you have correctly connected the Main AP and Client AP in the network. You can toggle the role switch to change the AP's role if needed.
- The default SSID on the product is only for device access and management. If you need an SSID to access the internet and service networks, refer to the [Network Management](#) section to set up the AP.
- In a network without a DHCP Server, the Main AP will use the DHCP fallback IP address 192.168.0.254.

Pairing with the Pair Button

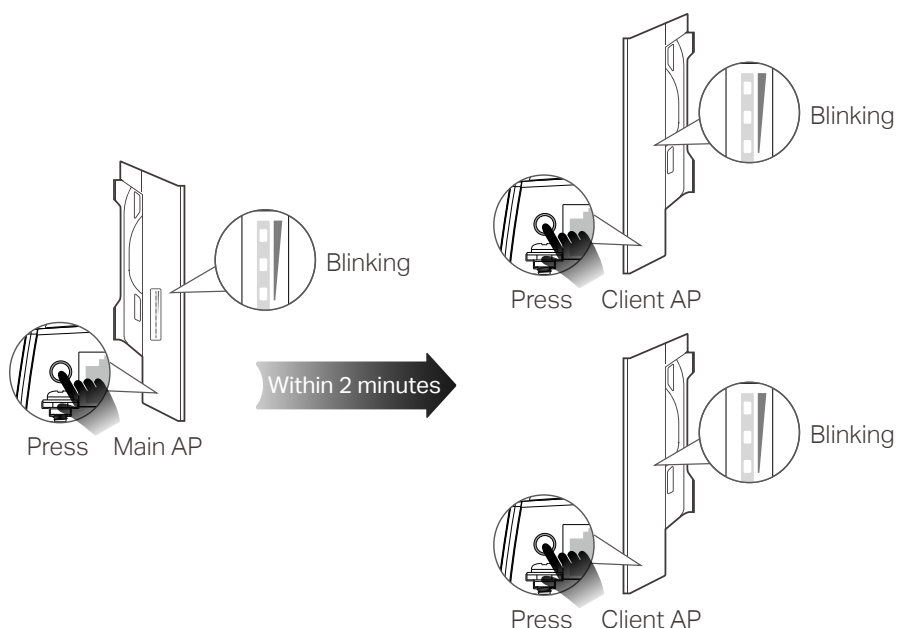
For models that feature the Pair button, you can pair multiple Client APs with the Main AP to form a PtMP network.

Note: The figure below uses EAP211-Bridge for demonstration. Other types of Bridge APs with the Pair button can be used in a similar manner.

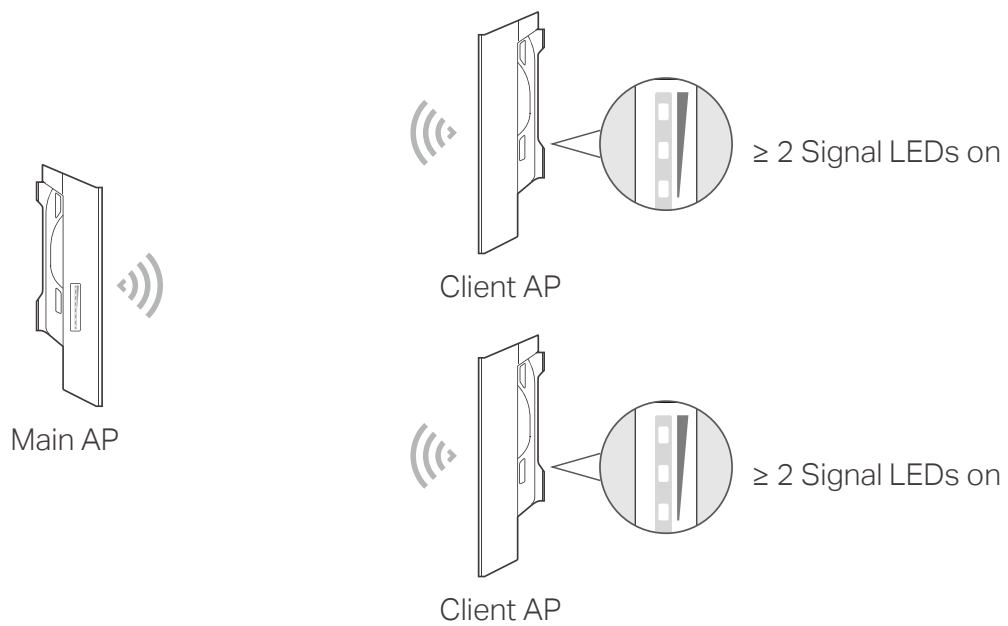
1. Toggle the Role switch to assign each AP as either the Main AP or a Client AP. Ensure each new AP has not been set up.



2. Pair each new AP with the Main AP by using the Pair button.



3. When the Client AP's Signal LEDs turn solid, pairing is successful.

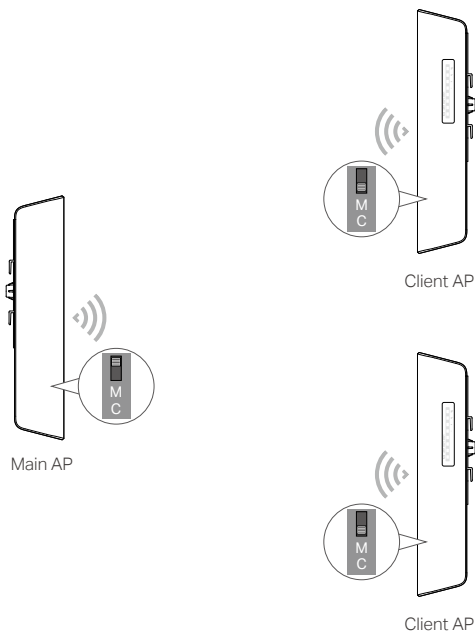


Pairing with the Pairing Code Switches

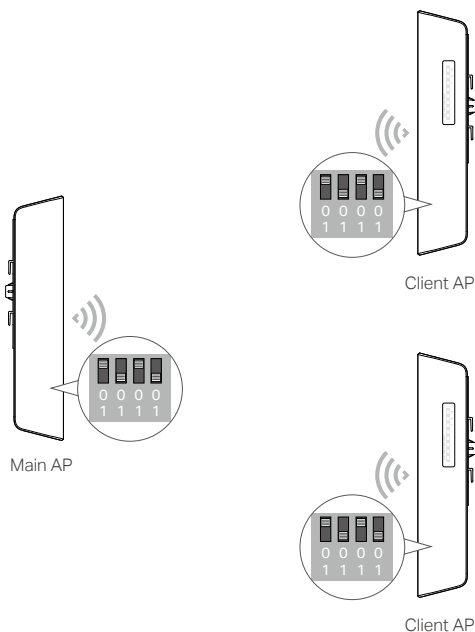
For models that feature Pairing Code switches, you can pair multiple Client APs with the Main AP to form a PtMP network.

Note: The figure below uses Flex Bridge 5 for demonstration. Other types of Bridge APs with Pairing Code switches can be used in a similar manner.

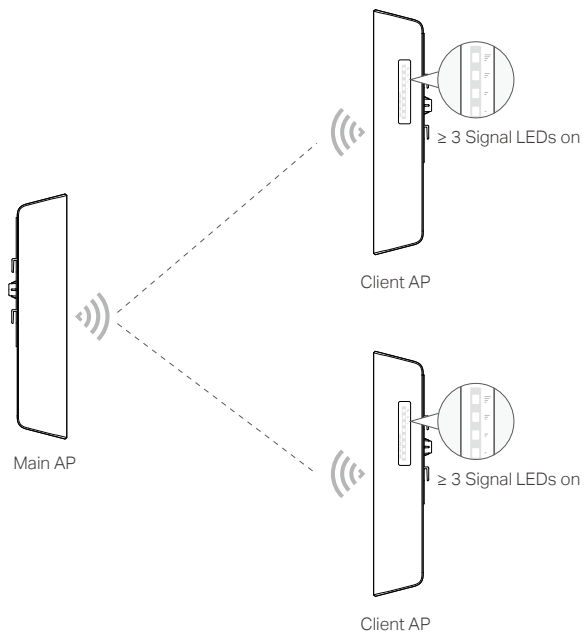
1. Toggle the Role switch to assign each AP's role. Each group contains one Main AP and one or several Client APs.



2. Toggle the Pairing Code switches to set each AP's pairing code. The APs in the same group use the same pairing code, and different groups use different pairing codes.



3. When a Client AP's Signal LEDs turn solid, it is networked successfully.



Note: The Main AP's pairing window will time out 2 hours after the first Client AP connects to it. To start the pairing window again, refer to the user manual at <https://support.omadanetworks.com/document/>.

Network Management

Omada EAPs offer wireless coverage solutions for small to medium-sized businesses and households. They can work independently as standalone APs or be centrally managed via an Omada Controller, delivering a flexible, feature-rich, and easy-to-configure wireless network.

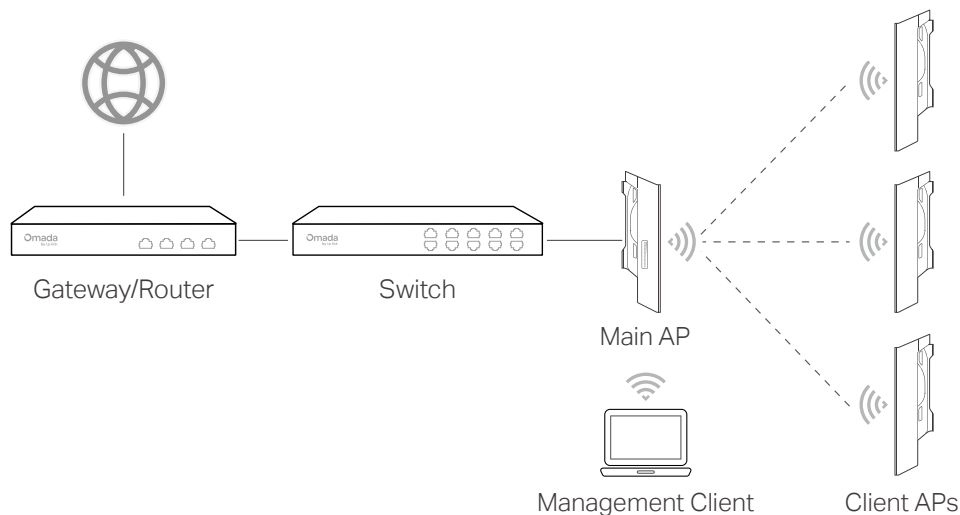
Get Started

Choose a method to set up your Bridge APs:

- **Method 1: Standalone Mode**

Configure and manage Bridge APs through the Main AP.

Note: The figure below uses EAP211-Bridge for demonstration. Other types of Bridge APs can be used in a similar manner.

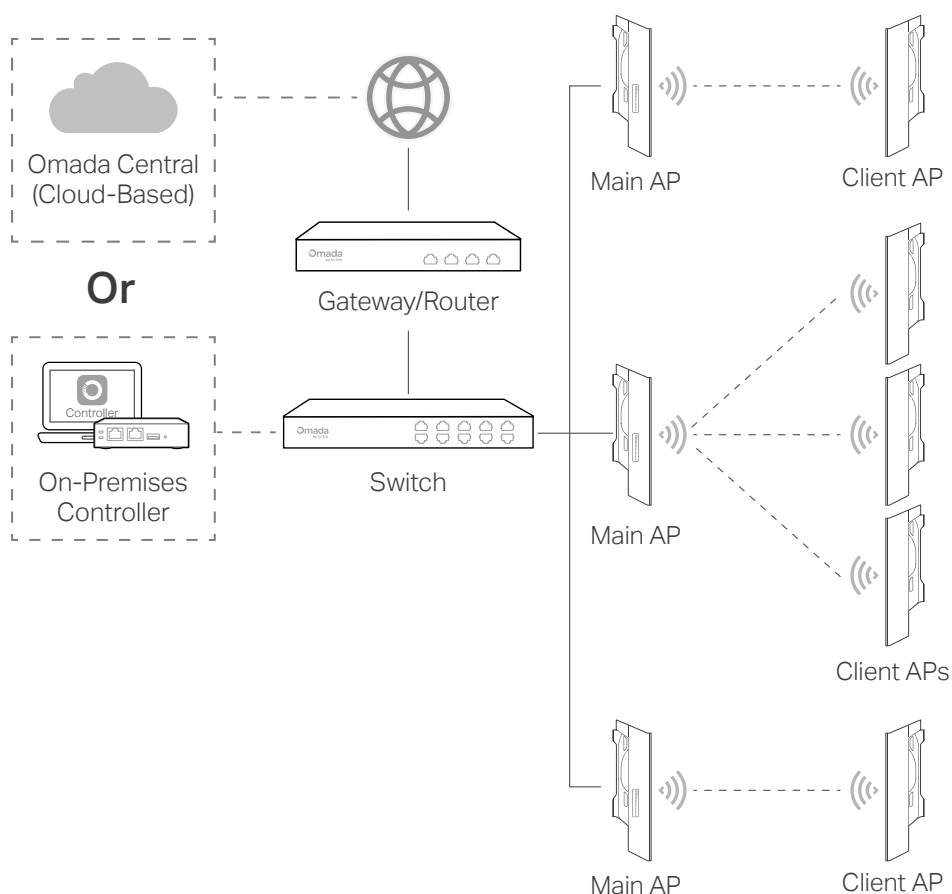


For instructions on how to get started with a standalone EAP, refer to <https://www.omadanetworks.com/support/faq/4097/>.

- **Method 2: Controller Mode**

Configure and manage APs (and other Omada devices) centrally with an Omada Controller.

Note: The figure below uses EAP211-Bridge for demonstration. Other types of Bridge APs can be used in a similar manner.



For instructions on how to get started with an Omada Controller, refer to <https://www.omadanetworks.com/support/faq/4096/>.

Omada App

With the TP-Link Omada app, you can access and manage your Omada devices at a local site or remotely with a tap of your phone.



More Configurations

For more configurations, refer to the User Guides of the Controller and APs on the Documents page: <https://support.omadanetworks.com/document/>