Omada by tp-link

Installation Guide

Omada 2.5G PoE++ Easy Managed Switch

The images in this guide are for demonstration only and may differ from your actual product.

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

LED Explanation

LED	Explanation
Power	**On/Off:** Power on/off
Link/Act (For ports 1-5)	**On (Green):** Running at 2.5 Gbps **On (Yellow):** Running at 100/1000 Mbps **Blinking:** Transmitting/receiving data **Off:** No connected device
PoE (For ports 1-4)	**On:** Providing PoE power **Blinking:** Current-overload/Short-circuit **Off:** Not providing PoE Power
PoE Max	**On:** 113 W ≤ Total power supply < 120 W **Blinking:** Total power supply keeps ≥ 113 W for more than 2 minuites **Off:** Total power supply < 113 W
SFP+ (For port 6)	**On (Green):** Running at 10 Gbps **On (Yellow):** Running at 1000 Mbps **Blinking:** Transmitting/receiving data **Off:** No connected device

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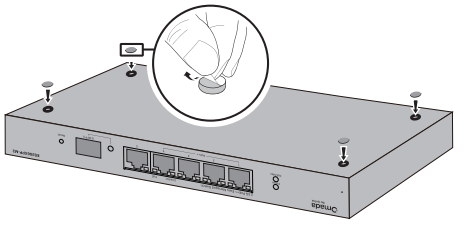
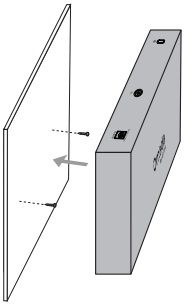
Installation

Desktop:
Attach the supplied rubber feet to the bottom of the switch to prevent it from slipping when placed on a desktop.

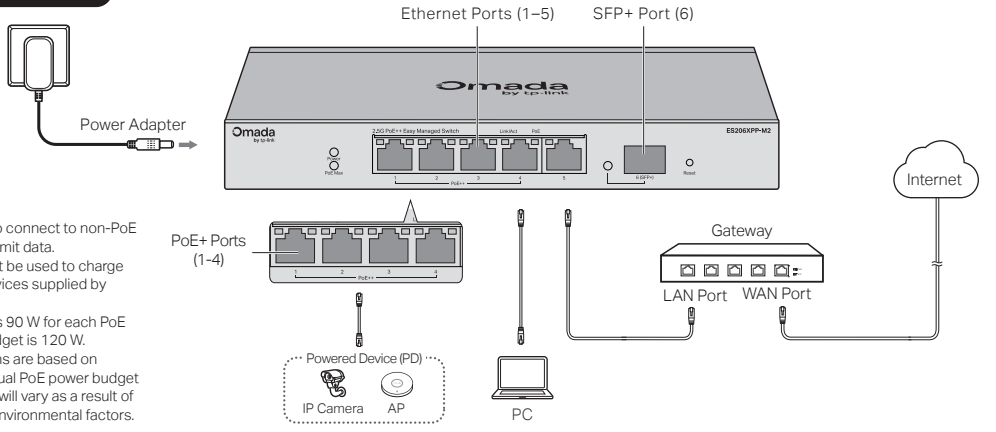


Wall-mounting:
Drill two holes on the wall according to the mounting holes on the bottom of the switch, then secure the switch to the wall with two suitable screws (not provided).



Note: For detailed information, please refer to the Wall Mounting Guide on the device's support page.

Connection



Note:
1. The PoE ports can also connect to non-PoE devices, but only transmit data.
2. The PoE ports shall not be used to charge lithium batteries or devices supplied by lithium batteries.
3. Maximum PoE power is 90 W for each PoE port, and total PoE budget is 120 W.
4. 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.

Configuration

The switch supports two configuration methods:

- Standalone Mode: Configure and manage the switch individually. To set up a standalone Omada switch, scan the QR code or refer to https://www.omadanetworks.com/support/faq/4097/.

Scan for Standalone Configuration Guide

- Controller Mode: Configure and manage the network devices centrally. This mode is recommended for large-scale networks with numerous devices, including access points, switches, and gateways.
  To set up an Omada switch 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.

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

For detailed instructions on device configuration, refer to the user guides of the Controller and switches. The guides can be found in the support center of our official website: https://support.omadanetworks.com/document/.

Specifications

General Specifications

Standard	IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3bz, IEEE 802.3ae, IEEE 802.3az, IEEE 802.3x, IEEE 802.1p, IEEE 802.1q IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt
Interface	4 100M / 1G / 2.5G RJ45 PoE++ Ports 1 100M / 1G / 2.5G RJ45 Port 1 10G SFP+ Port
Transmission Media	100BASE-TX: UTP category 5, 5e cable (maximum 100 m) 1000BASE-T: UTP category 5e cable or above (maximum 100 m) 1000BASE-SX: 62.5 μm MMF (2 m ~ 275 m) or 50 μm MMF (2 m ~ 550 m) 1000BASE-LX: 62.5/50 μm MMF (2 m ~ 550 m) or 9 μm SMF (2 m ~ 5000 m) 1000BASE-LX10: B1.1, B1.3 SMF (2 fiber) (0.5 m ~ 10 km) 1000BASE-BX10: B1.1, B1.3 SMF (1 fiber) (0.5 m ~ 10 km) 2.5GBASE-T: UTP category 5e cable or above (maximum 100 m) 10GBASE-SR: OM1/OM2/OM3 or above MMF (2 m ~ 300 m) 10GBASE-LR: IEC B1.1 and B1.3 SMF (2 m ~ 10 km)
Switching Capacity	45 Gbps
Transfer Method	Store-and-Forward
MAC Address Learning	Automatically learning, automatically aging
Power Supply	Input: 100-240 VAC, 50/60 Hz Output: 53.5 V DC/2.43 A
Wall Mountable	Yes
Distance Between Mounting Holes	150 mm

Environmental and Physical Specifications

Operating Temperature	-5 ˚C to 40 ˚C (23 ˚F to 104 ˚F)
Storage Temperature	-40 ˚C to 70 ˚C (-40 ˚F to 158 ˚F)
Operating Humidity	10% to 90%RH non-condensing
Storage Humidity	5% to 90%RH non-condensing

Frequently Asked Questions (FAQ)

Q1. The Power LED is not lit.

The Power LED should be lit when the power system is working normally. If the Power LED is not lit, please check as follows:

A1: Make sure the switch and power source are properly connected through the power adapter.

A2: Make sure the power source voltage meets the input voltage requirements of both the power adapter and the switch.

A3: Make sure the power source is on.

Q2. Why is the Link/Act LED not lit while a device is connected to the corresponding port?

It is recommended that you check the following items:

A1: Make sure that the cable connectors are firmly plugged into the switch and the device.

A2: Make sure the connected device is turned on and working well.

A3: The cable must be less than 100 meters long (328 feet). If Extend Mode is enabled, it should be less than 250 meters (820 feet).

Q3. Why is PoE Port not supplying power for PoE devices?

When the total power consumption of connected PoE devices exceeds the maximum, the PoE port with a smaller port number has a higher priority. The system will cut off power to the ports with larger port numbers to ensure supplying to other ports.

For example, if port 1, 2 and 4 are consuming 30 W respectively, and an additional PoE device with 60 W is connected to port 3, the system will cut off the power of port 4 to compensate for the overload.

More Resources

Main Site	https://www.omadanetworks.com/
Video Center	https://support.omadanetworks.com/video/
Documents	https://support.omadanetworks.com/document/
Product Support	https://support.omadanetworks.com/product/
Technical Support	https://support.omadanetworks.com/contact-support/

Warranty

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

EU declaration of conformity

TP-Link hereby declares that the switch is in compliance with the essential requirements and other relevant provisions of directives 2014/30/EU, 2014/35/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 switch is in compliance with the essential requirements and other relevant provisions of the Electromagnetic Compatibility Regulations 2016 and Electrical Equipment (Safety) Regulations 2016.
The original UK declaration of conformity may be found at https://www.tp-link.com/support/ukca/

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 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.
- Use only power supplies which are provided by manufacturer and in the origin packing of this product. If you have any questions, please don't hesitate to contact us.
- Place the device with its bottom surface downward.