Installation Guide

4G+Cat6 AX3000 Outdoor/Indoor Gateway

Note: The image may differ from the actual product.

LED Status

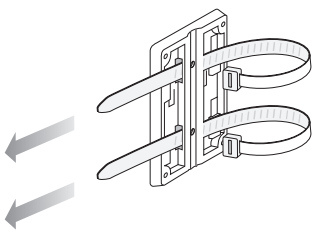
LED	Indication
SYS	Slow Flashing: System is running normally. Quick Flashing: The gateway is being reset. On/Off: System is starting up or running abnormally.
4G Signal	Flashing: SIM card is trying to connect to the internet. On: Indicates the signal strength the gateway received from the mobile internet. More LEDs indicate a better signal strength. Off: No mobile internet signal.
WLAN	On: Wireless networking is enabled. Off: Wireless networking is disabled.
1 (PoE IN)	Yellow On: Running at 1000 Mbps and be powered by 802.3at or Passive PoE or DC Input, but no activity. Yellow Flashing: Running at 1000 Mbps and be powered by 802.3at or Passive PoE or DC Input, and transmitting or receiving data. Green On: Running at 1000Mbps and be powered by 802.3bt, but no activity. Green Flashing: Running at 1000Mbps and be powered by 802.3bt, and transmitting or receiving data. Off: Not running or no device is connected to the corresponding port.
2&3 (PoE OUT)	Yellow On: Running at 1000 Mbps, but no activity. Yellow Flashing: Running at 1000 Mbps, and transmitting or receiving data. Green On: Running at 1000Mbps with providing PoE Power, but no activity. Green Flashing: Running at 1000Mbps with providing PoE Power, and transmitting or receiving data. Off: Not running or no device is connected to the corresponding port.

1 Mounting

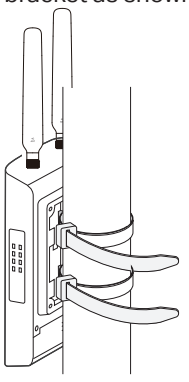
Note: The device can be pole-mounted or wall-mounted. Follow the steps below for the appropriate installation and make sure the device is installed with its ports facing down.

Method 1: Pole Mounting

1. Attach the provided 4G antennas.
2. Lead the end of the pole mounting strap through the back of the mounting bracket.

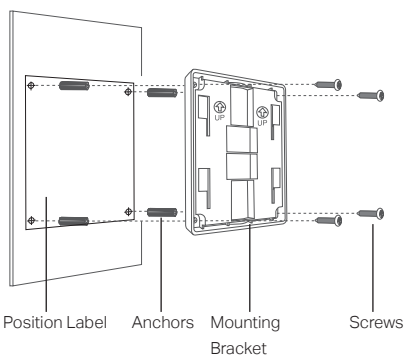


3. Fix the mounting bracket on the pole and fasten the strap, then secure the device into the mounting bracket as shown below.

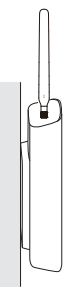


Method 2: Wall Mounting

1. Attach the provided 4G antennas.
2. Attach the mounting template and drill four 6 mm holes, insert the anchors into the holes, align the bracket to the anchors and drive the self-tapping screws into the anchors through the bracket.



3. Align the mounting bracket and the device, and secure the device into the mounting bracket as shown below.



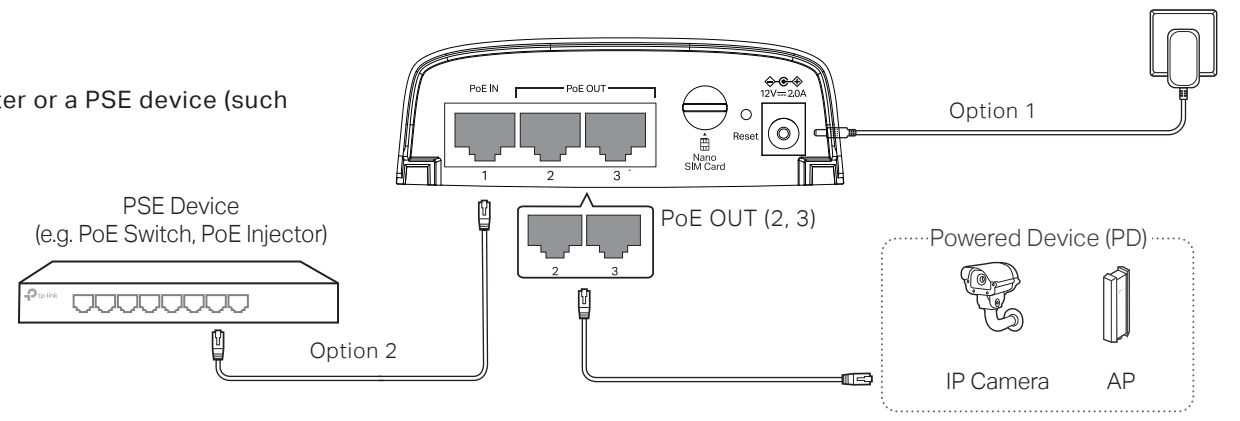
2 Hardware Connection

1. Power on the gateway.

The gateway can be powered via a power adapter or a PSE device (such as a PoE switch).

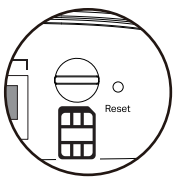
Option 1: Via power adapter (not provided)
Connect the power adapter into the power port of the gateway.

Option 2: Via a PSE device
Connect a PSE device to the PoE IN port.

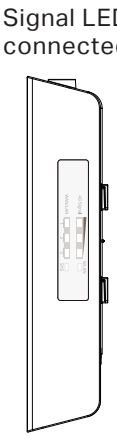


2. Connect to the internet.

a. With the gold contacts facing up, insert the nano SIM card into the slot until you hear a click.



b. Wait until the SYS LED flashes slowly and the 4G Signal LED turns solid, indicating the gateway is connected to the internet.



Note: For better internet connection, make sure 2 or 3 Signal LEDs are lit. Otherwise, try relocating the gateway to a spot that may receive a stronger mobile network signal.

Note: You can also connect the gateway to the internet via Ethernet, but ports 1, 2, and 3 are LAN ports by default and you will need to configure the desired port as a WAN port via the management page first.

3. (Optional) Connect Powered Devices.

Connect the Powered Devices to the PoE OUT ports for power supply and data transmission.

Note:
1. The PoE OUT ports can also be connected to non-PoE devices, but only transmit data.
2. Maximum PoE power is 30 W for each PoE port, and 27W/45 W PoE power budget for all PoE ports when powered by 802.3bt (type 3, 60 W)/ 802.3bt (type 4, 90 W) respectively.
3. PoE budget calculations are based on laboratory testing. Actual PoE power budget is not guaranteed and will vary as a result of client limitations and environmental factors.
4. When the gateway is powered by DC input, it cannot supply power to its connected PD devices.

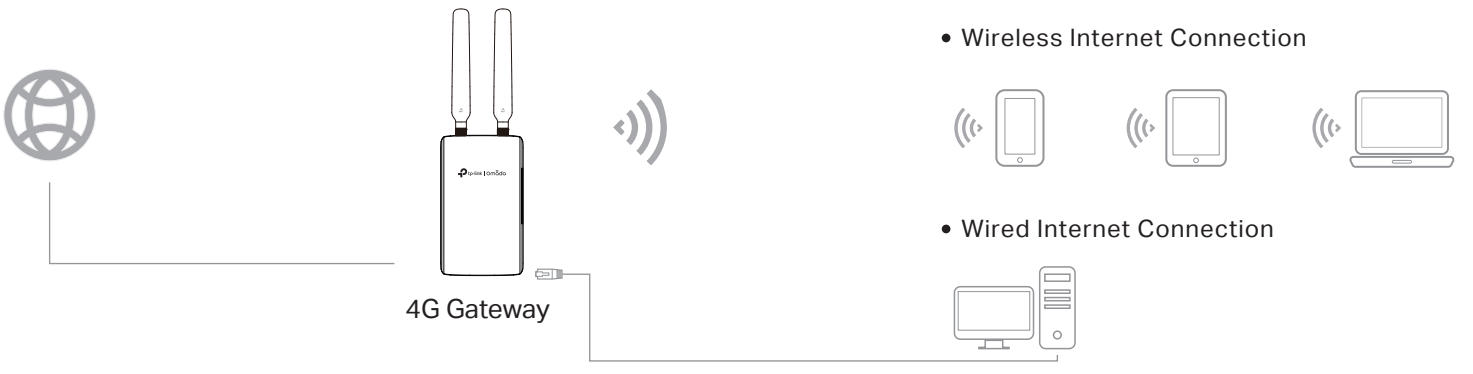
3 Software Configuration

The gateway supports two configuration options:

- Standalone Mode: Configure and manage the gateway by itself.
- Controller Mode: Configure and manage network devices centrally. It is recommended in large-scale networks, which consist of a large number of devices such as access points, switches, and gateways.

Note:
1. When the gateway is managed by a controller, configurations of the gateway will be overridden by the controller.
2. For the detailed configurations, refer to the User Guide of the gateway and the controller. The guides can be found on the download center of our official website: https://www.tp-link.com/support/download/.

Option 1: Standalone Mode



Via Omada App (Wireless Connection Only)

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

Download on the App Store / GET IT ON Google Play or Scan for Omada App → Download Omada App

2. Connect your mobile device to the gateway by using the default SSIDs printed on the label at the bottom of the product.
3. Open the Omada App, and wait for the gateway to appear on the **Standalone Devices > Gateways** page. Tap on your desired gateway to start the configuration.

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 gateway.

Via Web Browser

1. Connect your device to the gateway (wired or wireless).
   Note: If your computer is configured with a fixed IP, change it to **Obtain an IP address automatically**.

   Wired

   Turn off the Wi-Fi on your computer and connect to a LAN port of the gateway with an RJ45 cable.

   Wireless

   a. Find the SSID (network name) printed on the label at the bottom of the gateway.
   b. Click the network icon of your computer or go to Wi-Fi settings of your smart device, and then select the SSID to join the network.
2. Log in to the gateway.
   a. Launch a web browser, and enter **http://tplinker.net** or **http://192.168.0.1** in the address bar.
   b. Create a username and a password for subsequent login attempts and for security.
   c. Use the username and password set above to log in to the webpage.
3. After a successful login, you can configure the functions by clicking the setup menu on the left side of the screen.

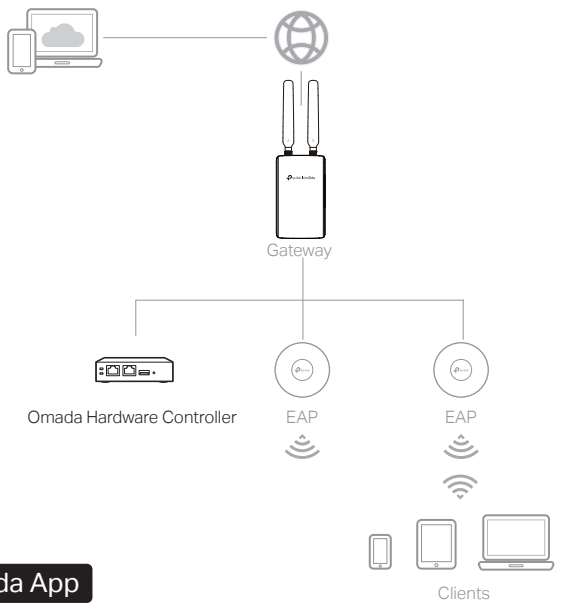
Option 2: Controller Mode

Note: Omada Controller must have network access to your Omada devices in order to find, adopt, and manage them.

• Type 1: Via Omada Hardware Controller

The Omada Hardware Controller (e.g., OC200/OC300, purchased separately) is a good alternative if you have no spare PC to run the Omada Software Controller.

For more details, refer to the Installation Guide of your Omada Hardware Controller.



Via Omada App

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

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

   Local Management

   a. Connect your mobile device to the gateway by using the default SSID printed on the label at the bottom of the product.
   b. 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 network.

   Remote Management

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

   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 network.

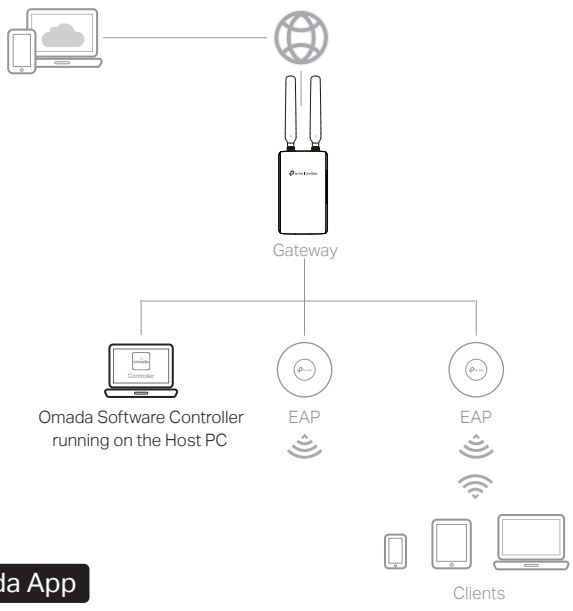
The Omada App is designed to help you quickly configure common settings. If you want to configure advanced settings, use the web page of your gateway.

Via Web Browser

1. As Omada Hardware Controller gets its IP address from the DHCP server of the gateway, we don't know its IP address explicitly. However, we can find it out on the gateway's DHCP client list.
   a. Use a PC (make sure it is set to **Obtain an IP address automatically**) to find the IP address of the gateway. 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 gateway.
   b. Launch a web browser and enter the IP address of the gateway. Create a username and password, and log in to the gateway's web page. 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.
   Note: When configuring the gateway, make sure the ports you select as WAN ports correspond to the real situation.
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 network.
4. **(For Remote Management)** You can remotely access and manage your controller via Omada Cloud Service.
   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 network.

• Type 2: Via Omada Software Controller

The Omada Software Controller is free software for centralized management. To centrally manage your devices, the Omada Software Controller needs to continually run on your computer.



Via Omada App

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

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

   Local Management

   a. Connect your mobile device to the gateway by using the default SSID printed on the label at the bottom of the product.
   b. 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 network.

   Remote Management

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

   a. 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 network.

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 gateway.

Via Web Browser

1. On a PC with Windows OS or Linux OS, download the Omada Software Controller installation file from **https://www.tp-link.com/support/download/omada-software-controller/**.
   Note: To download Omada Software Controller successfully, it is recommended to configure the gateway's network to access the internet. Refer to Standalone Mode to launch the web management page of the gateway, and go to **Network > WAN** to complete the configuration.
2. Run the file and follow the wizard to install the Omada Software Controller.
3. Launch the Omada Software Controller and follow the step-by-step instructions to complete the quick setup.
   Note: When configuring the gateway, make sure the ports you select as WAN ports correspond to the real situation.
4. After the quick setup, the login page appears. Enter the username and password you created and click **Log in**. Then you can further configure the network.

Omada Cloud Portal

After installing Omada Software Controller, you can remotely access the controller through Omada Cloud Portal. Follow the steps below.

a. Enable Cloud Access on the setting page on the controller and bind a TP-Link ID to your controller. If you have configured this in the setup wizard, skip the step.
b. Launch a web browser and enter **https://omada.tplinkcloud.com** in the address bar.
c. 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 network.

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 and other information, please visit **https://www.tp-link.com/support**, or simply scan the QR code.