EAP Start Guide

 1910013944 REV1.10.0

CONTENTS

About This Guide

Omada offers scenario-based access points (hereinafter referred to as EAPs) for different kinds of environments. This document offers startup guidance for an EAP, including a detailed hardware overview and quick references for hardware installation and software configuration.

Related Documentation

The Quick Installation Guide can be found in the product packaging and on the Product Support page: https://support.omadanetworks.com/product/

The latest Regulatory Compliance document, Omada Access Point User Guide, and Omada Controller User Guide can be found on the Documents page: https://support.omadanetworks.com/document/

More Resources

Main Site	https://www.omadanetworks.com/
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Technical Support	https://support.omadanetworks.com/contact-support/

For technical support, the latest software, and management app, visit https://support.omadanetworks.com/.

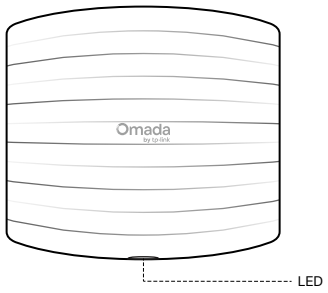
Hardware Overview

This chapter provides a detailed hardware overview of the EAP.

Ceiling Mount Access Point (Wi-Fi 4/Wi-Fi 5)

Front Panel

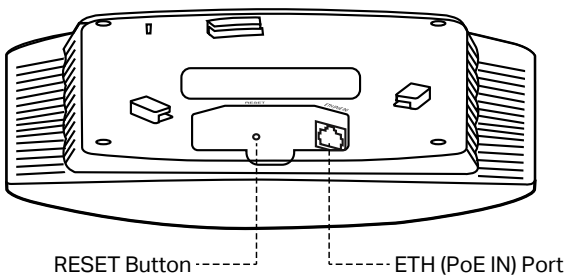
The EAP is equipped with a system LED that indicates the system status on the front panel.



LED Status	Indication
Solid Green	The device is initializing or working properly.
Flashing Green Slowly	The device is in an isolated state.
Flashing Yellow	The device is working abnormally.
Flashing Yellow, Green	The device is updating. Do not disconnect or power off the device.
Quickly Flashing Yellow, Green	The device is being reset to its factory default settings.

Rear Panel

The ports, buttons, and other parts are located on the rear panel and may vary by model.

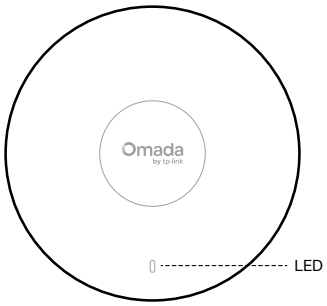


LED Status	Indication
RESET Button	With the device powered on, use a pin to press and hold this button for about 5 seconds until the LED is quickly flashing yellow then green. Then, release the button. The device will restore to its factory default settings.
ETH (PoE IN) Port	Connect to a gateway/router 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) via Ethernet cable.
Power Port	(Only for certain models) Connect to a standard electrical wall outlet via a power adapter to power the EAP.

Ceiling Mount Access Point (Wi-Fi 6/Wi-Fi 7)

Front Panel

The EAP is equipped with a system LED that indicates the system status on the front panel.



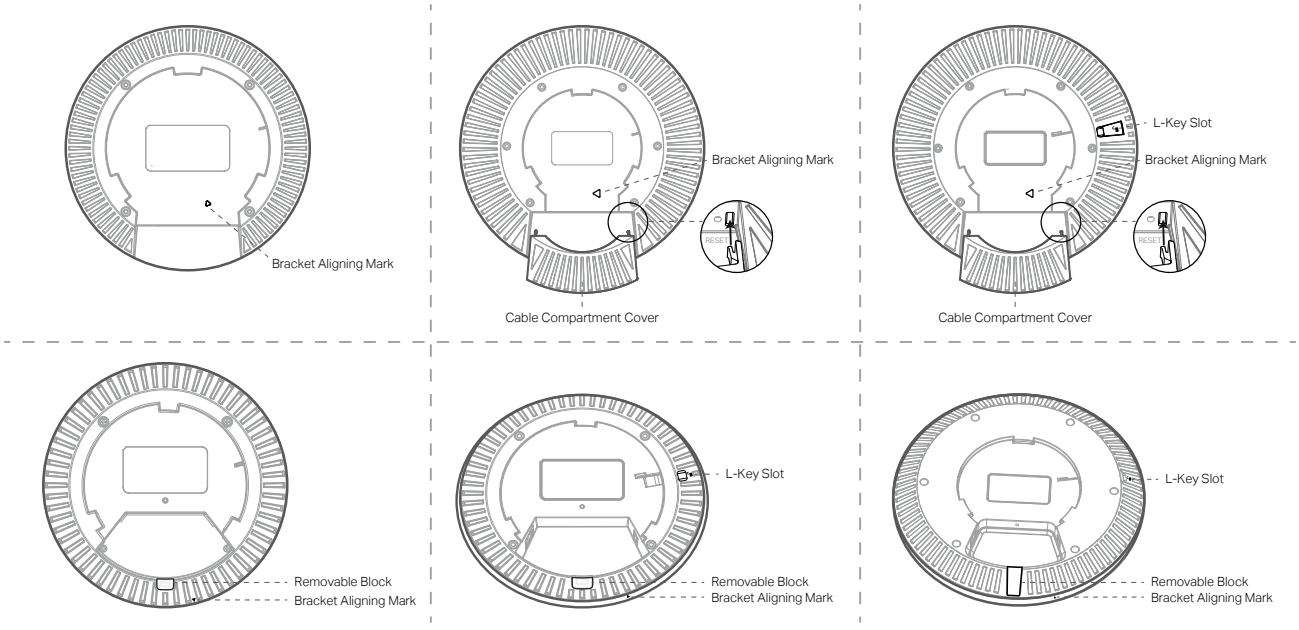
LED Status	Indication
On	• **For EAPs with single-color LED:** Working normally/Initializing. • **For EAPs with dual-color LED:** **Blue:** Normal power supply **Yellow:** Low power supply
Off	Working abnormally/Power off/LED is turned off.
Flashes twice	Initialization is complete.
Flashing quickly	The EAP is resetting, or the Omada controller is locating the device.*
Flashing once per second	The EAP is updating the firmware.

On with periodic off	The EAP is in the isolated state.

* When the Locate feature is activated in the Omada Controller, the LED will flash quickly for 10 minutes to help you locate and identify the device. You can disable this feature manually to stop the device from flashing.

Rear Panel

The ports, buttons, and other parts are located on the rear panel and may vary by model.



Note: For an AP with a Cable Compartment Cover, to avoid device damage, do not insert any objects into the holes for attaching the cover!

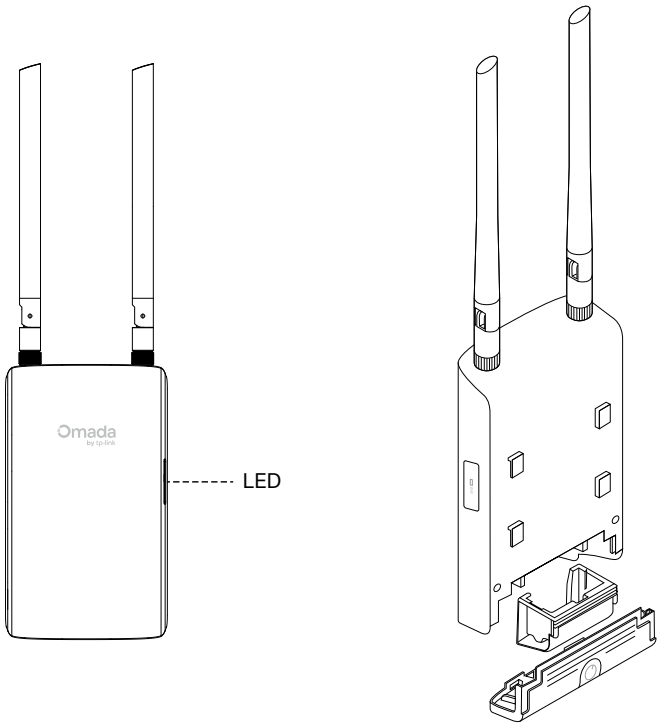
Item	Description
RESET Button	With the device powered on, use a pin to press and hold this button for about 5 seconds until the LED flashes quickly. Then, release the button. The device will restore to its factory default settings.
Ethernet Port (PoE IN)	Connect to a gateway/router or a switch to transmit data or to a PSE (Power Sourcing Equipment), such as a PoE switch, for both data transmission and Power over Ethernet (PoE) via Ethernet cable.
Ethernet Port	(Only for certain models) Connect to a wired device.
Power Port	Connect to a standard electrical wall outlet via a power adapter to power the EAP.
Bracket Aligning Mark	Align the triangle mark to the U gap on the provided mounting bracket, then rotate the AP clockwise to attach it.

L-Key Slot	(Only for certain models) Insert the provided L-Key into the slot , then rotate the AP counterclockwise to unlock it from the mounting bracket.
Cable Compartment Cover	(Only for certain models) Slide the cover to the AP's rear panel for cable concealment.
Removable Block	(Only for certain models) Remove the block to route a cable if needed.

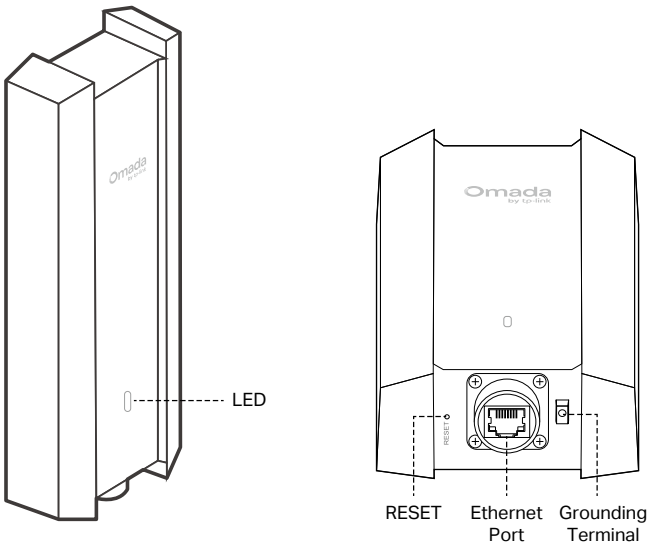
Note: For EAPs with a 10 Gbps port, using a CAT5e cable limits the Ethernet port's 10 Gbps link to less than 55 meters. To achieve longer transmission distances, use a shielded CAT6A cable.

Indoor/Outdoor Access Point

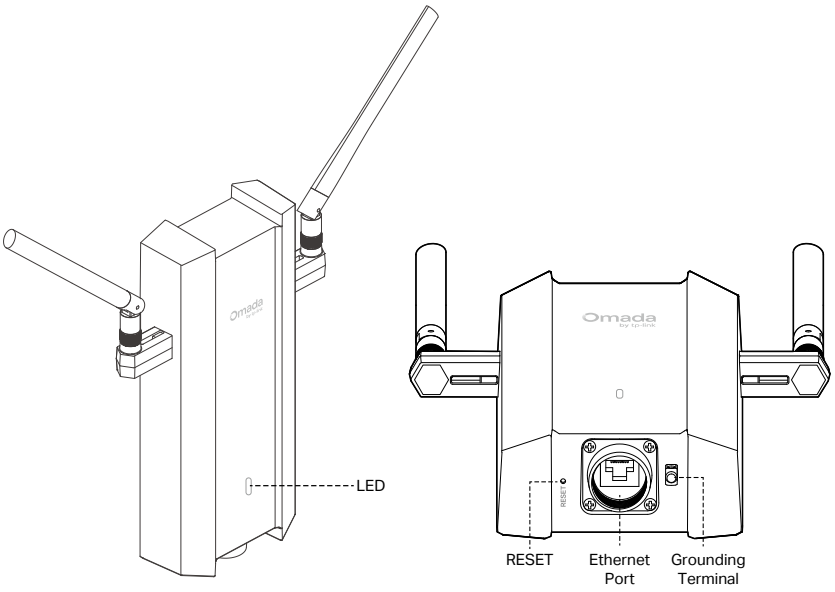
- **EAP603-Outdoor**



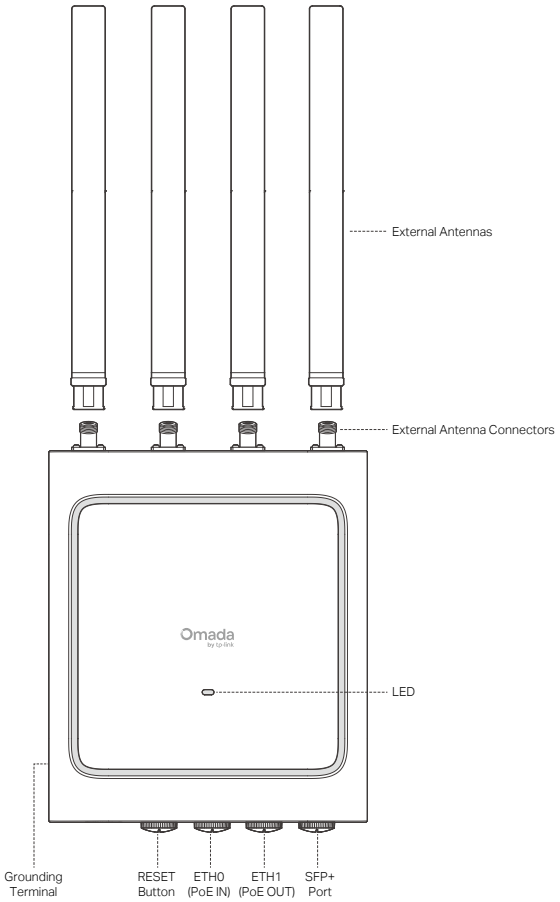
- **EAP610-Outdoor / EAP650-Outdoor**



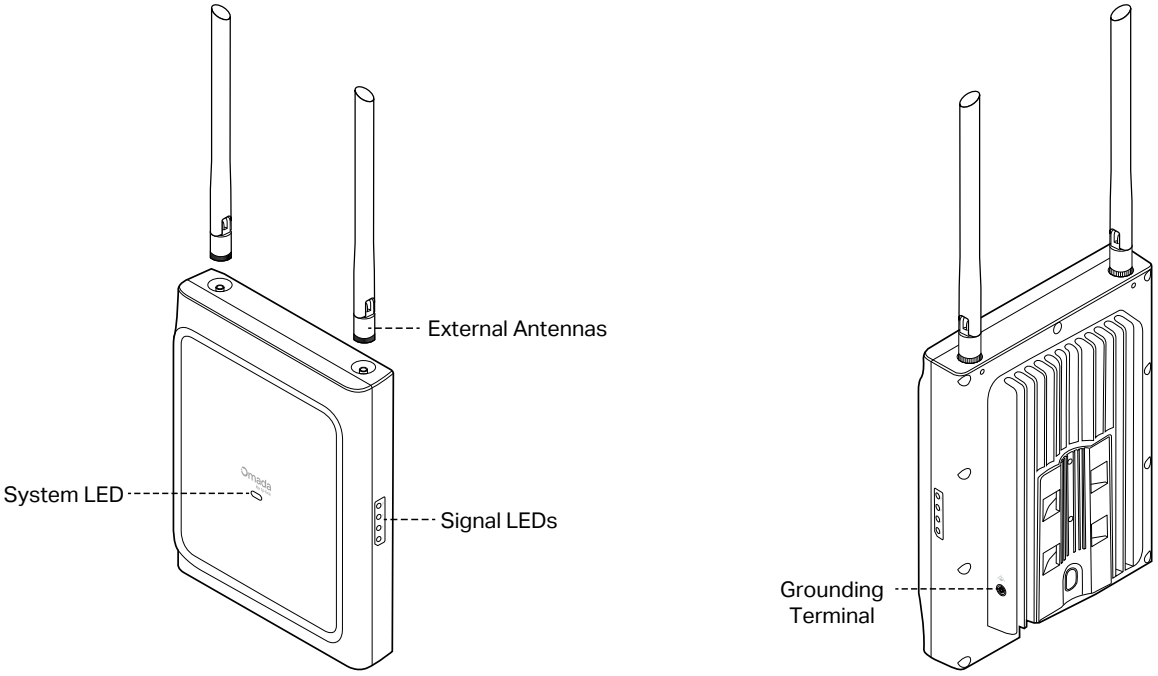
- **EAP625-Outdoor HD**



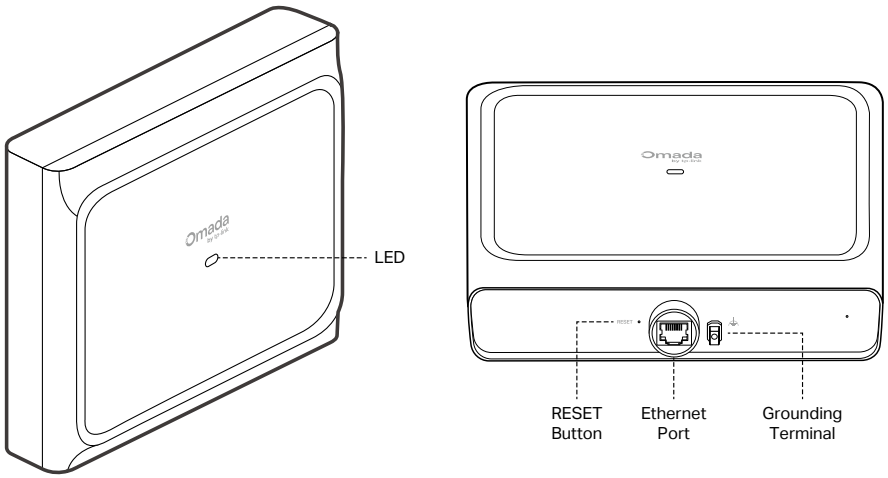
- **EAP668-Outdoor HD**



- **EAP725-Outdoor**



- **EAP650 D30-Outdoor / EAP650 D120-Outdoor / EAP772-Outdoor**



LED Explanation

The EAP is equipped with a system LED that indicates the system status on the front or side panel. Some models may have signal LEDs at the side panel.

- **System LED**

LED Status	Indication
Flashes twice	Initialization is complete.

Solid green	The device is initializing or working properly.
Orange	(Only for certain models) Power supply is insufficient.
Flashing yellow/ orange/ Off (Vary by model)	System errors. RAM, Flash, Ethernet, WLAN, or firmware may be malfunctioning.
Slowly flashing	Firmware update is in progress. Do not disconnect or power off the device.
Quickly flashing	The device is being located or being reset to its factory settings.
On with periodic off	The device is in an isolated state.

- **Signal LEDs (Only for certain models)**

LED Status	Indication
Off	The device works as the root AP.
On	The device works as the mesh AP. More lit LEDs indicates better wireless signal strength.

Buttons & Ports

The ports and buttons are located on the bottom and may vary by model.

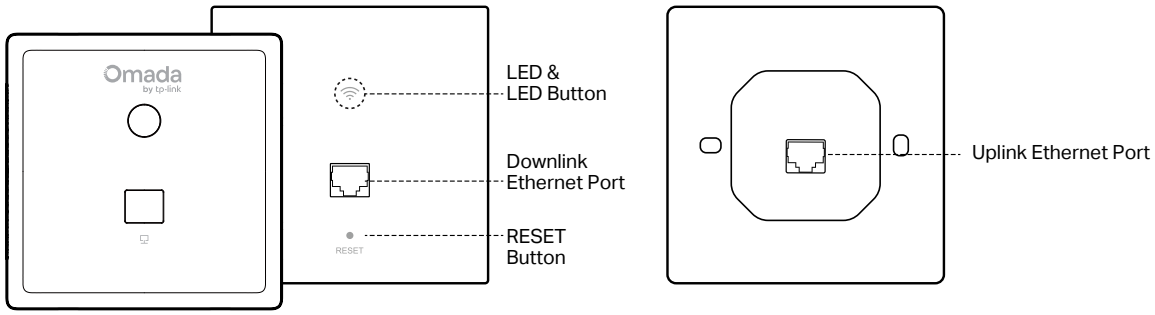
Item	Description
RESET Button	With the EAP powered on, press and hold for about 5 seconds to reset the AP to its factory default settings.
Grounding Terminal	Connect to grounding facilities for lightning and ESD protection.

Ethernet Port(s)	(For single-port models) Connect to a PSE (Power Sourcing Equipment), such as a PoE switch, for both data transmission and Power over Ethernet (PoE) through Ethernet cable.
	(For multi-port models) **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 PoE power.
SFP+ Port	(Only for certain models) Connect to an SFP module to transmit optical signals.
External Antenna Connectors	(Only for certain models) Connect to external antennas if needed.

Wall Plate Access Point

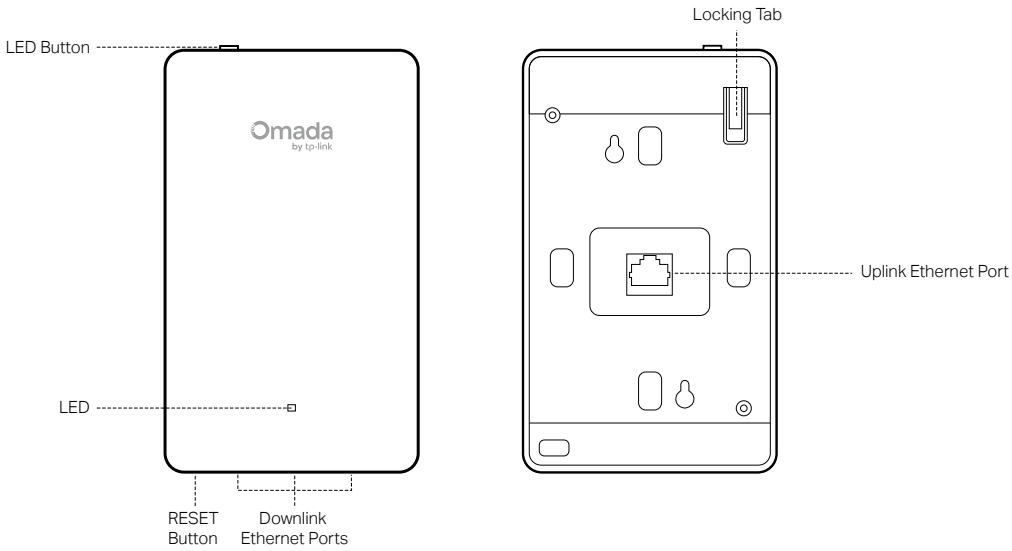
The EAP is equipped with a system LED that indicates the system status on the front panel. The port and button locations may vary by model.

- **EAP230-Wall**

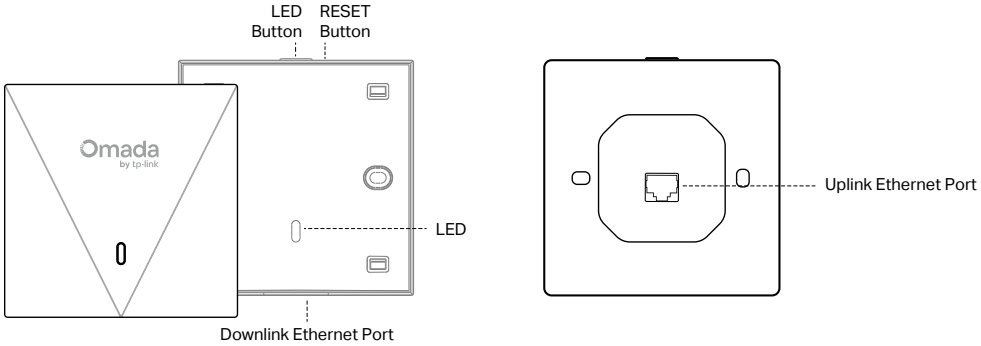


Faceplate Body Rear Panel

- **EAP235-Wall / EAP615-Wall**

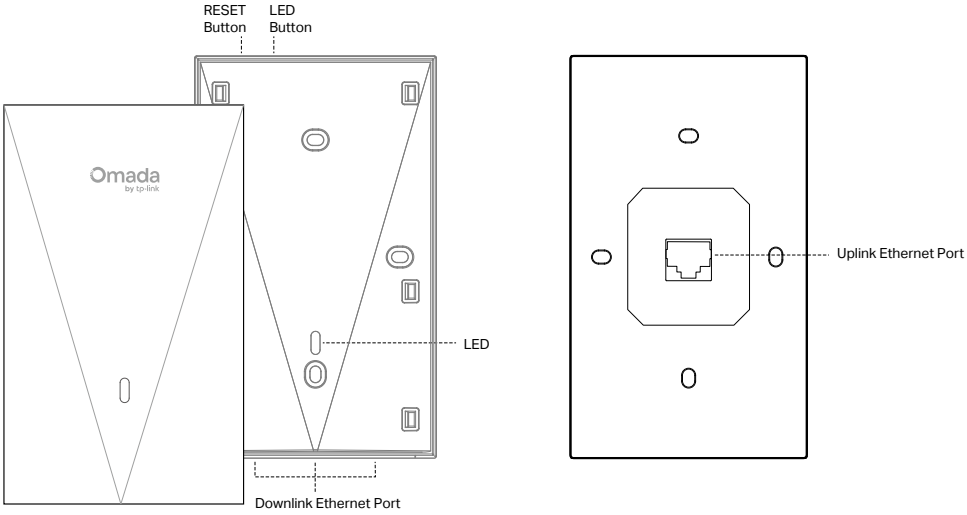


- **EAP650-Wall**



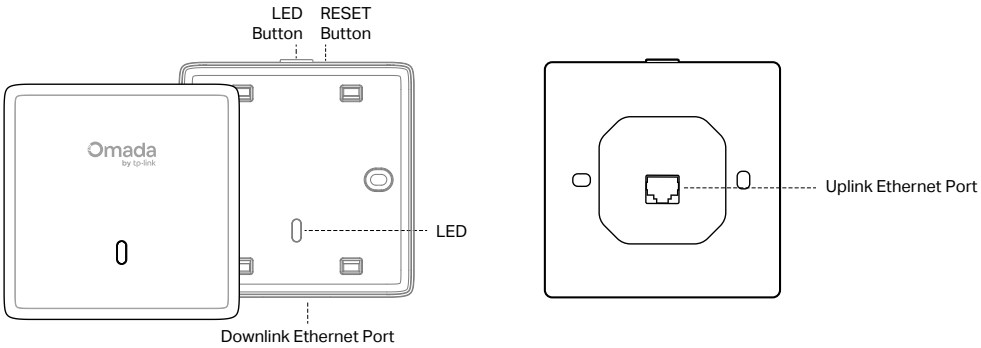
Faceplate Body Rear Panel

- **EAP655-Wall**



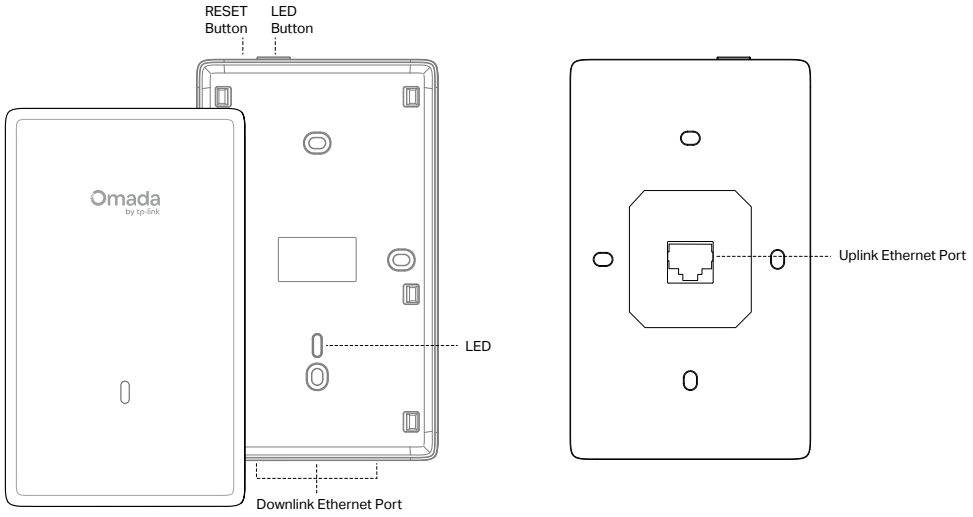
Faceplate Body Rear Panel

- **EAP720-Wall**

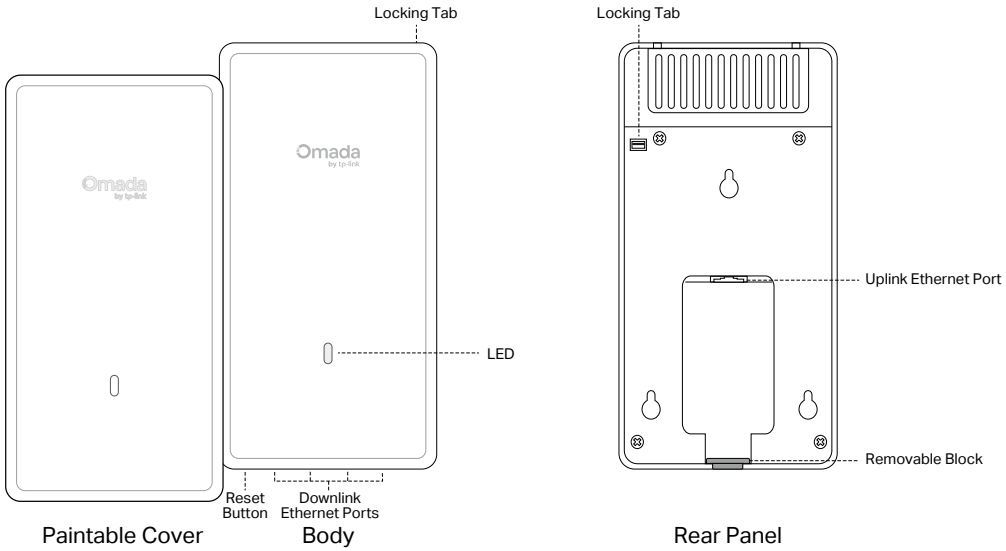


Faceplate Body Rear Panel

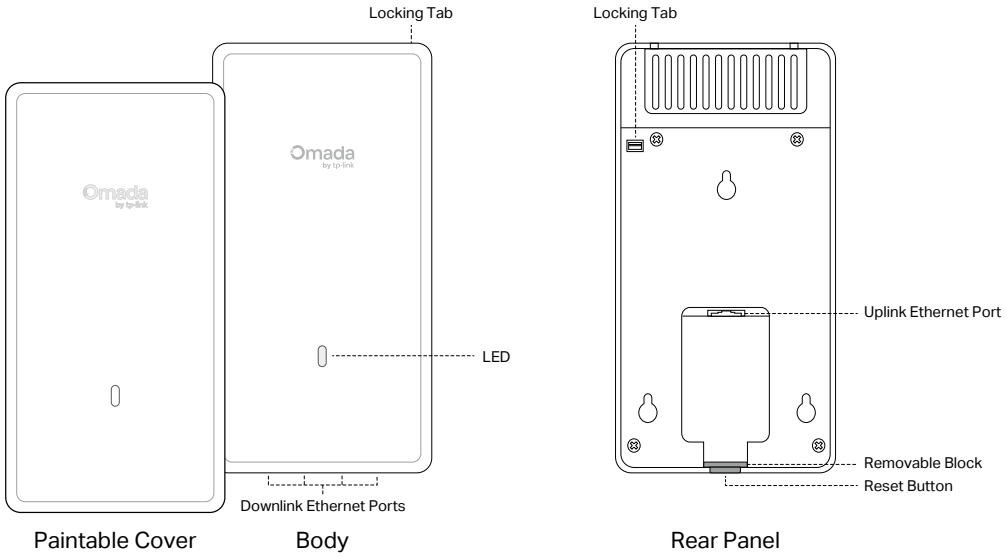
- **EAP725-Wall v1**



- **EAP725-Wall v2**



- **EAP775-Wall**



LED Explanation

LED Status	Indication
On	• **For EAPs with single-color LED:** Working normally/Initializing. • **For EAPs with dual-color LED:** **White:** Normal power supply **Orange:** Low power supply
Off	Working abnormally/Power off/LED is turned off.
Flashes twice	Initialization is complete.
Flashing quickly	The EAP is resetting, or the Omada controller is locating the device.*
Flashing once per second	The EAP is updating the firmware.
On with periodic off	(Only for EAPs supporting Omada Mesh) The EAP is in the isolated state.

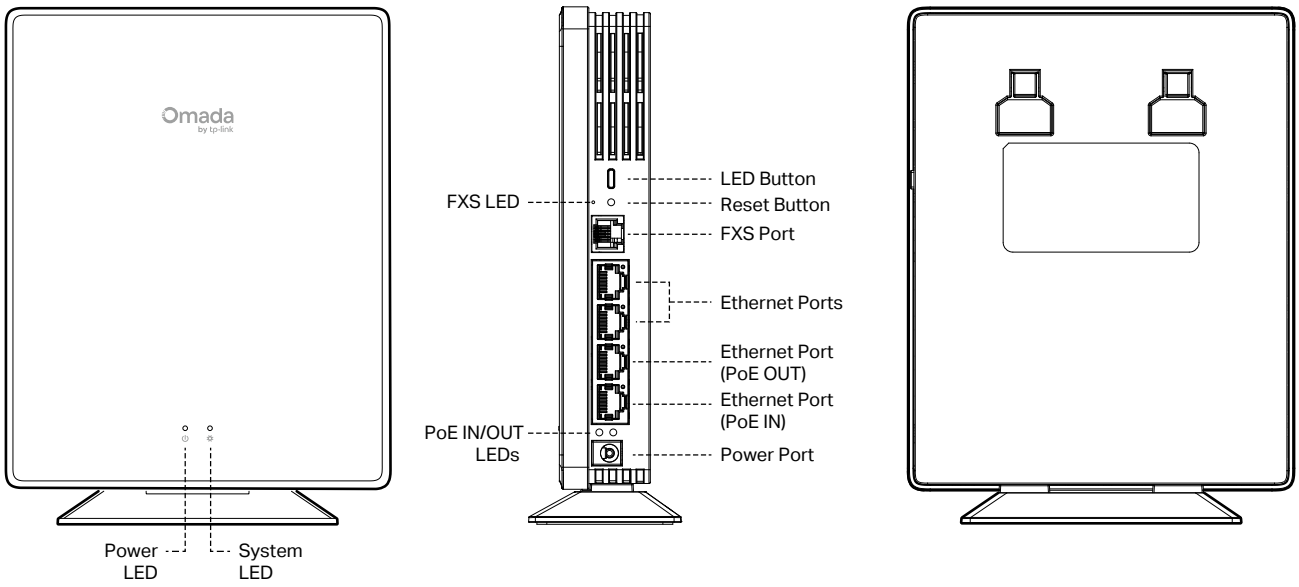
* When the Locate feature is activated in the Omada Controller, the LED will flash quickly for 10 minutes to help you locate and identify the device. You can disable this feature manually to stop the device from flashing.

Buttons & Ports

Item	Description
LED Button	(Only for certain models) When the EAP is enabled with Wi-Fi Control, press this button to turn on/off both the Wi-Fi and LED. In other cases, press this button to turn the LED on/off.
Reset Button	With the device powered on, press and hold this button for about 5 seconds until the LED flashes quickly. Then, release the button. The device will restore to its factory default settings.
Uplink Ethernet Port	Connect to a PSE (Power Sourcing Equipment), such as a PoE switch, for both data transmission and power supply.
Downlink Ethernet Port(s)	ETH: (Only for certain models) Connect to a wired device. ETH (PoE OUT): (Only for certain models) Connect to a client device to transmit data and supply PoE power.
Locking Tab	(Only for certain models) Used to lock the EAP after it is installed. To uninstall, insert a paper clip or L-Key into the slot to release the Locking Tab.
Removable Block	(Only for certain models) Remove the block to route a cable if needed.

Desktop Access Point

The Desktop AP is equipped with a power LED and a system LED on the front panel. The ports and buttons are located on the side and rear panels and may vary by model.



LED Explanation

LED	Indication
Power LED	**Blue On:** Power supply is normal. **Flash Orange:** Power supply is insufficient. **Off:** Power is off, or LEDs are turned off.
System LED	**On:** The EAP is initializing or working normally. **Off:** The EAP is working abnormally. **Flash:** • **Flash Twice:** Initialization is complete. • **Flash Once per Second:** The EAP is upgrading or resetting. • **Quick Flash:** The Controller is locating the EAP.* • **Sustained Flash:** The EAP is in the isolated state.
FXS LED	**On:** The SIP account is registered successfully. **Flashing slowly:** The phone is off the hook. **Flashing quickly:** The phone is ringing. **Off:** No SIP account is registered.
Link/Act LEDs (For ETH Ports)	**On:** The port is linked but has no activity. **Flashing:** The port is transmitting or receiving data. **Off:** The port is not linked.

PoE IN (ETH0)	**Green On:** The port is receiving 802.3bt PoE power. **Orange On:** The port is receiving non-802.3bt PoE power**. **Off:** The port is not connected or not receiving PoE power.
PoE OUT (ETH1)	**On:** The port is supplying power to a PoE powered device. **Off:** The port is not connected or not supplying power.

* When the Locate feature is activated in the Omada Controller, the LED will flash quickly for 10 minutes to help you locate and identify the device. You can disable this feature manually to stop the device from flashing.

** 802.3at/bt PoE input is required. 802.3af and passive PoE inputs will disable 5 GHz band and PoE output and thus not recommended.

Buttons & Ports

Button	Description
RESET Button	With the EAP powered on, press and hold the button for about 5 seconds until the Power LED flashes, then release the button. The EAP will restore to its factory settings.
LED Button	Press the button to turn on/off the LEDs.

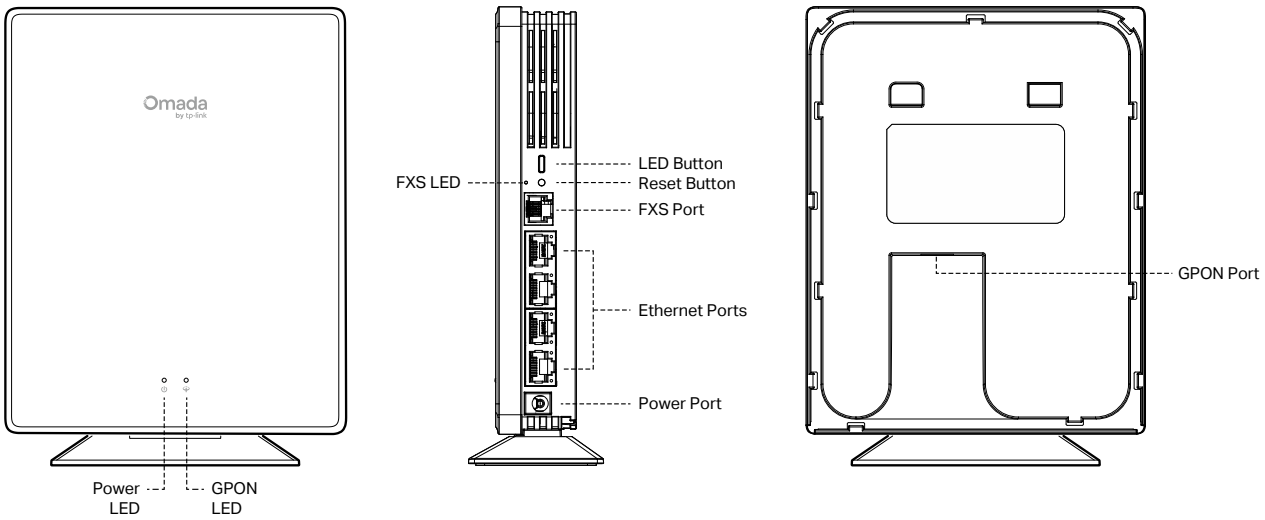
Port	Description
FXS Port	Connect to a phone to make and receive calls over the internet.
ETH Ports	Connect to a client device to transmit data.
ETH (PoE IN) Port	Connect to a power sourcing equipment for both data transmission and PoE input**.
ETH (PoE OUT) Port	Connect to a PoE powered device for both data transmission and PoE output***.
Power Port	Connect to a power socket via the provided power adapter.

** 802.3at/bt PoE input is required. 802.3af and passive PoE inputs will disable 5 GHz band and PoE output and thus not recommended.

*** The device can supply PoE output power only when it is receiving 802.3at/bt PoE input power.

GPON Access Point (Desktop)

The Desktop GPON AP is equipped with a power LED and a GPON LED on the front panel. The ports and buttons are located on the side and rear panels and may vary by model.



LED Explanation

LED	Indication
Power LED	**On:** The EAP is initializing or working normally. **Off:** The EAP is working abnormally, power is off, or LEDs are turned off. **Flashing:** • **Flashes twice:** Initialization is complete. • **Flashes once per second:** The EAP is upgrading. • **Flashing quickly:** The EAP is resetting or the Controller is locating the EAP.* • **Flashing slowly:** The EAP is in the isolated state.
GPON LED	**Solid green:** The EAP is registered with the OLT. **Flashes green:** The EAP is trying to register with the OLT. **Flashes red:** No optical signal is received or the received signal is too weak. **Solid red:** The EAP is blocked by the OLT or not transmitting an optical signal. **Off:** The EAP is initializing or works as a mesh AP.
FXS LED	**On:** The SIP account is registered successfully. **Flashing slowly:** The phone is off the hook. **Flashing quickly:** The phone is ringing. **Off:** No SIP account is registered.
Link/Act LEDs (For ETH Ports)	**On:** The port is linked but has no activity. **Flashing:** The port is transmitting or receiving data. **Off:** The port is not linked.

* When the Locate feature is activated in the Omada Controller, the LED will flash quickly for 10 minutes to help you locate and identify the device. You can disable this feature manually to stop the device from flashing.

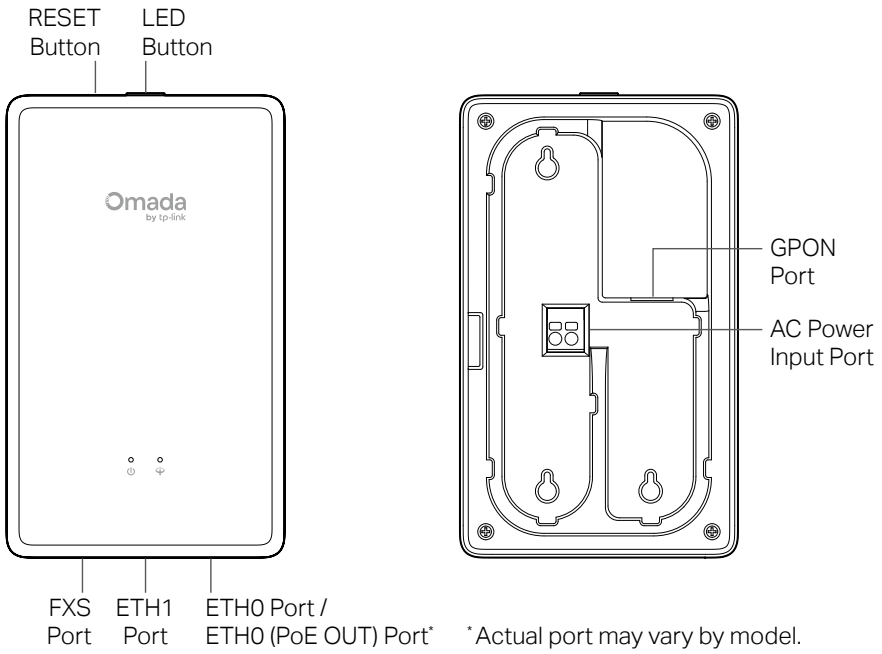
Buttons & Ports

Button	Description
RESET Button	With the EAP powered on, press and hold the button for about 5 seconds until the Power LED flashes, then release the button. The EAP will restore to its factory settings.
LED Button	Press the button to turn on/off the LEDs.

Port	Description
FXS Port	Connect to a phone to make and receive calls over the internet.
ETH Ports	Connect to a client device to transmit data.
ETH (PoE OUT) Ports	(Only for certain models) Connect to a client device to transmit data and supply PoE power.
Power Port	Connect to a power socket via the provided power adapter.
GPON Port	Connect to fiber to transmit optical signals.

GPON Access Point (Wall Plate)

The Wall Plate GPON AP is equipped with a power LED and a GPON LED on the front panel. The ports and buttons are located on the side and rear panels and may vary by model.



*Actual port may vary by model.

LED Explanation

LED	Indication
Power LED	**On:** The EAP is initializing or working normally. **Off:** The EAP is working abnormally, power is off, or LEDs are turned off. **Flashing:** • **Flashes twice:** Initialization is complete. • **Flashes once per second:** The EAP is upgrading. • **Flashing quickly:** The EAP is resetting or the Controller is locating the EAP.* • **Flashing slowly:** The EAP is in the isolated state.
GPON LED	**Solid green:** The EAP is registered with the OLT. **Flashes green:** The EAP is trying to register with the OLT. **Flashes red:** No optical signal is received or the received signal is too weak. **Solid red:** The EAP is blocked by the OLT or not transmitting an optical signal. **Off:** The EAP is initializing or works as a mesh AP.

* When the Locate feature is activated in the Omada Controller, the LED will flash quickly for 10 minutes to help you locate and identify the device. You can disable this feature manually to stop the device from flashing.

Buttons & Ports

Button	Description
RESET Button	With the EAP powered on, press and hold the button for about 5 seconds until the Power LED flashes, then release the button. The EAP will restore to its factory settings.
LED Button	Press the button to turn on/off the LEDs.

Port	Description
FXS Port	Connect to a phone to make and receive calls over the internet.
ETH Port	Connect to a client device to transmit data.
ETH (PoE OUT) Port	(Only for certain models) Connect to a client device to transmit data and supply PoE power.
GPON Port	Connect to fiber to transmit optical signals.
AC Power Input	Connect to the power supply via AC power cable.

Hardware Installation

Omada offers scenario-based EAPs for different kinds of environments. This chapter provides quick references for hardware installation.

Ceiling Mount Access Point

The Ceiling Mount Access Point can be mounted to a ceiling, wall, or junction box. You can follow the Quick Installation Guide to install the EAP using the accessories in the product packaging.

The Quick Installation Guide can be found in the product packaging and on the Support page of your model at https://www.omadanetworks.com/business-networking/omada-wifi-ceiling-mount/.

Indoor/Outdoor Access Point

The Indoor/Outdoor Access Point can be mounted to an outdoor wall or pole for outdoor Wi-Fi coverage. Long-range indoor Wi-Fi coverage is also applicable.

The Quick Installation Guide can be found in the product packaging and on the Support page of your model at https://www.omadanetworks.com/business-networking/omada-wifi-outdoor/.

Wall Plate Access Point

The Wall Plate Access Point can be installed directly into wall junction boxes for a seamless Wi-Fi network in each room, ideal for hotels, dormitories, apartments, villas, and meeting rooms.

The Quick Installation Guide can be found in the product packaging and on the Support page of your model at https://www.omadanetworks.com/business-networking/omada-wifi-wall-plate/.

Desktop Access Points

The Desktop Access Point provides flexible installation solutions for both desktop and wall mounting, ideal for versatile business environments such as retails, offices, and hotels.

The Quick Installation Guide can be found in the product packaging and on the Support page of your model at https://www.omadanetworks.com/business-networking/omada-wifi-desktop/.

GPON Access Points

The GPON Access Point provides flexible installation solutions for both desktop and wall mounting and integrates into the Omada Optical Networking Solution for wired, wireless, voice, VoIP, data, and HD video services, perfect for PtMP (point-to-multipoint environments like hotels and MDUs).

The Quick Installation Guide can be found in the product packaging and on the Support page of your model at https://www.omadanetworks.com/business-networking/omada-wifi-gpon/.

Software Configuration

Omada EAPs offer wireless coverage solutions for small to medium-sized businesses and households. They can work independently as standalone APs or be centrally managed via an Omada Controller, delivering a flexible, feature-rich, and easy-to-configure wireless network.

Get Started

Choose a method to set up your EAPs:

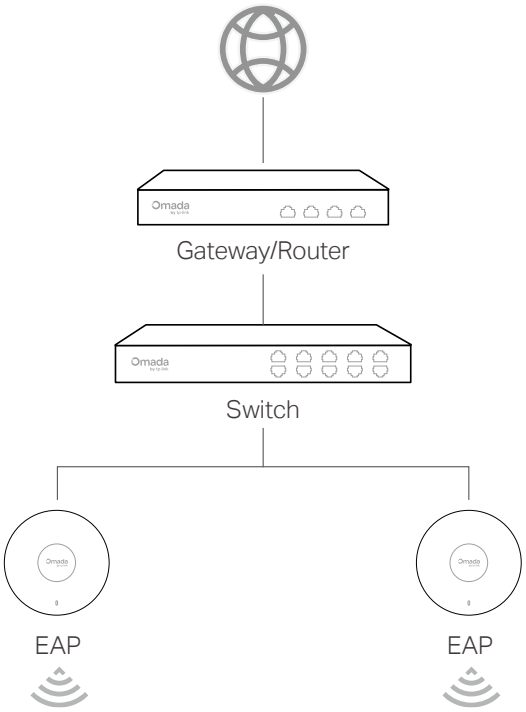
- **Method 1: Standalone Mode**

Configure and manage each EAP on its standalone page.

For instructions on how to get started with a standalone EAP, refer to https://www.omadanetworks.com/support/faq/4097/.

Typical topology of common EAPs:

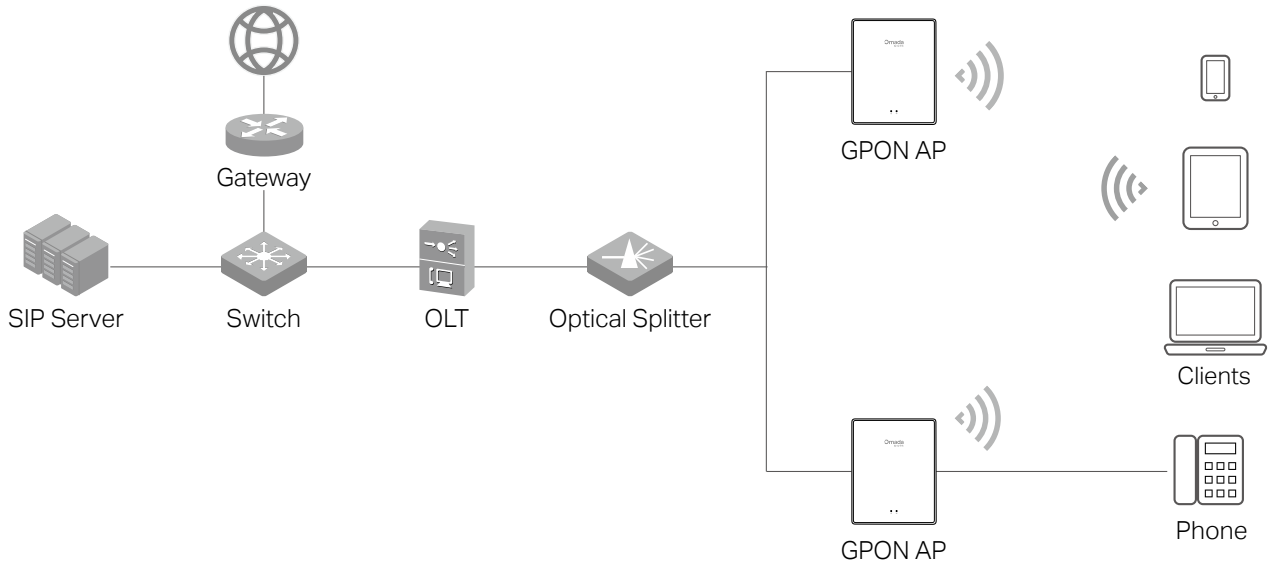
Note: The figure below uses the Ceiling Mount Access Point for demonstration. Other types of EAPs can be used in a similar manner.



Typical topology of GPON EAPs:

Notes:

- The figure below uses the Desktop GPON Access Point for demonstration. Other types of EAPs can be used in a similar manner.
- If you want to make phone calls over the internet, set up the telephone number on the Telephony page of the EAP's standalone page. For detailed instructions, refer to the User Guide of the Access Point at: https://support.omadanetworks.com/document/



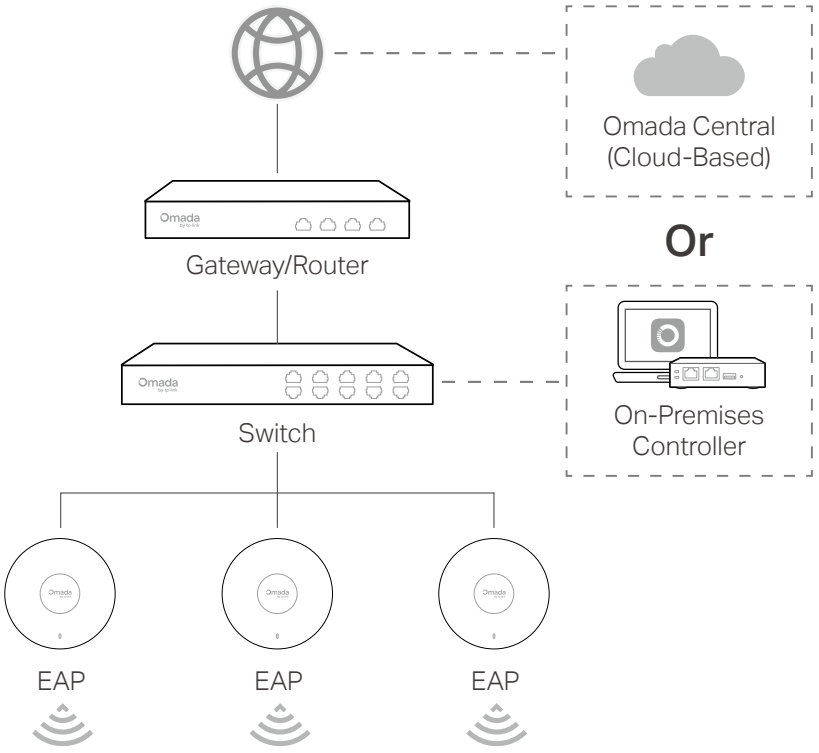
- **Method 2: Controller Mode**

Configure and manage EAPs (and other Omada devices) centrally with an Omada Controller.

For instructions on how to get started with an Omada Controller, refer to https://www.omadanetworks.com/support/faq/4096/.

Typical topology of common EAPs:

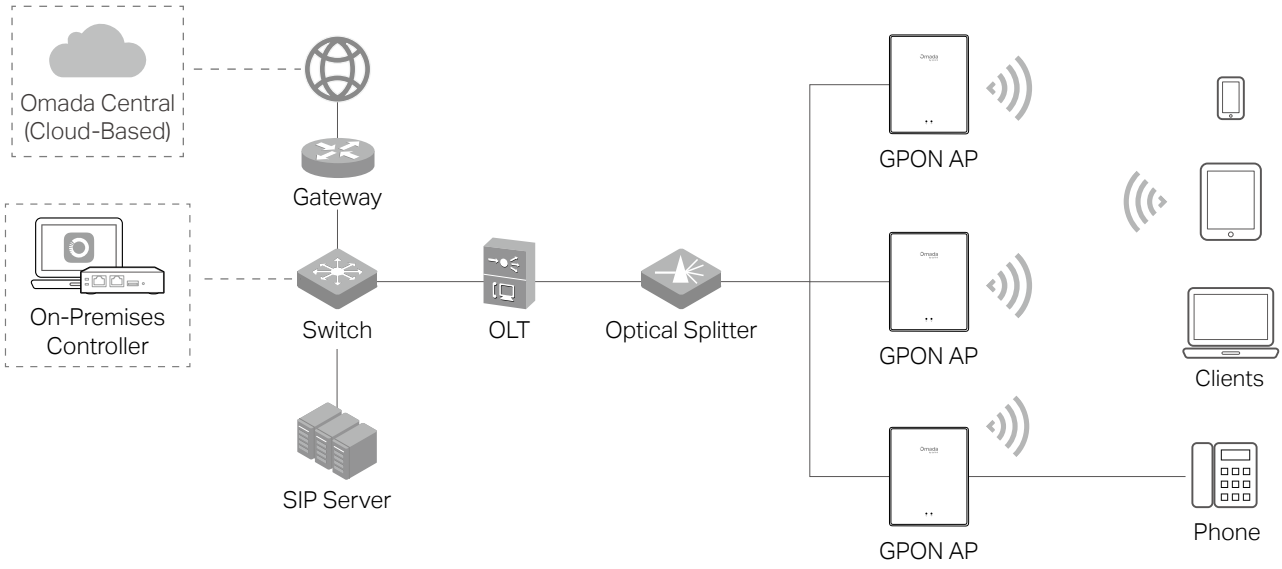
Note: The figure below uses the Ceiling Mount Access Point for demonstration. Other types of EAPs can be used in a similar manner.



Typical topology of GPON EAPs:

Notes:

- The figure below uses the Desktop GPON Access Point for demonstration. Other types of EAPs can be used in a similar manner.
- If you want to make phone calls over the internet, set up the telephone number on the VoIP page of the controller. For detailed instructions, refer to the User Guide of the Omada Controller at: https://support.omadanetworks.com/document/



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.

More Configurations

For more configurations, refer to the User Guides of the Controller and EAPs on the Documents page: https://support.omadanetworks.com/document/