

# Installation Guide

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

Images may differ from the actual product.

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## More Resources

Main Site	<a href="https://www.omadanetworks.com/">https://www.omadanetworks.com/</a>
Video Center	<a href="https://support.omadanetworks.com/video/">https://support.omadanetworks.com/video/</a>
Documents	<a href="https://support.omadanetworks.com/document/">https://support.omadanetworks.com/document/</a>
Product Support	<a href="https://support.omadanetworks.com/product/">https://support.omadanetworks.com/product/</a>
Technical Support	<a href="https://support.omadanetworks.com/contact-support/">https://support.omadanetworks.com/contact-support/</a>

## Warranty

For details on the warranty period, policy, and procedures, visit <https://support.omadanetworks.com/warranty-services/>.

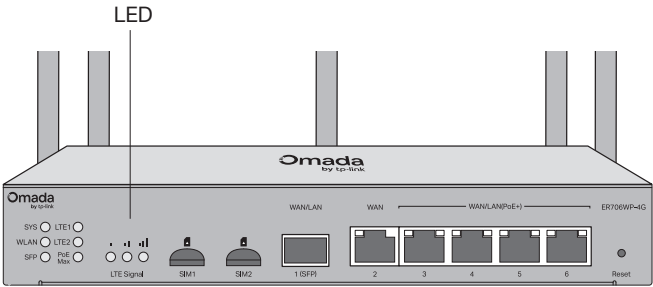
## Support

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



## 1 Hardware Overview

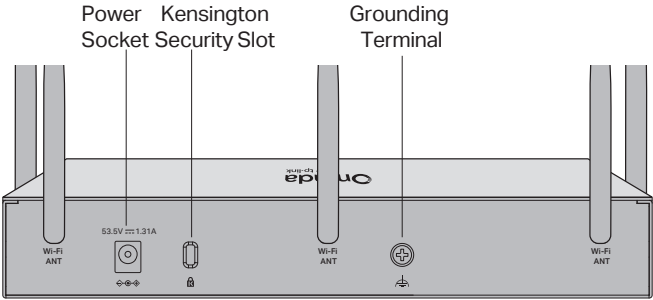
### ▪ Front Panel



- **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. For detailed lightning protection measures, refer to the Lightning Protection Guide: <a href="https://support.omadanetworks.com/r/1004/">https://support.omadanetworks.com/r/1004/</a>
Power Socket	Connect to the power outlet via the provided power adapter.

### ▪ Back Panel



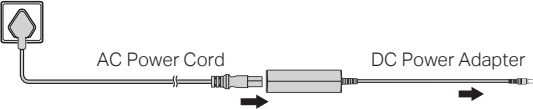
LED	Indication
SYS	Flashing Slowly: System is running normally. Flashing Quickly: The gateway is being reset. On/Off: System is starting up or running abnormally.
WLAN	On: Wireless networking is enabled. Off: Wireless networking is disabled.
SFP	On: Running at 1000 Mbps without activity. Off: No device is linked to the corresponding port. Flashing: Running at 1000 Mbps while 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. Flashing Quickly: SIM card is connecting to the mobile internet. Flashing Slowly: 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 remains ≤ 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 gateway's mobile internet signal strength. More bars mean a stronger signal. Off: No mobile internet signal.
Speed (Ports 2-6)	Green On: Running at 1000 Mbps without activity. Green Flashing: Running at 1000 Mbps and transmitting or receiving data. Amber On: Running at 100/10 Mbps without 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 detected. Off: Not providing PoE power on the port.

## 2 Hardware Connection

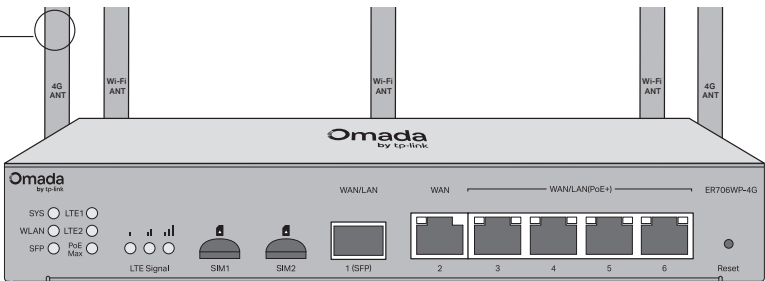
1. Attach the Wi-Fi antennas and 4G antennas. Antennas can be distinguished by their markings.

**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.



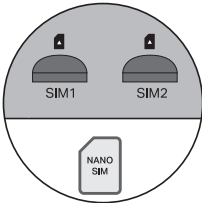
3. Connect to the internet using one or multiple options.



### Option 1: 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.

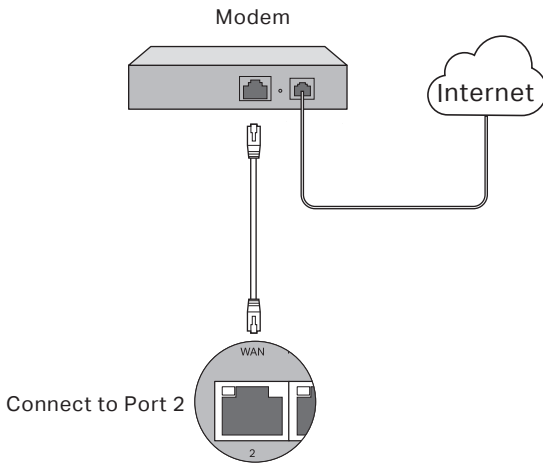
- a. With the gold contacts facing down, insert the nano SIM card into the slot until you hear a click.



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

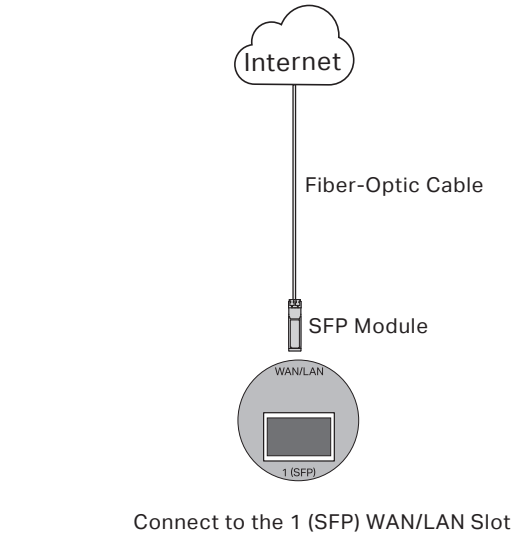
**Note:** For a better internet connection, make sure the LTE Signal LED is lit. Otherwise, try relocating the gateway to a spot that may receive a stronger mobile network signal, such as near a window.

### Option 2: Via Ethernet



**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.

### Option 3: Via Fiber



## 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. This is recommended for large-scale networks, which consist of a large number of Omada wireless gateways and/or Omada devices such as access points and switches.

**Note:**

1. When the gateway is managed by a controller, configurations of the gateway will be overridden by the controller.
2. For detailed configurations, refer to the User Guide of the gateway and the controller. The guides can be found at <https://support.omadanetworks.com/document/>.

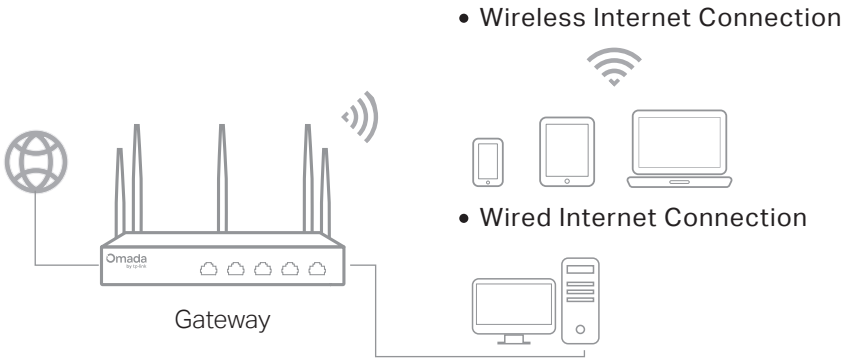
### Option 1: Standalone Mode

1. Connect your device to the gateway with an Ethernet cable or wirelessly using the default SSID (network name) printed on the label at the bottom of the gateway.

**Note:** If your computer is configured with a fixed IP, change it to **Obtain an IP address automatically**.

2. Launch a web browser, enter <https://omadaer.net>, and then follow the web instructions to complete the quick setup.

**Note:** Ensure that the ports you select as WAN ports align with the actual setup.



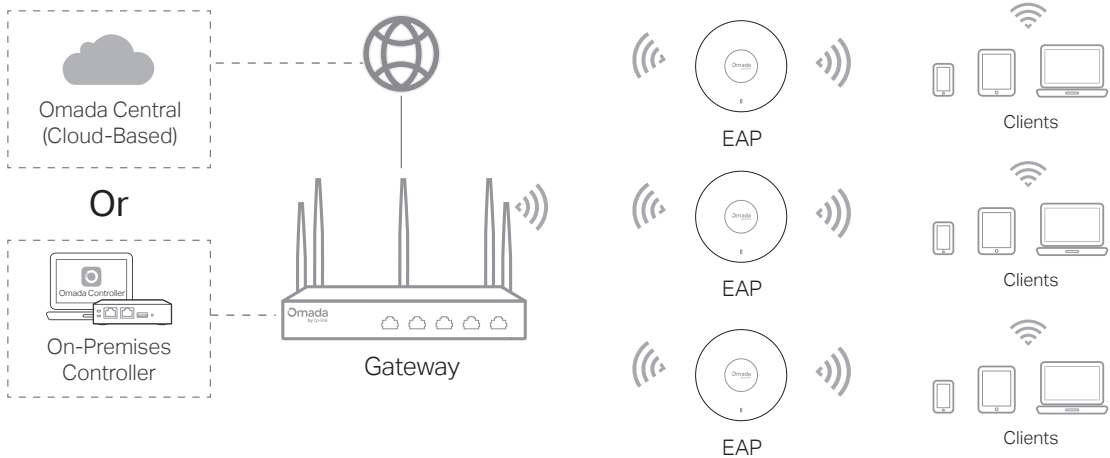
### Option 2: Controller Mode

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

To set up an Omada gateway with an Omada Controller, scan the QR code or refer to the Omada Controller configuration guide at <https://www.omadanetworks.com/support/faq/4096/>.



Scan for Controller Configuration Guide



#### Omada App

With the TP-Link Omada app, you can access and manage your Omada devices at a local site or remotely with a tap of your phone. You can download and install the TP-Link Omada app from the App Store or Google Play.



or



Scan for Omada App



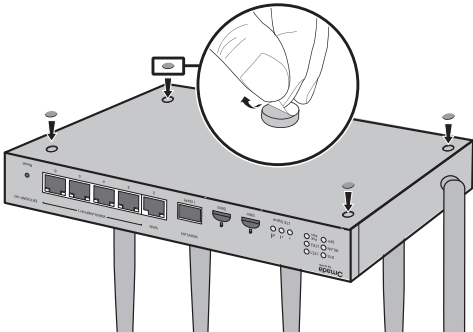
Download Omada App

## 4 Installation

The gateway supports multiple mounting options. Choose the option according to your needs. For wall mounting and rack mounting, you need to purchase mounting accessories.

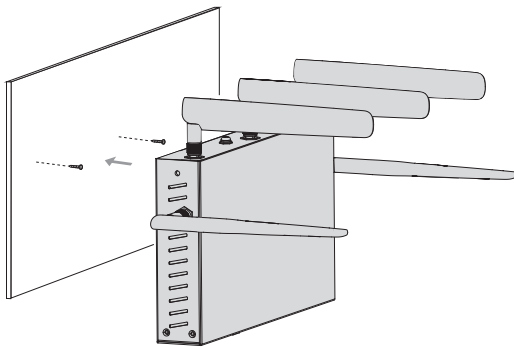
#### Option 1: Desktop Installation

1. Remove the adhesive covers 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.



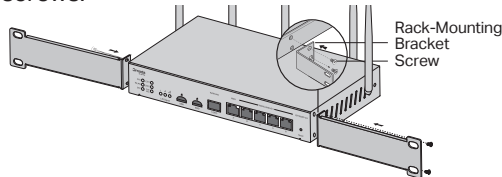
#### Option 2: Wall Mounting

1. Drill two holes on the wall according to the mounting holes on the bottom.
2. Secure the gateway to the wall with two suitable screws (not provided).

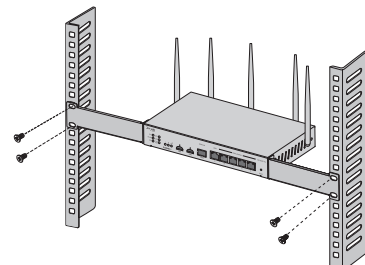


#### Option 3: Rack Mounting

1. Secure the rack-mounting brackets (not provided) to each side of the device with screws.



2. Use suitable screws (not provided) to secure the brackets to the rack.



#### 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 damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended.
- Adapter shall be installed near the equipment and shall be easily accessible.
- Place the device with its bottom surface downward.
- Plug the product into the wall outlets with earthing connection through the power supply cord.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- The PoE ports shall not be used to charge lithium batteries or devices supplied by lithium batteries.

#### EU Declaration of Conformity

TP-Link hereby declares that the Gateway is in compliance with the essential requirements and other relevant provisions of directives 2014/53/EU, 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/>.

#### UK Declaration of Conformity

TP-Link hereby declares that the Gateway 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/>.