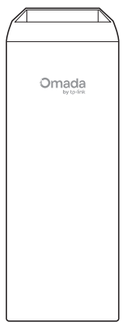
Quick Installation Guide

Indoor/Outdoor Wireless Bridge

Note: EAP211-Bridge KIT is used for demonstration. Images may differ from your actual product.

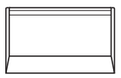
Package Contents

The KIT product contains two sets of accessories and one Installation Guide.



AP

Pole Mounting Strap

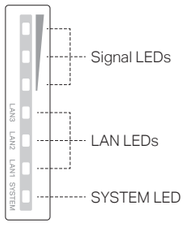


AP Cover*

Installation Guide

1 Hardware Overview

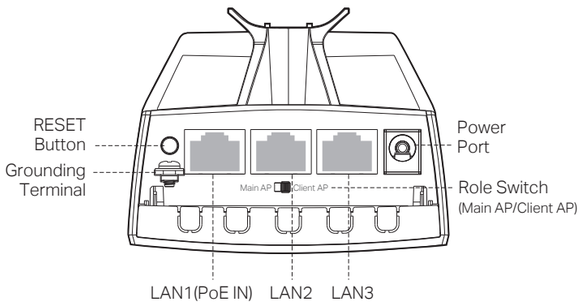
• LED Explanation



LED	Indication
Signal LEDs	Work as Main AP: All LEDs remain solid on. Work as Client AP: More lit LEDs indicates better wireless signal strength.
LAN LEDs	**On:** The port is connected, but not active. **Flash:** The port is connected and active. **Off:** The port is not connected.
SYSTEM LED	**On:** Working normally/Initializing **Off:** Working abnormally/Power off/LED is turned off. **Flash:** • Flash twice: Initialization is completed. • Flash quickly: The AP is resetting, or the Omada Controller is locating the device*. • Flash once per second: The AP is upgrading. • Sustained Flash: The AP is in the isolated state.

* When the Locate feature is activated in the Omada Controller, the AP's SYSTEM 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.

• Panel Layout

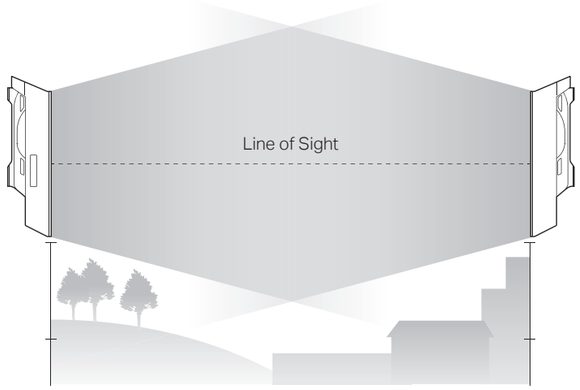


Item	Description
RESET Button	Press and hold for about 5 seconds to reset the AP to its factory settings.
Grounding Terminal	Connect to grounding facilities for lightning and ESD protection.
LAN1 (PoE IN) Port	Connect to a PSE (Power Sourcing Equipment), such as a PoE switch, for both data transmission 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.
Role Switch (Main AP/Client AP)	Toggle left or right to change the AP's role if needed.

2 Site Consideration

• Mounting Height

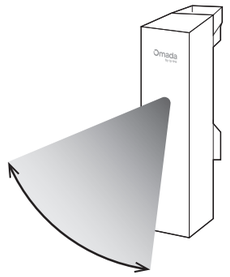
Ensure a clear line of sight between the wireless devices for an optimum performance. An elevated location is recommended as obstacles like trees, buildings and large steel structures will weaken the wireless signal.



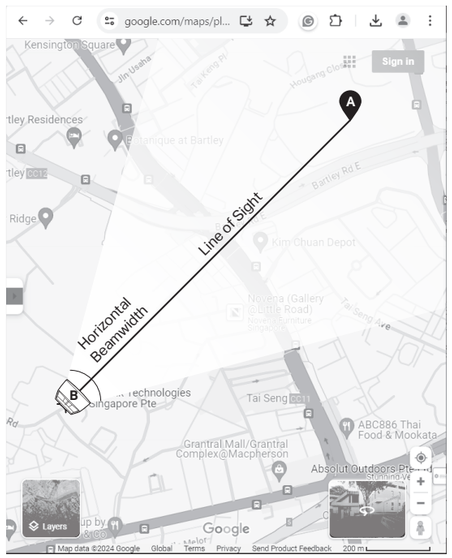
Side View

• Orientation

With built-in directional antennas, the Bridge AP provides sector-shaped network coverage. 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.



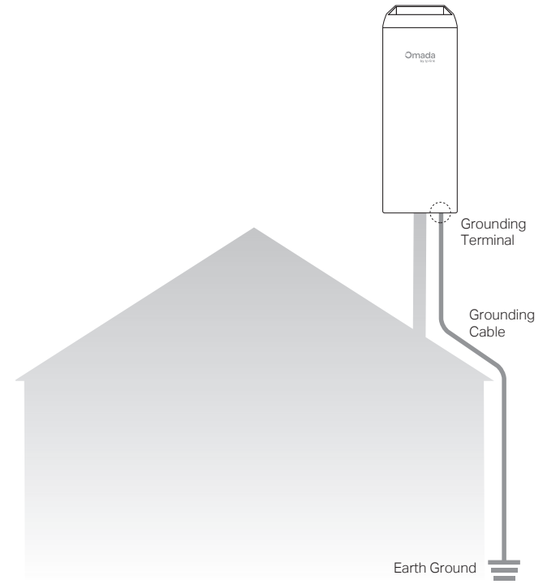
For long-range AP models, you can orient the APs with the assistance of Google Maps, GPS and some landmarks.



3 Lightning and ESD Protection

Proper grounding is extremely important for outdoor devices.

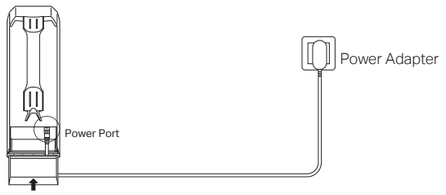
To reduce the damage of potential lightning and ESD attacks, connect the AP's grounding terminal to grounding facilities using a proper grounding wire, which should meet local installation requirements.



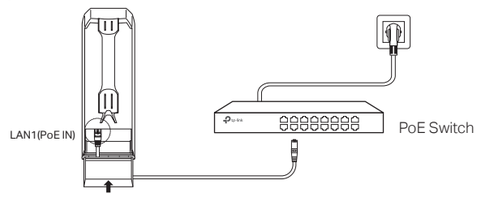
4 Power On

The AP can be powered only by a power adapter, a PSE device (such as a PoE switch), or a passive PoE adapter.

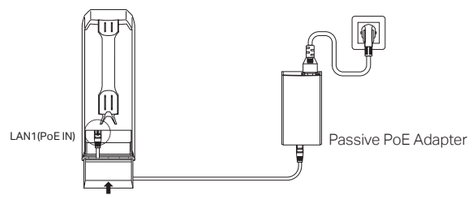
Option 1: Via Power Adapter



Option 2: Via PoE Switch



Option 3: Via Passive PoE Adapter



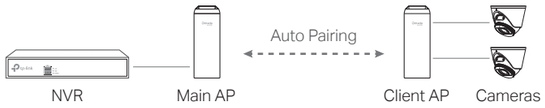
5 Auto Pairing

After power-on, Bridge APs in the same KIT will automatically form a bridge network. The Signal LEDs on the APs will turn on.

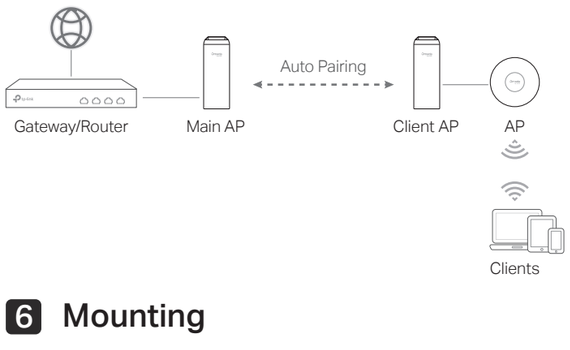
Note: If you have other Bridge APs, refer to the **Network Management** section to add them manually.

1. 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.
2. In a network without a DHCP Server, Bridge APs will use the following DHCP fallback IP addresses:
   Main AP: 192.168.0.254
   Client AP: 192.168.0.253

- **Typical Application 1: Remote Camera Monitoring**

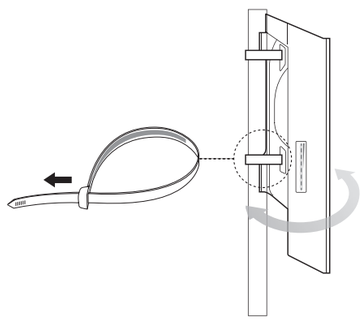


- **Typical Application 2: Wi-Fi Extension**



6 Mounting

At the selected site, approximately align the AP to the direction that you have oriented.



7 (Optional) Network Management

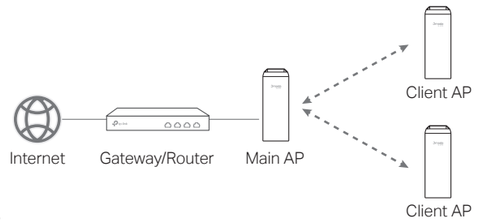
If you want to change AP settings, manage the network, or add other APs to the network, choose a method below:

- **Method 1: Standalone Mode**
  Configure and manage APs through the Main AP (Convenient for a small network with only a few devices)
- **Method 2: Controller Mode**
  Configure and manage APs in batches on a central platform, namely the Omada Controller.

Method 1: Standalone Mode

If your network has only a few devices, you can configure and manage Bridge APs through the Main AP.

Note: The AP's web page is inaccessible while the AP is managed by a Controller.



Notes:
- Before you start, be sure to power up and connect your devices according to the topology figure.
- A DHCP server (typically a gateway/router with the DHCP function enabled) is required to assign IP addresses to the APs and clients in your local network.
- For EAP100-Bridge, it is recommended to use PtP instead of PtMP networking.

Via Web Browser

1. Connect your management device to the Main AP by using the default SSID printed on the product.
   Note: Under factory settings, the AP's management SSID will disable after two hours upon powering on. If you need to connect to the SSID, re-power the AP.
2. Launch a web browser and enter **https://omadaeap.net** in the address bar.
   If your network doesn't have a DHCP server, ensure your management device is using IP address **192.168.0.X**, then enter **https://192.168.0.254** instead to access the AP's web page.
3. Set up a Username and Password for secure management purpose. Then you can configure the Main AP.
4. Add the Client AP(s).
   - For the Client AP in the same KIT as the Main AP, the system will automatically scan for it and add it to the network.
   - For other Bridge APs, go to **Bridge Network**, then click **Add Client AP** and follow web instructions to manually add them to the network.

   Notes:
   1. For security, we recommend changing the default login username and password of the APs. The Main AP's Bridge AP list provides quick access to each AP's web page.
   2. If you want to change the roles of Bridge APs, use the hardware role switch on the products or refer to the User Guide at: https://support.omadanetworks.com/product

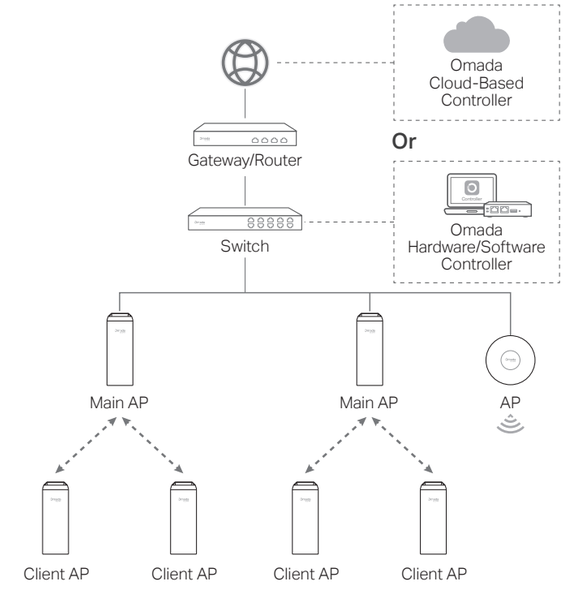
Via Omada App

1. Download and install the TP-Link Omada App from App Store or Google Play.
   Download on the App Store / GET IT ON Google Play or Scan for Omada → Omada
2. Connect your mobile device to the Main AP by using the default SSID printed on the product.
   Note: Under factory settings, the AP's management SSID will disable after two hours upon powering on. If you need to connect to the SSID, re-power the AP.
3. Open the Omada App, go to **Standalone Mode > Bridge**, and wait for the Bridge group to appear. Tap on the group to configure settings.
4. Add the Client AP(s).
   - For the Client AP in the same KIT as the Main AP, the app will automatically scan for it and add it to the network.
   - For other Bridge APs, tap the group, then tap **+** and follow app instructions to manually add them to the network.

   Note: For security, we recommend changing the default login username and password of the APs.

Method 2: Controller Mode

Omada Controller integrates Omada gateways/routers, switches, access points, and more for centralized management.



Notes:
- A DHCP server (typically a gateway/router with the DHCP function enabled) is required to assign IP addresses to the APs and clients in your local network.
- The Omada Controller must have network access to your Omada devices (the gateways/routers, switches, and APs) in order to find, adopt, and manage them.
- For EAP100-Bridge, it is recommended to use PtP instead of PtMP networking.

Via Web Browser

1. Get an Omada Controller ready.
   - **Option 1: Omada Hardware Controller**
     Obtain a Hardware Controller and refer to its Installation Guide to set it up.
   - **Option 2: Omada Software Controller**
     On a PC with Windows or Linux OS, download the Software Controller from **https://support.omadanetworks.com/download/software/omada-controller/**. Then run the file and follow the wizard to set up the Controller.
     Note: To manage your devices, the Software Controller needs to keep running on your PC.
   - **Option 3: Omada Cloud-Based Controller**
     Go to the Omada Portal (**https://omada.tplinkcloud.com**) and log in with your TP-Link ID. Then click **+ Add Controller** to add a Cloud-Based Controller and set it up.
2. Launch the Controller, access your site, and go to the **Devices** page.
3. Now you can adopt and manage the APs.
   Note:
   If you want to change the roles of Bridge APs, use the hardware role switch on the products or refer to the User Guide at: https://support.omadanetworks.com/product

   Tip:
   For the Omada Hardware/Software Controller, you are recommended to enable Cloud Access and bind it to your TP-Link ID. This enables you to remotely access and manage the Controller and Omada devices via the Omada Portal (**https://omada.tplinkcloud.com**).

Via Omada App

1. Download and install the TP-Link Omada App from App Store or Google Play.
   Download on the App Store / GET IT ON Google Play or Scan for Omada → Omada
2. Add the Controller with local access or cloud access.
   - **Local Access**
     Note: Local access applies to the Hardware Controller and Software Controller only.
     a. Connect your mobile device to an AP in your network.
     Note: If you connect to a Bridge AP, ensure you have set up it first. The default SSID on the product is isolated from service networks.
     b. Launch the Omada App and go to **Controller Mode**. Tap the **+** button on the upper-right corner to add the Controller.
   - **Cloud Access**
     a. Launch the Omada App and go to **Controller Mode**.
     b. Log in with your TP-Link ID. A list of Controllers that have been bound with your TP-Link ID will appear.
3. Launch the Controller, access your site, and go to the **Devices** page.
4. Now you can adopt and manage the APs.
   The Omada App is designed to help you quickly configure common settings. If you want to configure advanced settings, use the web page of your Controller.

Safety Information

- Keep the device away from fire or hot environments. DO NOT immerse in water or any other liquid.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use the device where wireless devices are not allowed.
- Do not use damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended.
- The AP can be powered only by a power adapter, a passive PoE adapter, or a PSE device (such as a PoE switch) that complies with Power Source Class 2 (PS2) or Limited Power Source (LPS) defined in the standard of IEC 62368-1.

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/53/EU, 2009/125/EC, 2011/65/EU and (EU)2015/863. The original EU Declaration of Conformity may be found at **https://www.tp-link.com/en/support/ce/**.

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of the Radio Equipment Regulations 2017. The original UK Declaration of Conformity may be found at **https://www.tp-link.com/support/ukca/**

For AP Controller, go to the **Devices** page and select the desired AP to specify the channel.

For web browser, go to **Wireless > Wireless Settings** to specify the channel.

For 5GHz models:

Attention: In EU member states, EFTA countries and Northern Ireland, the operation in the frequency range 5150MHz-5350MHz is only permitted indoors.

Attention: In Great Britain, the operation in the frequency range 5150MHz - 5350MHz is only permitted indoors.

	AT	BE	BG	CH	CY	CZ	DE	DK
	EE	EL	ES	FI	FR	HR	HU	IE
	IS	IT	LI	LT	LU	LV	MT	NL
	NO	PL	PT	RO	SE	SI	SK	UK(NI)

	UK

For detailed configurations, refer to the user guides of the Controller and APs. The guides can be found at: **https://support.omadanetworks.com/product**.

To ask questions, find answers, and communicate with TP-Link users or engineers, please join the TP-Link Community.

For technical support, the user guide and other information, please visit **https://support.omadanetworks.com**, or simply scan the QR code.