

Installation Guide

Omada 2.5G PoE++ Easy Managed Switch

Note: For simplicity, we will take ES206XPP-M2 for example throughout the Guide. The images in this guide are for demonstration only and may differ from your actual product.

Package Contents



Switch



Installation Guide



Rubber Feet



DC Power Adapter



AC Power Cord

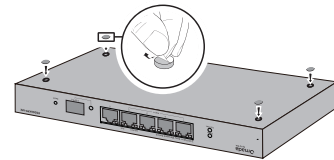
LED Explanation

LED	Explanation
Power	On/Off: Power on/off
Link/Act (For ports 1-5 of ES206XPP-M2/ ports 1-8 of ES210XPP-M2)	On (Green): Running at 2.5 Gbps On (Yellow): Running at 100/1000 Mbps Blinking: Transmitting/receiving data Off: No connected device
Link/Act (For port 9 of ES210XPP-M2)	Left LED On (Green): Running at 10 Gbps On (Yellow): Running at 5 Gbps Blinking: Transmitting/receiving data Off: No connected device
	Right LED 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 of ES206XPP-M2/ ports 1-8 of ES210XPP-M2)	On: Providing PoE power Blinking: Current-overload/Short-circuit Off: Not providing PoE Power
PoE Max	On: The remaining PoE power is ≤ 7 W Blinking: The remaining PoE power keeps ≤ 7 W for more than 2 minutes Off: The remaining PoE power is > 7 W
SFP+ (For port 6 of ES206XPP-M2/ port 10 of ES210XPP-M2)	On (Green): Running at 10 Gbps On (Yellow): Running at 1000 Mbps Blinking: Transmitting/receiving data Off: No connected device

Installation

Desktop:

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

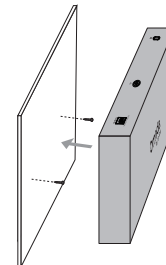


Note:

Avoid placing the switch on top of another and use the rubber feet to ensure enough clearance for air circulation.

Wall-mounting:

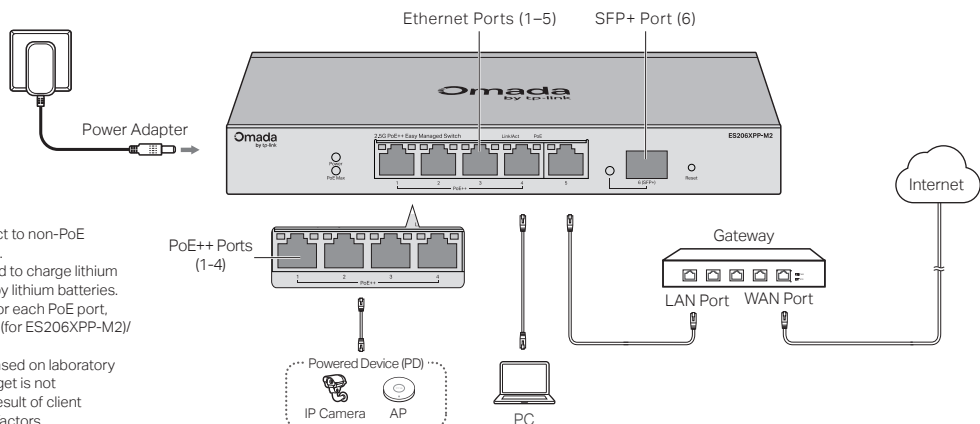
Drill two holes on the wall according to the mounting holes on the bottom of the switch, then secure the switch to the wall with two suitable screws (not provided).



Note:

Ensure enough clearance between the switch and the wall for air circulation. For detailed information, refer to the Wall Mounting Guide at <https://support.omadanetworks.com/document/901/>.

Connection



Note:

- The PoE ports can also connect to non-PoE devices, but only transmit data.
- The PoE ports shall not be used to charge lithium batteries or devices supplied by lithium batteries.
- Maximum PoE power is 90 W for each PoE port, and total PoE budget is 120 W (for ES206XPP-M2)/ 200 W (for ES210XPP-M2).
- 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/>.
- 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 Standalone Configuration Guide



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.



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 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3bz, IEEE 802.3an (for ES210XPP-M2), IEEE 802.3z, 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	ES206XPP-M2: 4 × 100M/1G/2.5G RJ45 PoE++ Ports 1 × 100M/1G/2.5G RJ45 Port 1 × 10G SFP+ Port ES210XPP-M2: 8 × 100M/1G/2.5G RJ45 PoE++ Ports 1 × 100M/1G/2.5G/5G/10G 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) 5GBASE-T: UTP/STP category 5e cable or above (maximum 100 m) (for ES210XPP-M2) 10GBASE-T: UTP category 6 cable (maximum 55m), STP category 6/6a/7 cable, or UTP category 6a cable (maximum 100m) (for ES210XPP-M2) 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	ES206XPP-M2: 45 Gbps ES210XPP-M2: 80 Gbps
Transfer Method	Store-and-Forward
MAC Address Learning	Automatically learning, automatically aging
Power Supply	Input: 100-240 VAC, 50/60 Hz Output: ES206XPP-M2: 53.5 V DC/2.43 A ES210XPP-M2: 54 V DC/4.16 A
Wall Mountable	Yes
Distance Between Mounting Holes	150 mm

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).

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.

Take ES206XPP-M2 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>.

Support

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



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.
- 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.