



tp-link EAP650 Wireless Access Point Installation Guide

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Quick Installation Guide Wireless Access Point

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<https://www.tp-link.com/support/setup-video/>

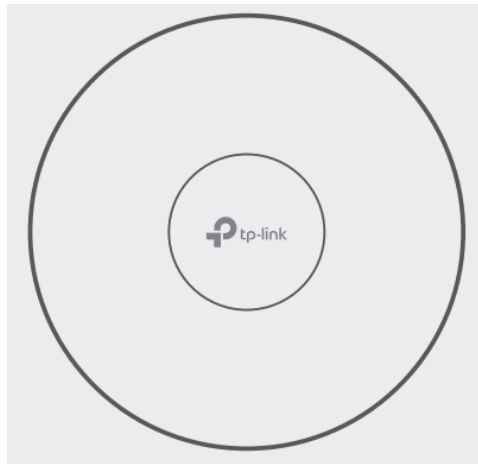
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Hardware Overview

Note: For simplicity, we will take EAP650 V1 for example throughout the Guide. The image may differ from the actual product

Front Panel



LED Indicator

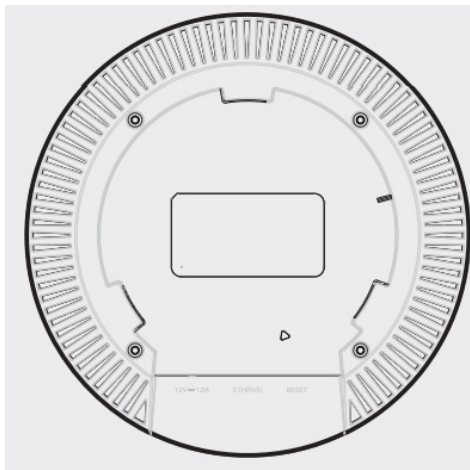
On: Working normally/Initializing.

Off: Working abnormally/Power off/LED is turned off.

Flashing:

- Initialization: The LED flashes twice after initialization is completed.
- Upgrade: The LED flashes once per second while upgrading.
- Reset The LED flashes quickly during the reset. The EAP will then reboot.
- Isolated: The LED flashes slowly. The EAP is in an isolated state.
- Locate: When the Locate feature is activated in the Omada controller, the LED flashes quickly to locate and identify the device. The LED will flash for 10 minutes, or you can disable the feature manually to stop it from flashing.

Rear Panel



RESET

With the device powered on, press and hold the button for about 5 seconds until the LED flashes quickly. Then release the button. The device will restore to factory default settings.

Ethernet Port: ETH (PoE)

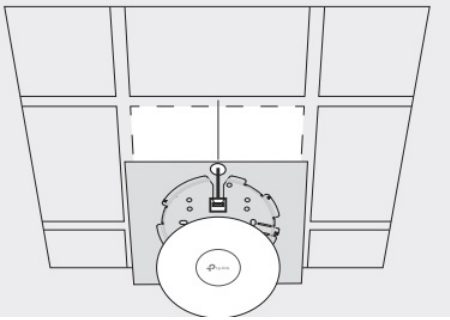
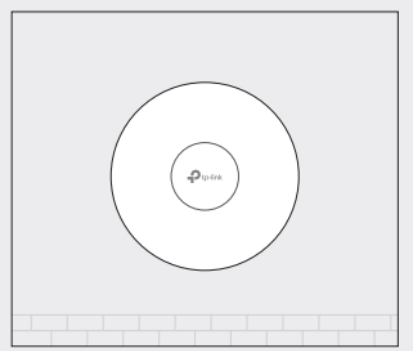
The port is used to connect to a router or a switch to transmit data, or to a PSE (Power Sourcing Equipment), such as a PoE switch, for both data transmission and Power over Ethernet (PoE) through Ethernet cable. The port supports a transmission speed of 10/100/1000 Mbps.

Power Port

Plug one end of the provided power adapter to this port and the other end to a standard electrical wall outlet to power the EAP. Please use the power adapter provided in the package.

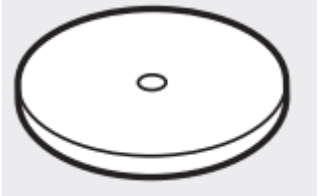
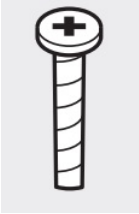
Hardware Installation

The EAP can be mounted to the ceiling, the wall, or in a junction box, using the screws in the package. Choose the appropriate mounting and installation steps below. Note: This product requires heat dissipation through the metal bracket during use, please be careful not to touch the metal bracket in the heat dissipation.

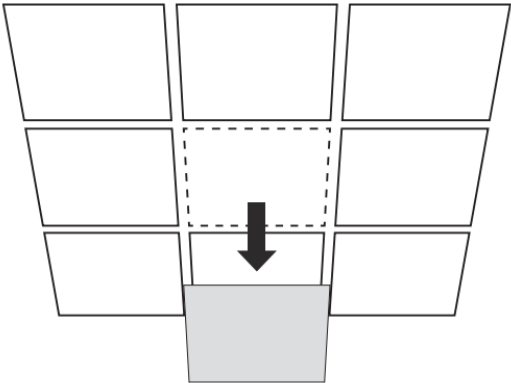
		
Option 1: Ceiling Mounting	Option 2: Wall Mounting	Option 3:

Option 1: Ceiling Mounting

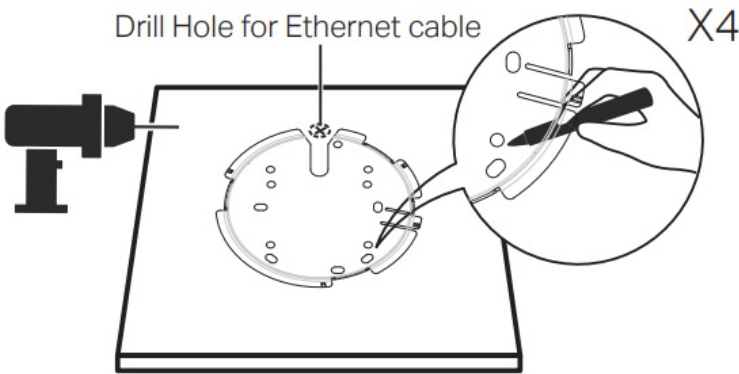
Note: Make sure that the ceiling tile is larger than the EAP.

		
Washers (Qty.4)	M3x30 Pan-head Screws (Qty.4)	Wing

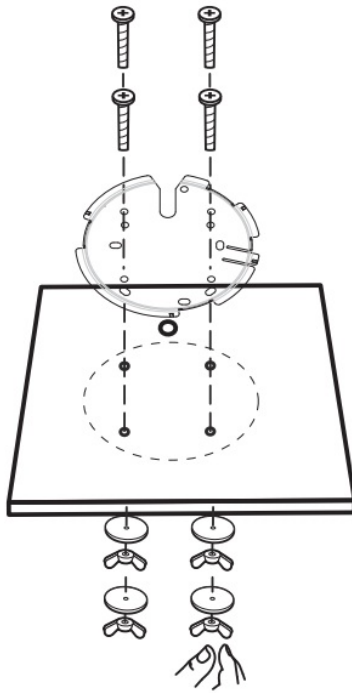
Remove the ceiling tile.



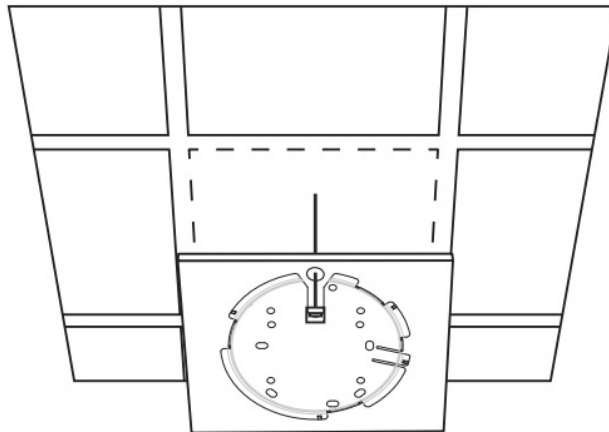
Place the mounting bracket in the center of the ceiling tile. Mark four positions for the screw holes and a location for the Ethernet cable hole. Drill four 4 mm (5/32 in) iameter holes for the screws and a 25 mm (63/64 in) diameter hole for the Ethernet cable at the marked positions.



Secure the mounting bracket to the ceiling tile using four M3x30 pan-head screws, washers, and wing nuts, as shown on the left.

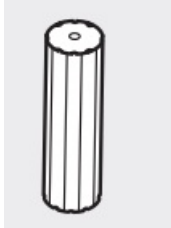
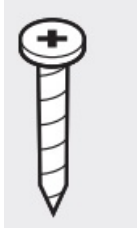


Feed the Ethernet cable through the hole and set the ceiling tile back into place.

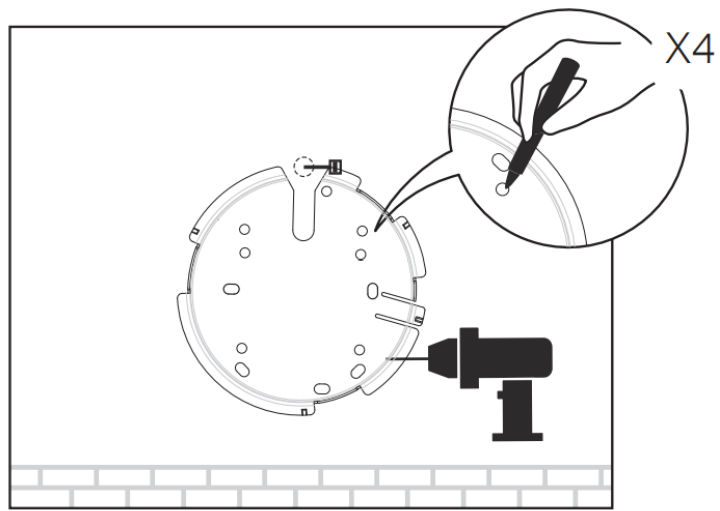


Connect the Ethernet cable to the Ethernet port. Please pay attention to the triangle sign. Attach the EAP to the mounting bracket, then rotate it until it locks into place, as shown on the left.

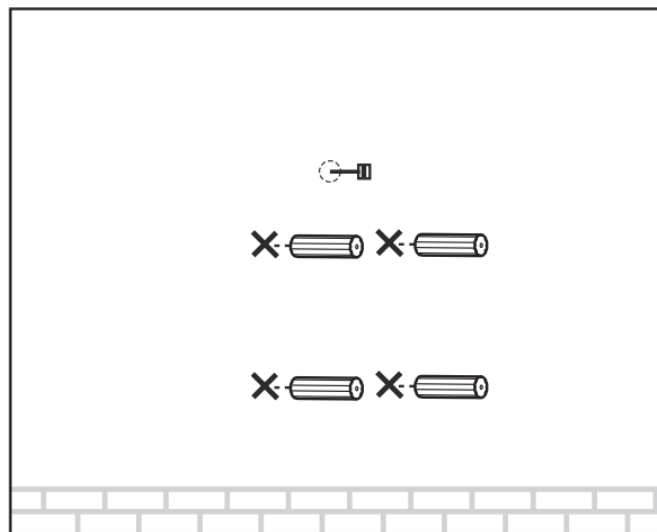
Option 2: Wall Mounting

	
M3×28 Plastic Wall Anchors (Qty.4)	M3×20 Self-tapping Screws (Qty.4)

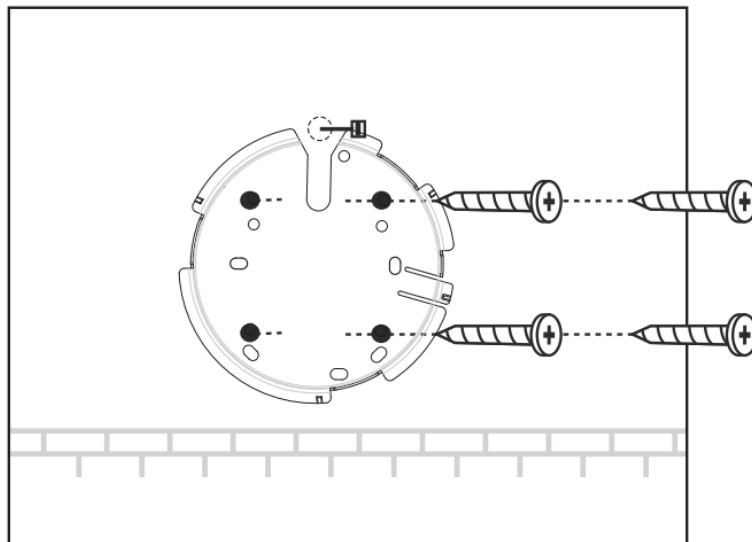
If your Ethernet cable feeds through the wall, position the mounting bracket below the cable hole. Mark four positions for the screw holes and drill four 6 mm (15/64 in) diameter holes at the marked positions.



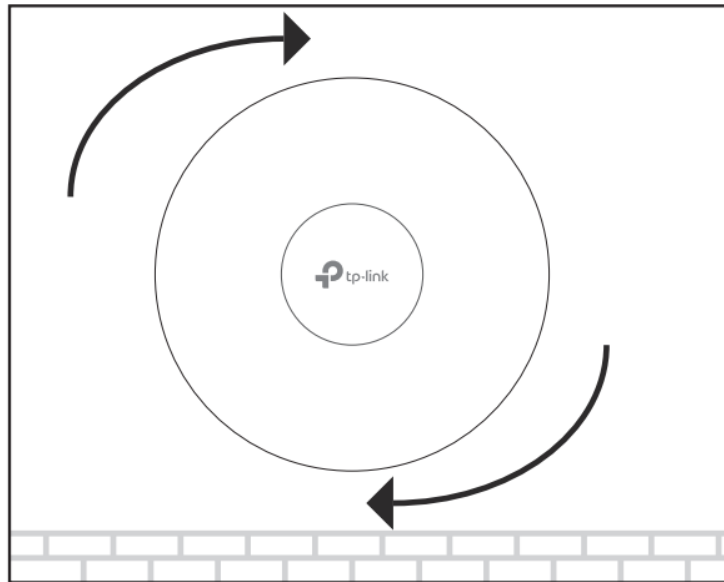
Insert the plastic wall anchors into the 6 mm diameter holes.



Secure the mounting bracket to the wall by driving the self-tapping screws into the anchors. Make sure that the shoulders of the mounting bracket are on the outside.



Connect the Ethernet cable to the Ethernet port on the EAP.

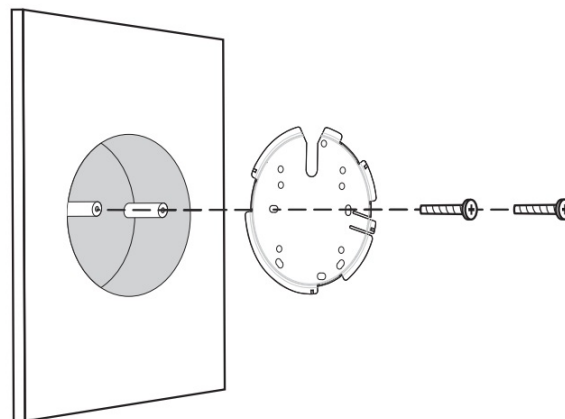
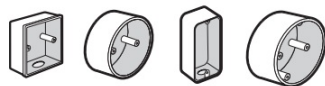


Attach the EAP to the mounting bracket by rotating it until it locks into place, as shown on the left.

Option 3: Junction Box Mounting

Prepare the cables and the junction box in advance. Ensure that the mounting holes align to your junction box.

***Compatible wall junctions:**

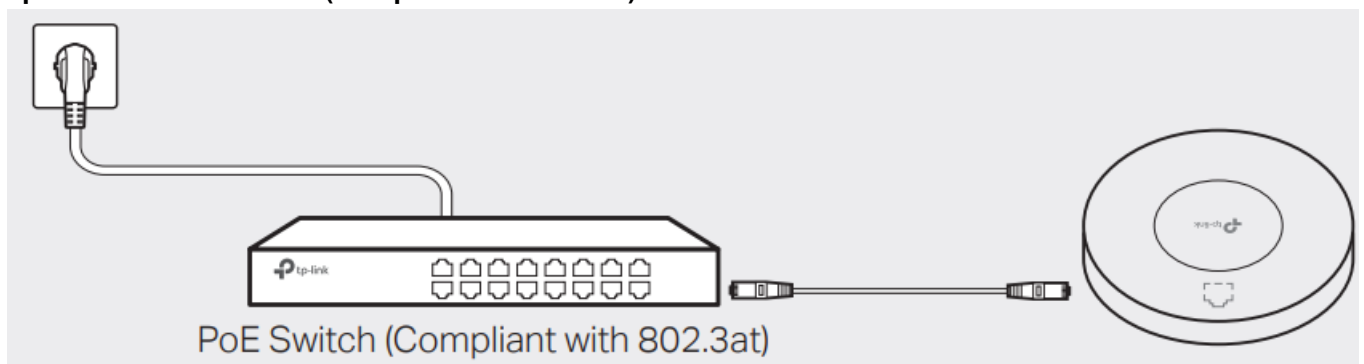


Route the cables through the square cable hole on the mounting bracket, and secure the mounting bracket to the junction box using screws. Then follow Step 4 and Step 5 of

Power Supply

The EAP can be powered via a power adapter or a PSE device (such as a PoE switch) which complies with LPS or PS2 standards.

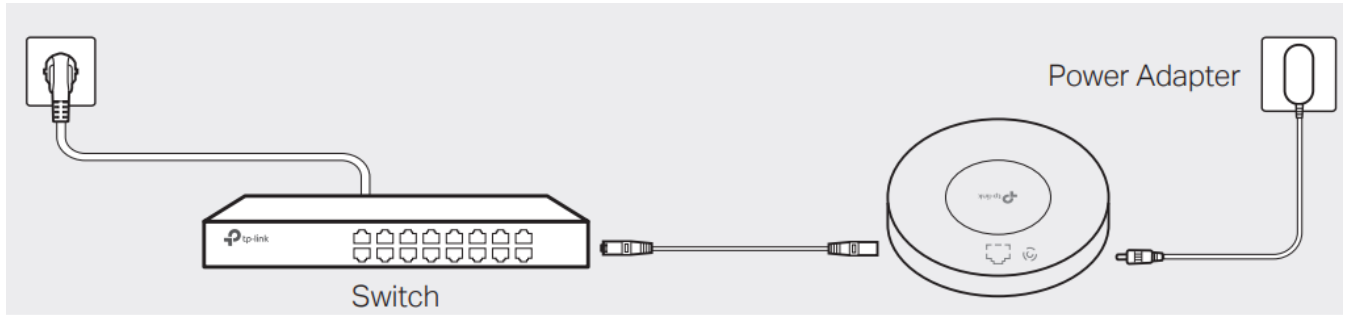
Option1: Via PoE Switch (Compliant with 802.3at)



Connect an Ethernet cable from the PoE switch (compliant with 802.3at) to the Ethernet port.

Note: EAP610 V3 is also compliant with 802.3af.

Option2: Via Power Adapter



Plug one end of the provided power adapter into the power port of the EAP and the other end to a standard electrical wall outlet.

Software Configuration

Choose from the following methods to set up your EAPs:

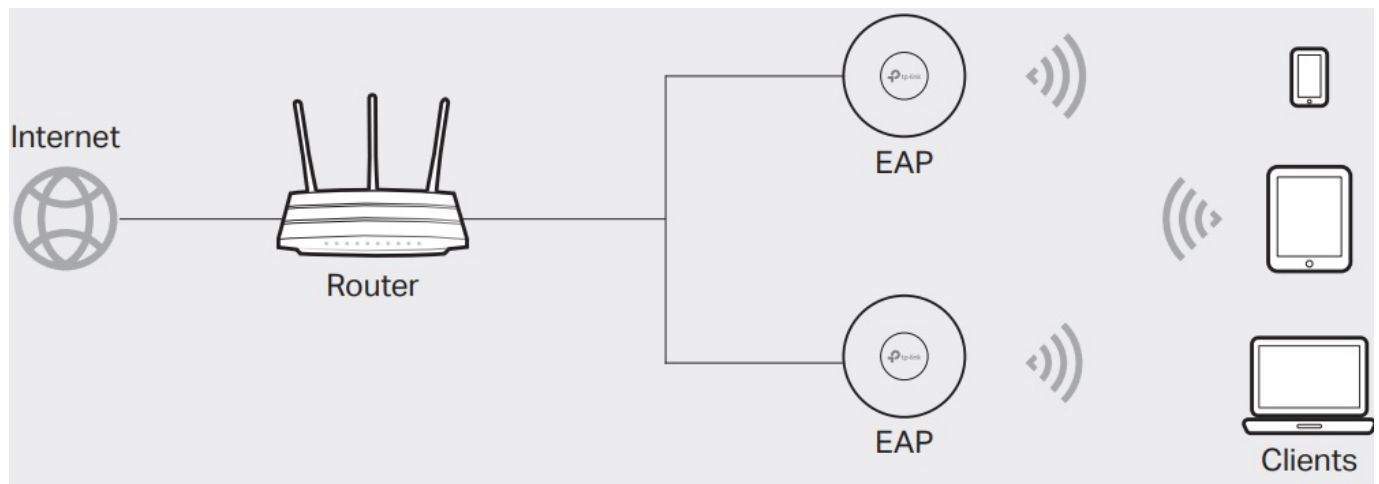
Method 1: Standalone Mode

To configure and manage EAPs separately (Convenient for a small network with only a few devices)

Method 2: Controller Mode

To configure and manage EAPs in batches on a central platform, namely Omada Controller.

Method 1: Standalone Mode



Note:

Before you start, be sure to power up and connect your devices according to the topology figure.

A DHCP server (typically a router with DHCP function enabled) is required to assign IP addresses to the EAPs and clients in your local network.

Via Omada App

1. Download the TP-Link Omada App on your mobile device. It can be downloaded from App Store or Google Play:



or



Scan for Omada App

Download Omada App

2. Connect your mobile device to the EAP by using the default SSID (format: TP-Link_2.4GHz/5GHz_XXXXXX) printed on the label at the bottom of the product.

3. Open the Omada App, and wait for the EAP to appear on the Standalone APs page. Tap on the EAP you want to configure.

The Omada App is designed to help you quickly configure the common settings. If you want to configure advanced settings, use the web page of your EAP or use Controller Mode.

Via Web Browser

1. Connect wirelessly by using the default SSID (format: TP-Link_2.4GHz/5GHz_XXXXXX) printed on the label at the bottom of the product.
2. Launch a web browser and enter <http://tplinkeap.net> in the address bar. Use admin for both Username and Password to log in. ©2022 TP-Link 7106509468 REV1.0.0
3. Set up a new Username and Password for secure management purposes. Modify the wireless parameters and reconnect your wireless devices to the new wireless network.

To configure other EAPs, connect your device to the EAP by the corresponding default SSID and repeat the steps listed above. You can configure some basic functions in Standalone Mode. If you want to configure advanced functions, use Controller Mode.

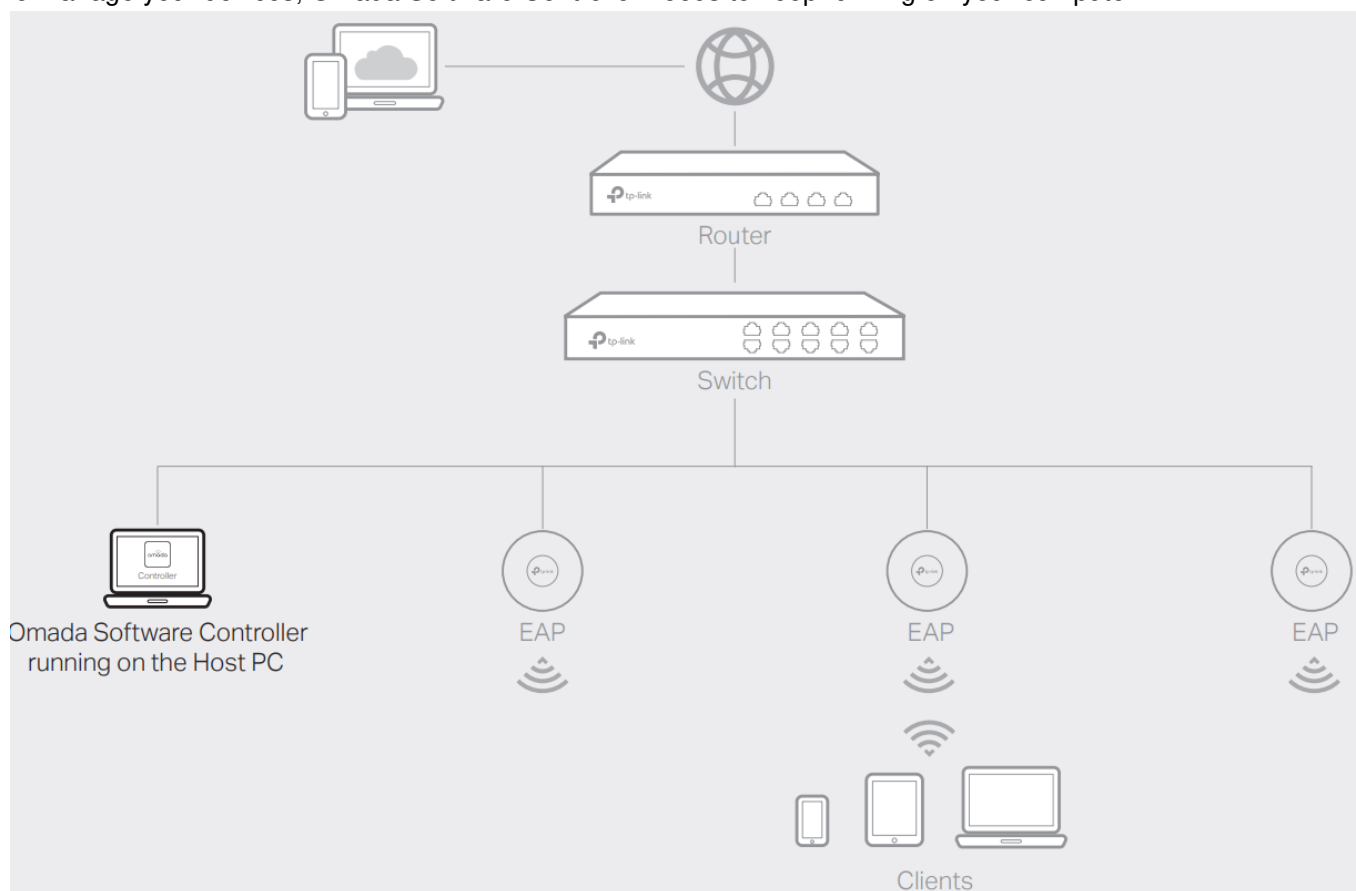
Method 2: Controller Mode

Choose from the following two types of Omada Controller:

Type 1: Omada Software Controller

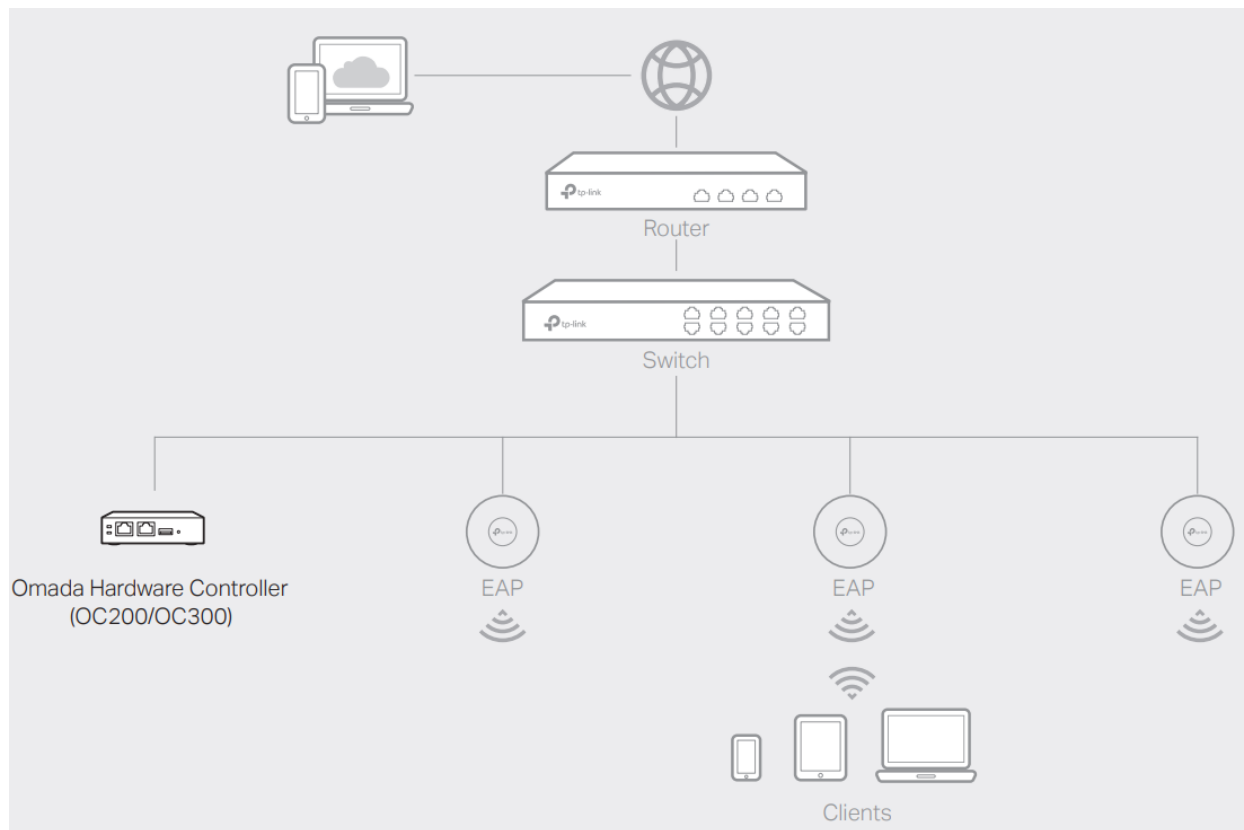
On a PC with Windows OS or Linux OS, download the Omada Software Controller from <https://www.tp-link.com/support/download/omada-software-controller/>. Then run the file and follow the wizard to install and launch the Omada Software Controller.

To manage your devices, Omada Software Controller needs to keep running on your computer.



Type 2: Omada Hardware Controller (OC200/OC300)

Omada Hardware Controller (OC200/OC300) is a good alternative if you have no spare PC to keep running Omada Software Controller in the network. It needs to be purchased additionally. For more details, refer to the Installation Guide of OC200/OC300.



Note:

- Before you start, be sure to power up and connect your devices according to the topology figure.
- A DHCP server (typically a router with DHCP function enabled) is required to assign IP addresses to the EAPs and clients in your local network.
- Omada Controller must have network access to your Omada devices (the router, switch, and EAPs) in order to find, adopt, and manage them.

1. Download the TP-Link Omada App on your mobile device. It can be downloaded from App Store or Google Play:



or



Scan for Omada App

Download Omada App

2. Launch your Omada App and configure the controller at a local site or remote site.

Local Management

- Connect your mobile device to the EAP by using the default SSID (format: TP-Link_2.4GHz/5GHz_XXXXXX) printed on the label at the bottom of the product.
- Launch Omada App and go to Local Access, tap the + button on the upper-right corner to add the controller. Then you can further configure the controller.

Remote Management

Note: Before you start, make sure that both your controller and mobile device can access the internet.

For Omada Software Controller

- Make sure that Cloud Access is enabled on your controller and your controller has been bound with your TP-Link ID.

b. Launch Omada App and log in with your TP-Link ID. Then go to Cloud Access. A list of controllers that have been bound with your TP-Link ID will appear. Then you can further configure the controller.

For Omada Hardware Controller

- a. Make sure that Cloud Access is enabled on your controller. By default, Cloud Access is enabled. Make sure that the Cloud LED is flashing slowly.
- b. Launch Omada App and log in with your TP-Link ID. Then go to Cloud Access. Tap the +button on the upper-right to add your controller. Then you can further configure the controller.

Via Web Browser

1. Open the Omada Controller's web page.

For Omada Software Controller

Launch the Omada Software Controller on your PC. After the initiation process, the controller automatically opens its web page. If not, click Launch a Browser to Manage the Network.

For Omada Hardware Controller

As Omada Hardware Controller gets its IP address from the DHCP server of the router, we don't know its IP address explicitly. However, we can find it out on the router's DHCP client list.

- a. You need first find the IP address of the router. Open the command line on your PC and enter ipconfig. In the result list, find the Default Gateway, which is also the IP address of the router.
 - b. Launch a web browser and enter the IP address of the router. Log in to the router's web page, and both the username and password are an admin by default. Then go to Network > LAN > DHCP Client List to find the IP address of your controller according to its MAC address.
 - c. Enter the IP address of your controller in the address bar to open its web page.
2. On the Omada Controller's web page, follow the wizard to complete the quick setup.
 3. After the quick setup, the login page appears. Enter the username and password you have created and click Log in. Then you can further configure the controller.
 4. (For Remote Management) You can remotely access and manage your controller via Omada Cloud Service.

Note: Before you start, make sure that both your controller and your PC can access the internet.

For Omada Software Controller

- a. Make sure that Cloud Access is enabled on your controller and your controller has been bound with your TP-Link ID. On the Omada Controller's web page, go to Settings > Cloud Access to enable Cloud Access and bind your TP-Link ID. If you have set it up in the quick setup, skip this step.
- b. Launch a web browser and enter <https://omada.tplinkcloud.com> in the address bar. Enter your TP-Link ID and password to log in. A list of controllers that have been bound with your TP-Link ID will appear. Then you can click Launch to further configure the controller.

For Omada Hardware Controller

- a. Make sure that Cloud Access is enabled on your controller. By default, Cloud Access is enabled. Make sure that the Cloud LED is flashing slowly.
- b. Launch a web browser and enter <https://omada.tplinkcloud.com> in the address bar. Enter your TP-Link ID and password to log in. Click + Add Controller and choose Hardware Controller to add your controller. Then you can further configure the controller.

For the detailed configurations, refer to the User Guide of the controller and EAPs. The guides can be found on the download center of our official website:

<https://www.tp-link.com/support/download/>.



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



For technical support, the user guide, and other information, please visit <https://www.tp-link.com/support>, or simply scan the QR code.



If you have any suggestions or needs on the product guides, welcome to email techwriter@tp-link.com.cn.

Safety Information

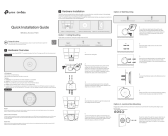
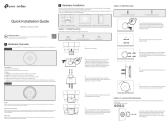
- Keep the device away from water, fire, humidity, or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use the device where wireless devices are not allowed.
- Do not use a damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended.
- The adapter shall be installed near the equipment and shall be easily accessible.



<https://www.tp-link.com/support/setup-video/>

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Documents / Resources

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References

-  [TP-Link](#)
-  [TP-Link Community](#)
-  [Omada Cloud](#)
-  [GPL Code Center | TP-Link](#)
-  [TP-Link Product Support - Wireless Networking Equipment Support](#)
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Manuals+.