

# Installation Guide

Gigabit Easy Managed PoE+ Switch

For simplicity, we will take ES210GP for example throughout this guide.  
The images are for demonstration only and may differ from your actual product.

## LED Explanation

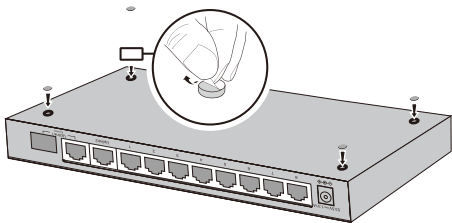
LED	Explanation
Power	On/Off: Power on/off
Link/Act; Uplink1, Uplink2 (Only ES210GP has the uplink ports)	On (Green): Running at 1000 Mbps On (Yellow): Running at 10/100 Mbps Flashing: Transmitting/receiving data Off: No device connected
PoE Status	On: Providing PoE power Flashing: PoE fault Off: Not providing PoE Power
PoE Max	On: The remaining PoE power is $\leq 7\text{ W}$ Flashing: The remaining PoE power keeps $\leq 7\text{ W}$ after this LED is on for 2 minutes Off: The remaining PoE power is $> 7\text{ W}$

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## Installation

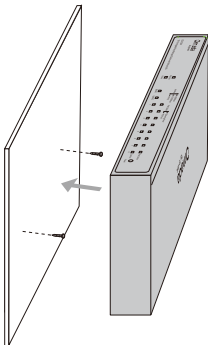
### Desktop:

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



### Wall-mounting:

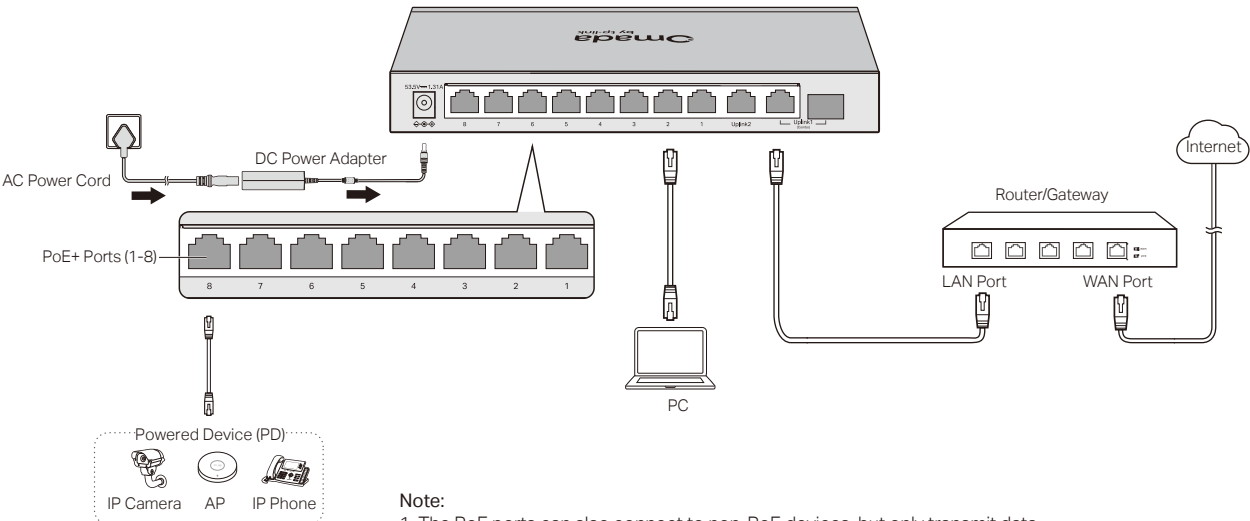
Drill two holes on the wall according to the mounting holes on the bottom of the switch, then secure the switch to the wall with two suitable screws (not provided).



### 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. The uplink ports typically connect to uplink devices like routers/gateways.
4. The combo port consists of one RJ45 port and one SFP slot, which cannot be used simultaneously.
5. The SFP slot needs to work with a gigabit SFP module.

# 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 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af, IEEE 802.3at, IEEE 802.3x, IEEE 802.1p, IEEE 802.1q, IEEE 802.3z (only for ES210GP)
Interface	ES208GP: 8× 10/100/1000 Mbps RJ45 Ports, Auto-Negotiation MDI/MDIX; PoE Ports: Port 1-8 ES210GP: 10× 10/100/1000 Mbps RJ45 Ports, Auto-Negotiation MDI/MDIX; 1× 1000 Mbps SFP port (Combo); PoE Ports: Port 1-8
Transmission Medium	10BASE-T: UTP category 3, 4, 5 cable (maximum 100 m); 100BASE-TX: UTP category 5, 5e cable (maximum 100 m); 1000BASE-T: UTP category 5e cable or above (maximum 100 m); 1000BASE-SX/LX/LX10/BX10: MMF, SMF (only for ES210GP)
Switching Capacity	ES208GP: 16 Gbps ES210GP: 20 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/1.31 A
PoE Budget	ES208GP: 64 W (up to 30 W for each PoE port) ES210GP: 63 W (up to 30 W for each PoE port)
Wall Mountable	Yes
Distance Between Mounting Holes	ES208GP: 110 mm ES210GP: 150 mm

### Environmental and Physical Specifications

Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Operating Humidity	10% RH to 90% RH non-condensing
Storage Humidity	5% RH 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 15.4 W respectively, and an additional PoE device with 20 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	<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>.

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.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- The plug on the power supply cord is used as the disconnect device, the socket-outlet shall be easily accessible.
- Plug the product into the wall outlets with earthing connection through the power supply cord.
- The operating temperature for the device shall be within 0°C~40°C (32°F~104°F).

ES208GP: 運作溫度 : 0°C~40°C (32°F~104°F)



This is a class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Продукт сертифіковано згідно з правилами системи УкрСЕПРО на відповідність вимогам нормативних документів та вимогам, що передбачені чинними законодавчими актами України.

The POE output cannot be used to charge lithium batteries or devices with lithium batteries.

CAN ICES-003 (A)/NMB-003 (A)

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI-A



BSMI Notice

安全諮詢及注意事項

- 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防潮，請勿將水或其他液體潑灑到本產品上。
- 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱，請勿堵塞或覆蓋開口。
- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 請不要私自拆開機殼或自行維修，如產品有故障請與原廠或代理商聯繫。

警告：為避免電磁干擾，本產品不應安裝或使用於住宅環境。

限用物質含有情況標示聲明書

單元 Unit	限用物質及其化學符號					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr <sup>6+</sup> )	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
PCB	○	○	○	○	○	○
外殼	○	○	○	○	○	○
電源供應器	-	○	○	○	○	○
其他及其配件	-	○	○	○	○	○
備考1: “超出0.1 wt %”及“超出0.01 wt %”係指限用物質之百分比含量超出百分比含量基準值 Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition. 備考2: “○”係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence. 備考3: “-”係指該項限用物質為排除項目。 Note 3: The “-” indicates that the restricted substance corresponds to the exemption.						

Wall Mounting Specifications

Model	Screw Standard of ANSI B1.1	Minimum Length of Screw	Screw-Head-to-Wall Minimum Distance	Wall-Mounting-Holes Distance
ES208GP	4#, (5#), 6#	7mm	1.5mm	110mm
ES210GP	4#, (5#), 6#	7mm	1.5mm	150mm

Explanation of the symbols on the product label

產品標籤上符號的解釋

Note: The product label can be found at the bottom of the product and its I.T.E. power supply. Symbols may vary from products.  
注意：產品標籤可以在產品底部和其I.T.E. 電源供應

Symbol 符號	Explanation 說明
	Class II equipment 二級設備
	Class II equipment with functional earthing 具有接地功能的二級設備
	Alternating current 交流電
	Direct current DC 電壓
	Polarity of d.c. power connector 輸出端點的極性
	For indoor use only 僅供室內使用
	Dangerous voltage 危險電壓
	Caution, risk of electric shock 請注意，有觸電的危險
	Energy efficiency Marking 能源效率標誌
	Protective earth 保護接地
	Earth 接地
	Frame or chassis 框架或外殼
	Functional earthing 功能接地
	Caution, hot surface 請注意，表面過熱
	Caution 警告
	Operator's manual 操作手冊
	Stand by 待機
	"ON"/"OFF" (push- push) "開啟" / "關閉" (按壓式)
	Fuse 保險絲
	Fuse is used in neutral N 保險絲用於中性線N
	RECYCLING 回收 This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. 這個產品帶有歐盟指令2012/19/EU 中關於廢棄電氣電子設備（WEEE）的選擇性分類標誌。這意味著，該產品必須按照該指令處理，以便進行回收或拆解，從而最大限度地減少對環境的影響。 User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment. 用戶可以選擇將產品交給有資格的回收機構，或在購買新的電器或電子設備時將其交給零售商進行回收。
	Caution, avoid listening at high volume levels for long periods 請小心，避免長時間以高音量收聽。
	Disconnection, all power plugs 斷線，所有電源插頭
m	Switch of mini gap construction 迷你間隙結構開關
μ	Switch of micro-gap construction (for US version) Switch of micro-gap /micro disconnection construction (for other versions except US) 小間隙結構開關（US 版本） 小間隙 / 小斷開結構的開關（非US 版）
ε	Switch without contact gap (Semiconductor switching device) 無接觸間隙的開關（半導體開關設備）