# tp-link | Omãda

Installation Guide

4G+ Cat6 AX3000 Gigabit VPN Gateway with 4-Port PoE+

Note: The image may differ from the actual product.

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Desktop Installation

1. Remove the adhesive backing papers from the rubber feet.
2. Turnover the device and attach the supplied rubber feet to the bottom of the device to prevent it from slipping when placed on a desktop.
3. Place the device on a flat table.
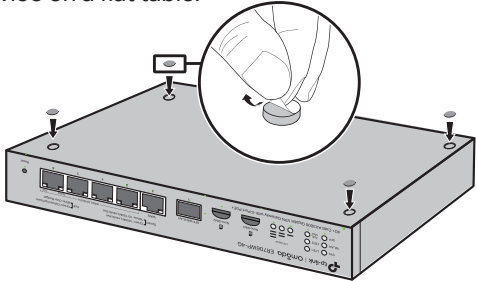
Note: This device also supports wall and rack mounting, but the mounting kit is not provided.
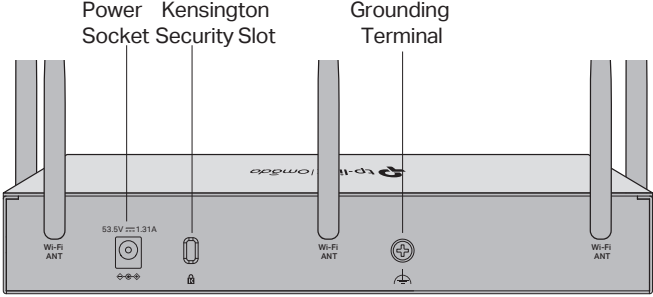
1 Hardware Overview

▪ Front Panel

LED
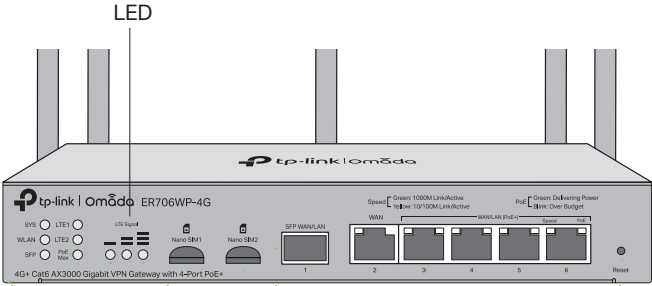
- **Reset:** Press and hold the button for 5 seconds, the SYS LED will flash quickly, indicating the device is being reset to its factory default settings.
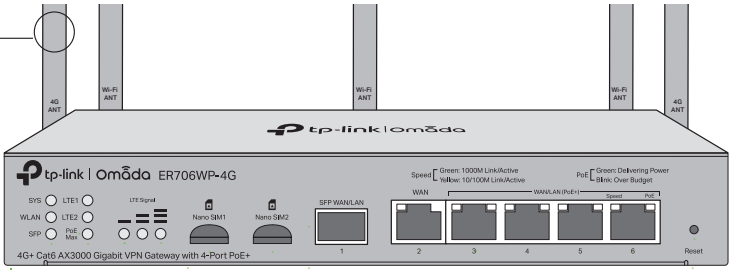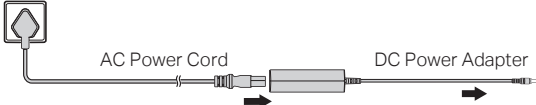
Interface	Description
Nano SIM 1/ Nano SIM 2	The device supports two nano SIM cards, but only one is active for internet at a time while the other is used for network backup.
SFP WAN/LAN	Gigabit SFP WAN/LAN port connecting to an SFP module. By default, it is a WAN port. You can configure it to a LAN port on the management page.
WAN	Gigabit RJ45 WAN port.
WAN/LAN(PoE+) (Ports 3-6)	Gigabit RJ45 WAN/LAN ports. By default, they are LAN ports connecting to local PCs or switches. You can configure each port to a WAN port on the management page.
Kensington Security Slot	Secure the lock (not provided) into the security slot to prevent the device from being stolen.
Grounding Terminal	The gateway already comes with lightning protection mechanism. For detailed lightning protection measures, refer to the Lightning Protection Guide: https://www.tp-link.com/us/configuration-guides/lightning_protection_guide/.
Power Socket	Connect to the power outlet via the provided power adapter.

▪ Back Panel

Power Socket   Kensington Security Slot   Grounding Terminal

Wi-Fi ANT   53.5V ⎓ 1.31A   Wi-Fi ANT   Wi-Fi ANT

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.
WLAN	**On:** Wireless networking is enabled. **Off:** Wireless networking is disabled.
SFP	**On:** Running at 1000 Mbps, but no activity. **Off:** No device is linked to the corresponding port. **Flashing:** Running at 1000 Mbps, and transmitting or receiving data.
LTE1/LTE2	**Off:** No SIM card is detected. **On:** SIM card is detected, but is not connected to the mobile internet. **Quick Flashing:** SIM card is connecting to the mobile internet. **Slow Flashing:** SIM card is connected to the mobile internet. Note: When two SIM cards are inserted, only the LTE LED of the active SIM card will light up, while the LED of the other SIM card will be off.
PoE Max	**On:** The remaining PoE power is ≤ 7 W. **Flashing:** The remaining PoE power keeps ≤ 7 W after this LED is on for 2 minutes. **Off:** The remaining PoE power is > 7 W.
LTE Signal (3 LEDs)	**Flashing:** Connecting to the 4G network. **On:** Indicates the signal strength the gateway received from the mobile internet. More bars indicate a better signal strength. **Off:** No mobile internet signal.
Speed (Ports 2-6)	**Green On:** Running at 1000 Mbps, but no activity. **Green Flashing:** Running at 1000 Mbps and transmitting or receiving data. **Amber On:** Running at 100/10 Mbps, but no activity. **Amber Flashing:** Running at 100/10 Mbps and transmitting or receiving data. **Off:** No device is linked to the corresponding port.
PoE (Ports 3-6)	**Green On:** The port is supplying power normally. **Green Flashing:** Overload or short circuit is detected. **Off:** Not providing PoE power on the port.

2 Hardware Connection

1. **Attach the Wi-Fi antennas and 4G antennas.** Antennas can be distinguished by their markings.
   Note: Make sure you attach the Wi-Fi antennas and 4G antennas to the correct connectors.
2. **Connect to the power source using the provided power adapter.**

AC Power Cord — DC Power Adapter

3. **Connect to the internet using one or multiple options.**

Option 1 Connect to Internet via 4G SIM card

You can insert two SIM cards, but only one is active for internet at a time while the other is used for network backup.

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

Nano SIM1   Nano SIM2   NANO SIM

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

Note: For better internet connection, make sure ▬ or ≡ LTE Signal LED is lit. Otherwise, try relocating the gateway to a spot that may receive a stronger mobile network signal, such as near a window.
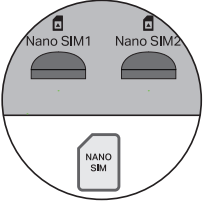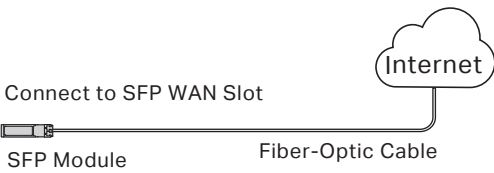
Option 2 Connect to Internet via Ethernet

Modem   Internet
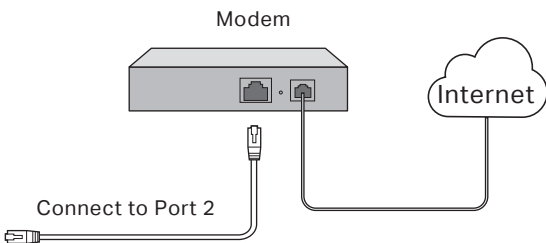
Connect to Port 2

Note: To connect to the internet via another RJ45 WAN port (ports 3-6), configure your desired port to WAN, then connect the port to the internet via an RJ45 cable. Refer to **FAQ-Q1** for more details.

Option 3 Connect to Internet via Fiber

Connect to SFP WAN Slot   Internet

SFP Module   Fiber-Optic Cable

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
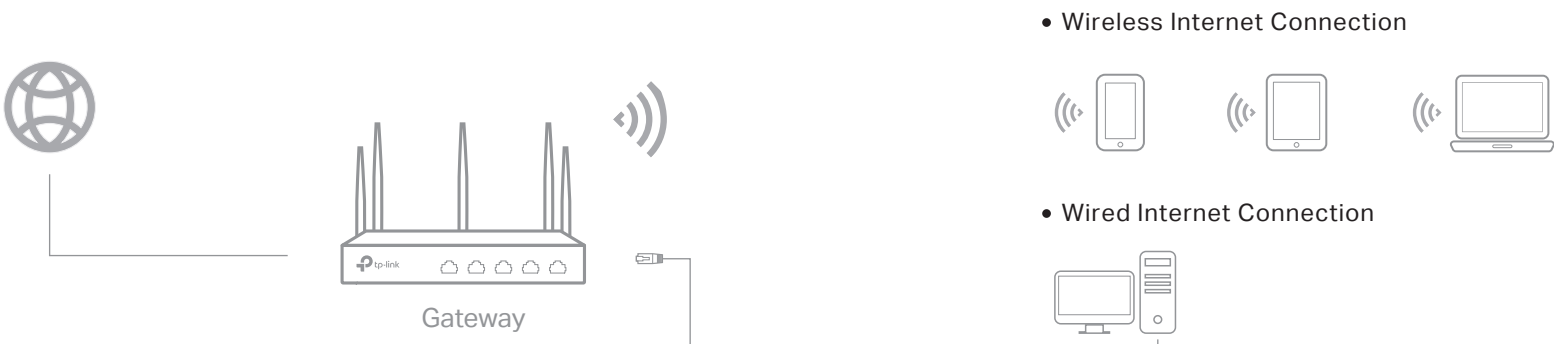
• Wireless Internet Connection

Gateway

• Wired Internet Connection

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

[App Store] [Google Play] or [QR code] Scan for Omada App ➡ [omada] 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.

Note: When configuring the gateway, make sure the ports you select as WAN ports correspond to the real situation.

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 gateway or use Controller Mode.

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.

Gateway
Omada Hardware Controller — EAP — EAP — EAP
Clients

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

[App Store] [Google Play] or [QR code] Scan for Omada App ➡ [omada] Download Omada App

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.

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.

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.
   Note: Make sure the ports you select as WAN ports correspond to the real situation.

• 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.

Gateway
Omada Software Controller running on the Host PC — EAP — EAP — EAP
Clients

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

[App Store] [Google Play] or [QR code] Scan for Omada App ➡ [omada] Download Omada App

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.

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.

Frequently Asked Questions (FAQ)

Q1. What should I do if I want to change the mode of the WAN/LAN ports?

Follow the steps:

1. (Recommended) Refer to the Interface Description table of this guide for the default mode of the WAN/LAN ports.

2. Connect a computer to a LAN port of this gateway. If your computer is configured with a fixed IP address, change it to **Obtain an IP address automatically**.

3. Log in to this gateway's management page at http://192.168.0.1. Go to **Network > WAN > WAN Mode**, change the mode of the WAN/LAN ports by ticking the checkboxes, and click **Save**.

Q2. What should I do if I need to connect this gateway to a modem gateway?

Check the LAN IP address of the modem gateway first. If the LAN IP address of the modem gateway is 192.168.0.1, which is the same as the default LAN IP address of this gateway, follow the steps to change the LAN IP address of this gateway:
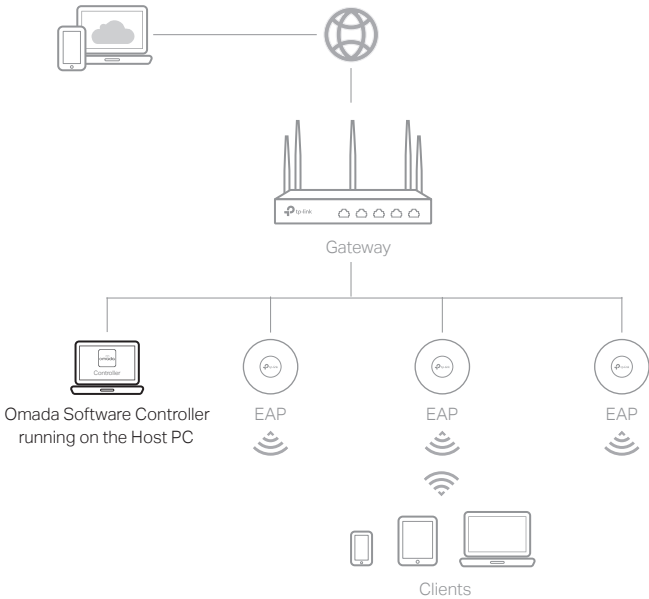
1. Connect a computer to a LAN port of this gateway. If your computer is configured with a fixed IP address, change it to **Obtain an IP address automatically**.

2. Log in to this gateway's management page at http://192.168.0.1, and go to **Network > LAN > LAN**. In the **Network List** section, change the IP address 192.168.0.1 to 192.168.1.1, and click **OK**.

EAC UK CA CE