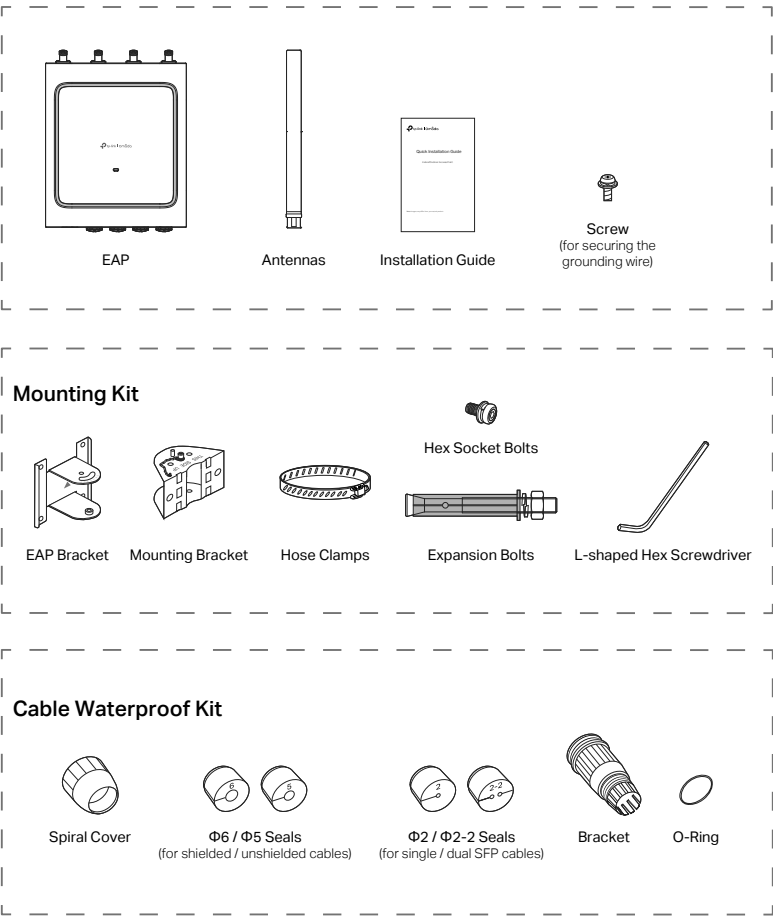# tp-link | Omāda

# Quick Installation Guide

Indoor/Outdoor Access Point

Note: This guide uses EAP668-Outdoor HD for demonstration. Images may differ from your actual product.

## 1 Hardware Overview

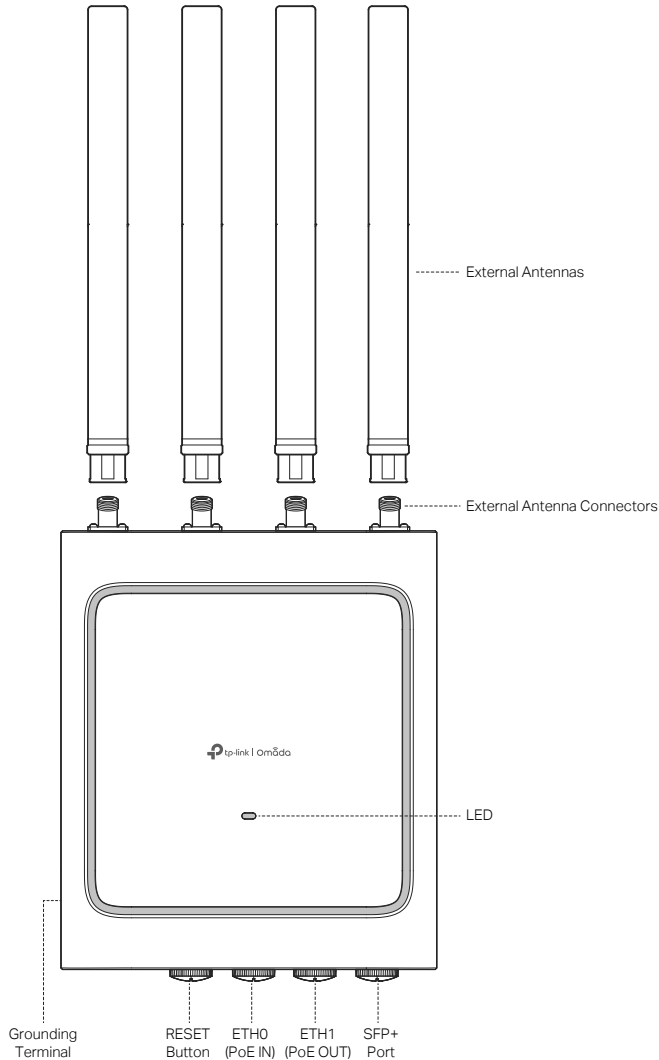### Package Contents



EAP  Antennas  Installation Guide  Screw (for securing the grounding wire)

**Mounting Kit**



EAP Bracket  Mounting Bracket  Hose Clamps  Hex Socket Bolts  Expansion Bolts  L-shaped Hex Screwdriver

**Cable Waterproof Kit**



Spiral Cover  Φ6 / Φ5 Seals (for shielded / unshielded cables)  Φ2 / Φ2-2 Seals (for single / dual SFP cables)  Bracket  O-Ring

Note: Accessories may vary by product.

## Panel Layout



- External Antennas
- External Antenna Connectors
- LED

Grounding Terminal | RESET Button | ETH0 (PoE IN) | ETH1 (PoE OUT) | SFP+ Port

## SYS LED Explanation

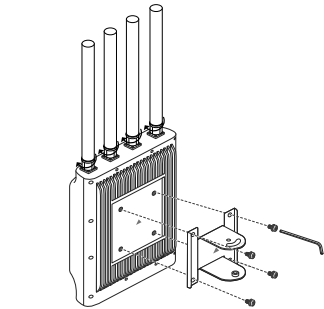| LED Status | Indication |
|---|---|
| Flash twice | Initialization is complete. |
| Solid green | The device is initializing or working properly. |
| Orange | Power supply is insufficient. |
| Off | System errors. RAM, Flash, Ethernet, WLAN, or firmware may be malfunctioning. |
| Slow flash | Firmware update is in progress. Do not disconnect or power off the device. |
| Quick flash | The device is being located or being reset to its factory settings. |
| Sustained on with brief off | The device is in isolated state. |

## Buttons and Interfaces

| Item | Description |
|---|---|
| RESET Button | With the EAP powered on, press and hold the button for about 5 seconds until the LED flashes, then release the button. The EAP will restore its factory settings. |
| ETH0 (PoE IN) Port | Connect to a PSE (Power Sourcing Equipment), such as a PoE switch, for both data transmission and Power over Ethernet (PoE) through Ethernet cable. |
| ETH1 (PoE OUT) Port | Connect to a client device to transmit data and supply power (PoE Passthrough)'. |
| SFP+ Port | Connect to an SFP module to transmit optical signals. |
| Grounding Terminal | Connect to grounding facilities for lightning and ESD protection. |
| External Antenna Connectors | Connect to external antennas if needed. |

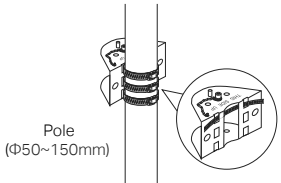* The device can supply PoE output power only when it is receiving 802.3bt PoE input power.
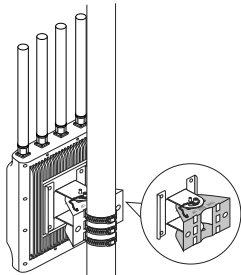
## 2 Mounting

### Option 1: Pole Mounting

**Step 1:**

Install the antennas.

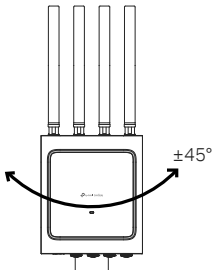Secure the EAP bracket to the back of the EAP with the provided hex socket bolts.

**Step 2:**

Secure the mounting bracket to the pole with the provided hose clamps.



Pole (Φ50~150mm)

**Step 3:**

Remove the bolt in the middle of the mounting bracket, connect the EAP bracket to the mounting bracket, then screw the bolt back.
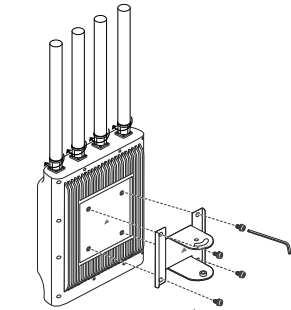
**Step 4:**

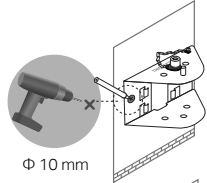Rotate the EAP horizontally to adjust its orientation.

±45°

Tips:
1. The included mounting kit supports horizontal rotation of ±45°.
2. For additional rotation options, mount accessories for the access point are available separately and can be purchased as needed.
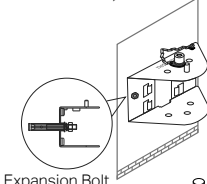
### Option 2: Wall Mounting

**Step 1:**

Install the antennas.

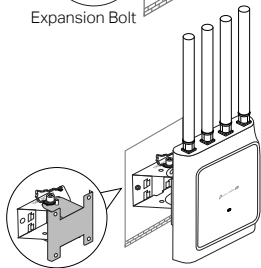Secure the EAP bracket to the back of the EAP with the provided hex socket bolts.

**Step 2:**

Place the mounting bracket in the correct position. Mark positions for the bolt holes .
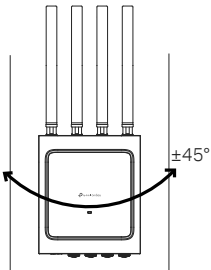
Drill holes at the marked positions.



Φ 10 mm

**Step 3:**

Secure the mounting bracket to the wall with the provided expansion bolts.

Expansion Bolt

**Step 4:**

Remove the bolt in the middle of the mounting bracket, connect the EAP bracket to the mounting bracket, then screw the bolt back.

**Step 5:**

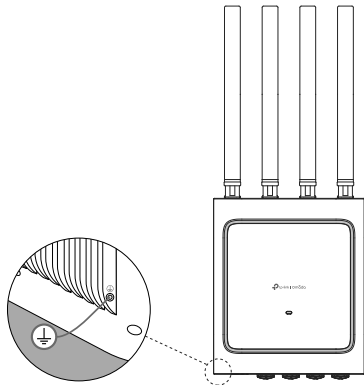Rotate the EAP horizontally to adjust its orientation.

±45°

Tips:
1. The included mounting kit supports horizontal rotation of ±45°.
2. For additional rotation options, mount accessories for the access point are available separately and can be purchased as needed.

## 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 EAP's grounding terminal to grounding facilities using a proper grounding wire, which should meet local installation requirements. Secure the grounding wire to the grounding terminal with the provided screw.
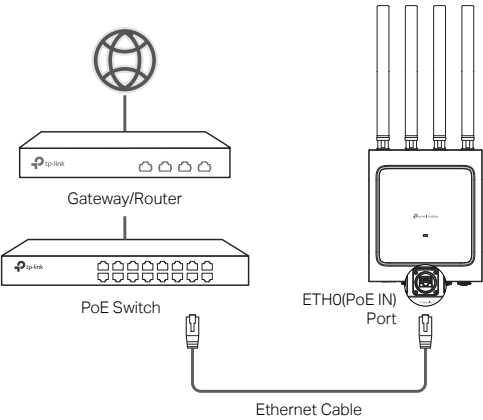
⚠️ 
1. Connect the protective earthing terminal to the installation's protective earthing conductor before powering on the device.
2. The product must be installed by a qualified professional.
3. The grounding connection should be in accordance with the requirements of local electrical code.
4. The required size of the grounding wire should be at least 18AWG.
5. The grounding conductor in contact with the protective earthing terminal should be copper tinned.
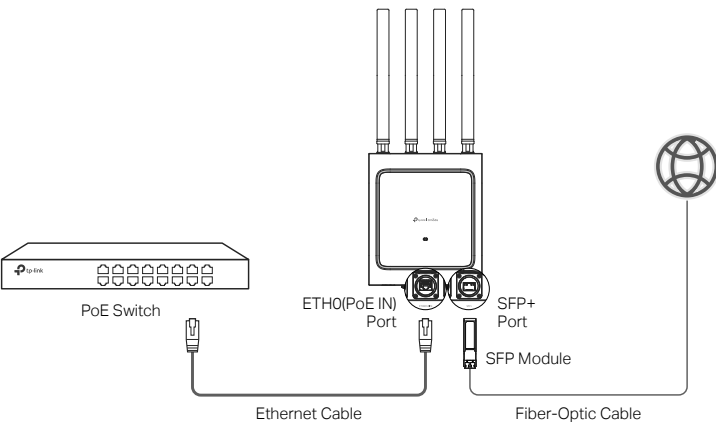


## 4 Hardware Connection

The EAP can connect to the internet via an Ethernet and/or fiber network. You can choose the connection method according to your needs.

### Option 1: Connect via Ethernet



Gateway/Router

PoE Switch

ETH0(PoE IN) Port

Ethernet Cable

### Option 2: Connect via Fiber Network



PoE Switch

ETH0(PoE IN) Port  SFP+ Port

SFP Module

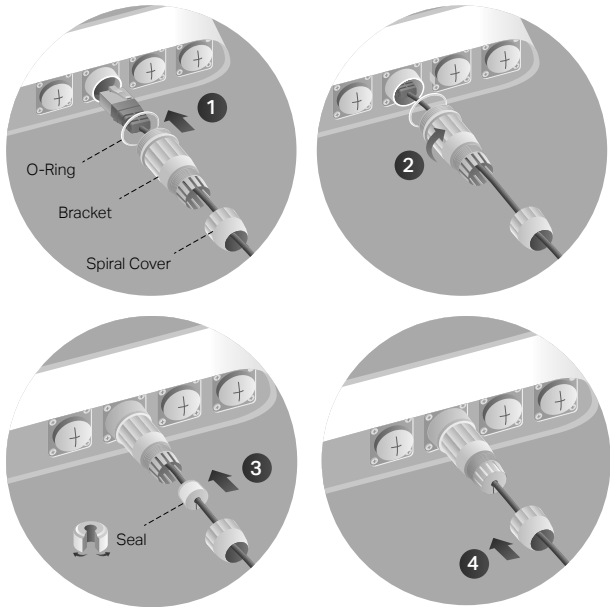Ethernet Cable  Fiber-Optic Cable

## 5 Waterproof

Connect the cable to the corresponding port with the provided waterproof kit.

**Note:** The example below shows how to connect an Ethernet cable. If you also use the fiber-optic cable, you can connect it in a similar manner except for the type of seal.
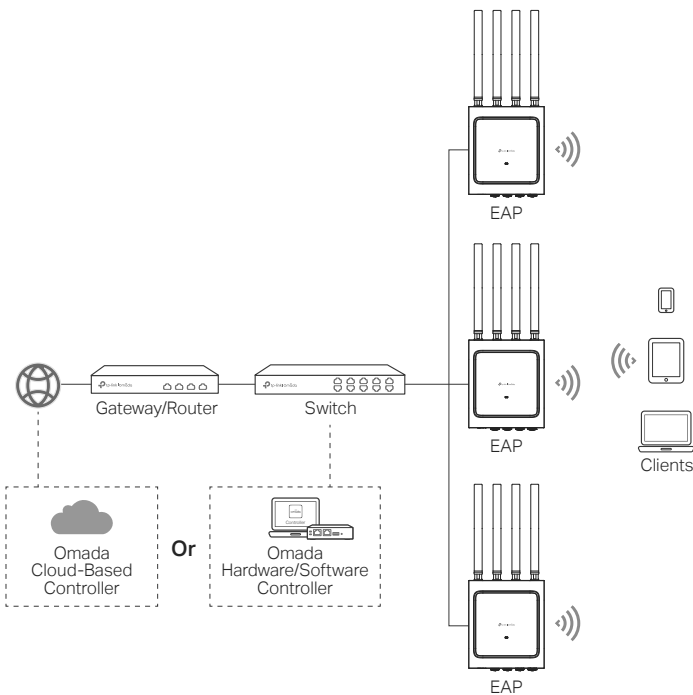
⚠️ To maintain proper waterproofing, select the correct seal based on the actual cable type and outer diameter.



- O-Ring
- Bracket
- Spiral Cover
- Seal

① Remove the waterproof cap from the port. Fit the cable through the **Spiral Cover**, **Bracket**, and **O-Ring**, and connect the cable to the port.

② Fit the **O-Ring** to the head of the **Bracket** and screw the **Bracket** to the body of the device.
**Note:** Don't wrap the **O-Ring**.

③ Fit the cable through the **Seal**'s slit with the **thinner** side towards the **Bracket**, and plug the seal to the **Bracket**.

④ Screw the **Spiral Cover** to the **Bracket**.

## 6 Software Configuration

Choose a method to set up your EAPs:

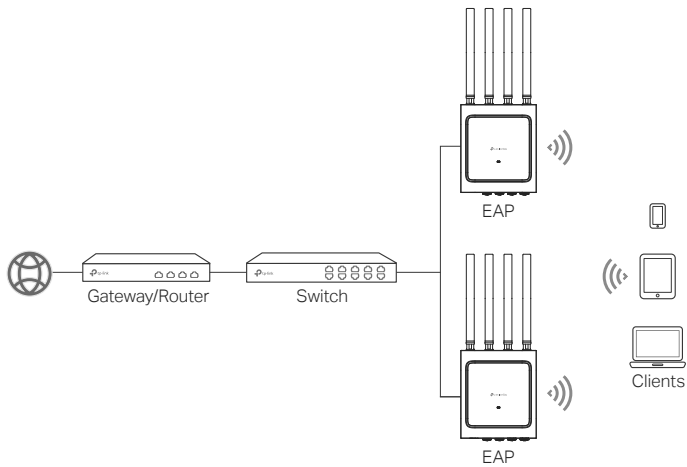- **Method 1: Standalone Mode**
  Configure and manage EAPs separately (Convenient for small networks with only a few devices)

- **Method 2: Controller Mode**
  Configure and manage EAPs in batches through a central platform, namely the Omada Controller.

### Method 1: Standalone Mode

If your network has only a few devices, you can configure and manage EAPs separately on their standalone pages.



Gateway/Router — Switch — EAP / EAP — Clients

**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 EAPs and clients in your local network.

### Method 2: Controller Mode

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



Gateway/Router — Switch — EAP — Clients
Omada Cloud-Based Controller **Or** Omada Hardware/Software Controller

**Notes:**
- A DHCP server (typically a gateway/router with the DHCP function enabled) is required to assign IP addresses to the EAPs and clients in your local network.
- The Omada Controller must have network access to your Omada devices (the gateways/routers, switches, and EAPs) in order to find, adopt, and manage them.

**Note:** The EAP web page is inaccessible while the EAP is managed by a Controller.
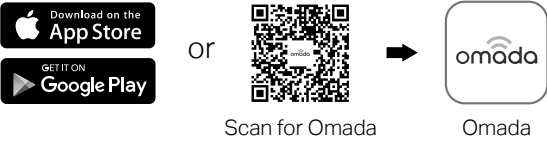
1. Connect your device to the EAP by using the default SSIDs printed on the product.

2. Launch a web browser and enter **https://tplinkeap.net** in the address bar. Use **admin** for both Username and Password to log in.

> https://tplinkeap.net

3. Set up a new Username and Password for secure management. Then you can configure the AP.

1. Download and install the TP-Link Omada App from the App Store or Google Play.
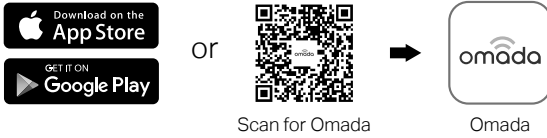
 or  ➡ omada

Scan for Omada    Omada

2. Connect your mobile device to the EAP by using the default SSIDs printed on the product.

3. Launch the Omada App, go to the **Standalone Mode** page, and wait for the EAP to appear. Tap on the EAP to configure it.

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 EAP.

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://www.tp-link.com/support/download/omada-software-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 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 EAPs.

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

For detailed configurations, refer to the User Guide of the Controller at our official website: **https://www.tp-link.com/support/download/?type=smb**

1. Download and install the TP-Link Omada App from the App Store or Google Play.

 or  ➡ omada

Scan for Omada    Omada

2. Add the Controller via local access or cloud access.

- **Option 1: Local Access**
  **Note:** Local access applies to the On-Premises Hardware/Software Controller.
  a. Connect your mobile device to the EAP by using the default SSIDs printed on the product.
  b. Launch the Omada App and go to the **Controller Mode** page. Tap the + button in the upper-right corner to add your On-Premises Controller.

- **Option 2: Cloud Access**
  a. Launch the Omada App and log in with your TP-Link ID.
  b. Go to the **Controller Mode** page. 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 EAPs.

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.

For detailed configurations, refer to the user guides of the controller and EAPs. The guides can be found in the download center of our official website: **https://www.tp-link.com/support/download/?type=smb**

📝 To ask questions, find answers, and communicate with TP-Link users or engineers, please visit **https://community.tp-link.com/business** to join the TP-Link Community.

📞 For technical support, user guides, and other information, please visit **https://www.tp-link.com/support/?type=smb**, or simply scan the QR code.