Omada Industrial
Easy Managed Switch

Quick Start Guide

CONTENTS

About this Guide

This Installation Guide describes the hardware characteristics, installation methods and the points that should be attended to during the installation. This Installation Guide is structured as follows:

Chapter 1 Product Overview

This chapter describes the external components of the switch.

Chapter 2 Installation

This chapter illustrates the installation procedures of the switch.

Chapter 3 Configuration

This chapter describe the configuration modes of the switch.

Appendix A Troubleshooting

Appendix B Specifications

Audience

This Installation Guide is for:

Network Engineer   Network Administrator

Conventions

- Some models featured in this guide may be unavailable in your country or region. For local sales information, visit our official website: https://www.omadanetworks.com/.

- The figures in this guide are for demonstration purposes only. Your switch may differ in appearance from that depicted.

- The PoE budget is based on lab tests and may vary due to power supply, client limitations, and environmental factors.

- This guide uses the specific formats to highlight special messages. The following table lists the notice formats that are used throughout this guide.

Caution	Remind to be careful. A caution indicates a potential which may result in device damage.
Note	Remind to take notice. The note contains the helpful information for a better use of the product.

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/.

Chapter 1   Product Overview

1.1 Front Panel

(The figures are for demonstration only. They may differ from your actual products.)

The front panel of IES206G / IES208G is shown as the following figure.
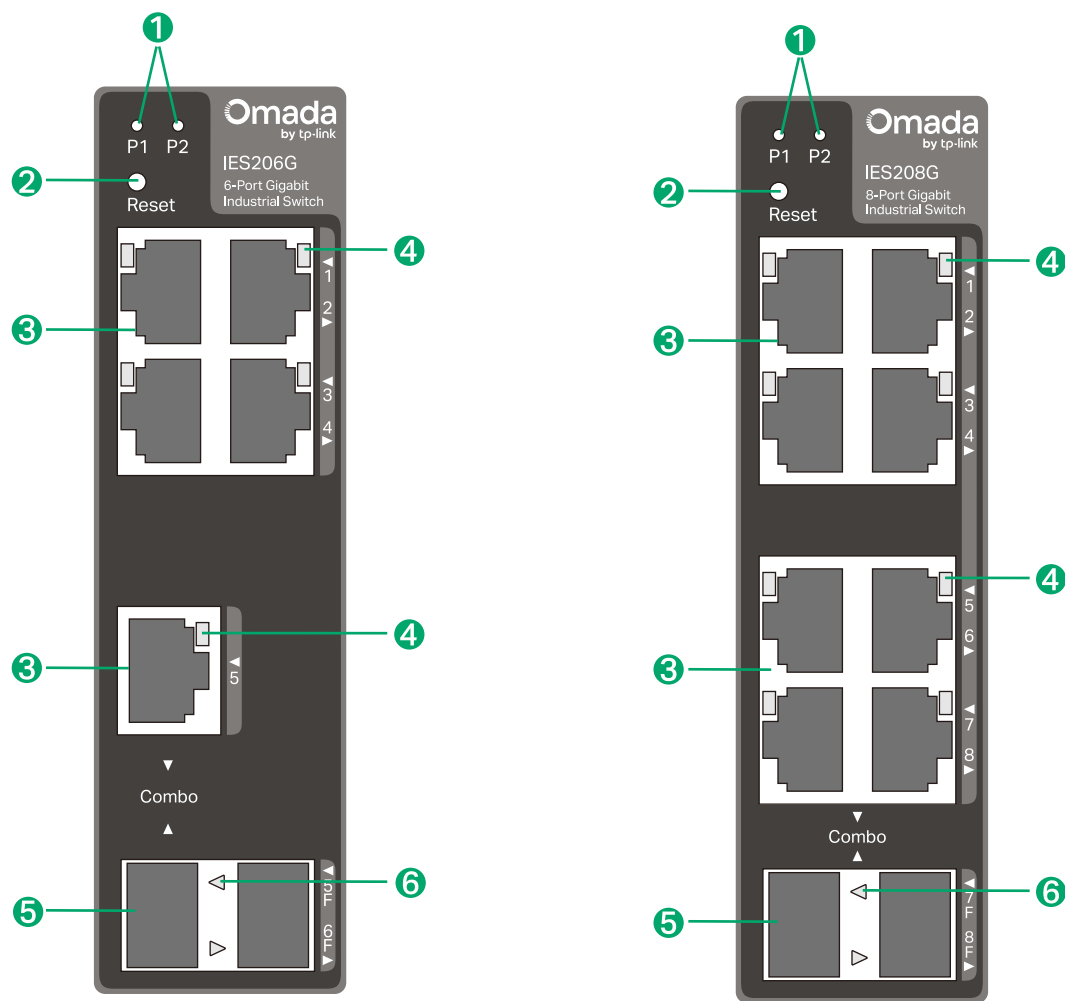
1	Power Status LED
2	Reset Button
3	RJ45 Port
4	Link/Act LED
5	SFP Slot
6	SFP LED

LED		Explanation
Power Status	P1	**On:** PWR1 power supply is on. **Off:** PWR1 power supply is off.
	P2	**On:** PWR2 power supply is on. **Off:** PWR2 power supply is off.
Link/Act Ports 1-5 of IES206G Ports 1-8 of IES208G		**On (Green):** Running at 1000 Mbps **On (Yellow):** Running at 10/100 Mbps **Blinking:** Transmitting/receiving data **Off:** No connected device
SFP Ports 5F-6F of IES206G Ports 7F-8F of IES208G		**On (Green):** Running at 1000 Mbps **Blinking:** Transmitting/receiving data **Off:** No connected device

Note:

Ports 5 and 5F of IES206G, ports 7 and 7F, ports 8 and 8F of IES208G form combo port pairs, respectively. Only one of the ports in the pair can be active at a time.

The front panel of IES206GPP / IES210GPP is shown as the following figure.
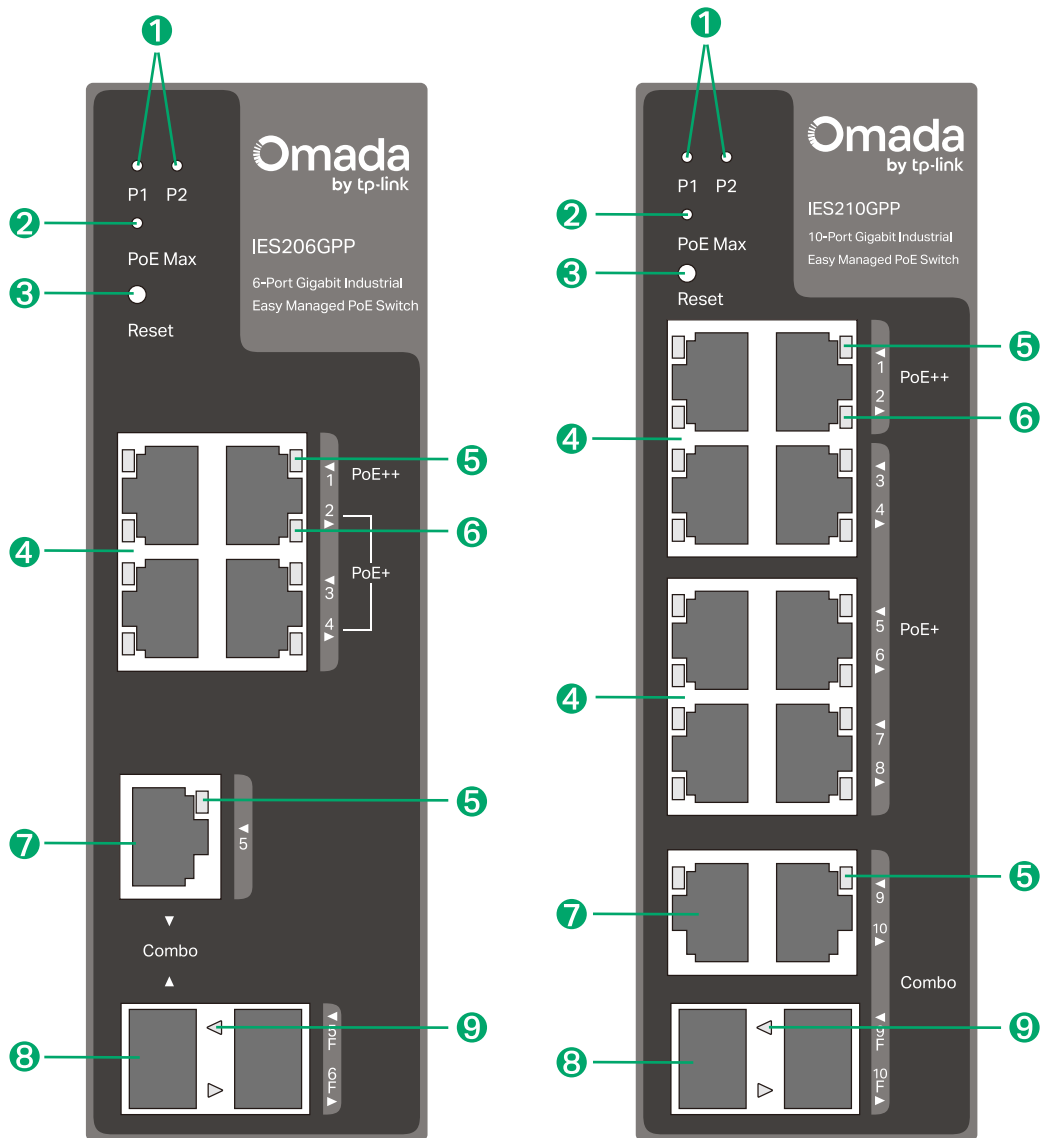
1	Power Status LED
2	PoE Max LED
3	Reset Button
4	RJ45 PoE Port
5	Link/Act LED
6	PoE Status LED
7	RJ45 Port
8	SFP Slot
9	SFP LED

LED		Explanation
Power Status	P1	**On:** PWR1 power supply is on. **Off:** PWR1 power supply is off.
	P2	**On:** PWR2 power supply is on. **Off:** PWR2 power supply is off.
Link/Act Ports 1-5 of IES206GPP Ports 1-10 of IES210GPP		**On (Green):** Running at 1000 Mbps **On (Yellow):** Running at 10/100 Mbps **Blinking:** Transmitting/receiving data **Off:** No connected device
PoE Status Ports 1-4 of IES206GPP Ports 1-8 of IES210GPP		**On:** Providing PoE power **Blinking:** Current-overload/Short-circuit **Off:** No PD device or PoE Power not provided
PoE Max		**On:** Remaining power supply is ≤ 7 W **Blinking:** Remaining power supply remains ≤ 7 W for more than 2 minutes **Off:** Remaining power supply is > 7 W
SFP Ports 5F-6F of IES206GPP Ports 9F-10F of IES210GPP		**On (Green):** Running at 1000 Mbps **Blinking:** Transmitting/receiving data **Off:** No connected device

Note:

Ports 5 and 5F of IES206GPP, ports 9 and 9F, ports 10 and 10F of IES210GPP form combo port pairs, respectively. Only one of the ports in the pair can be active at a time.

1.2 Top Panel

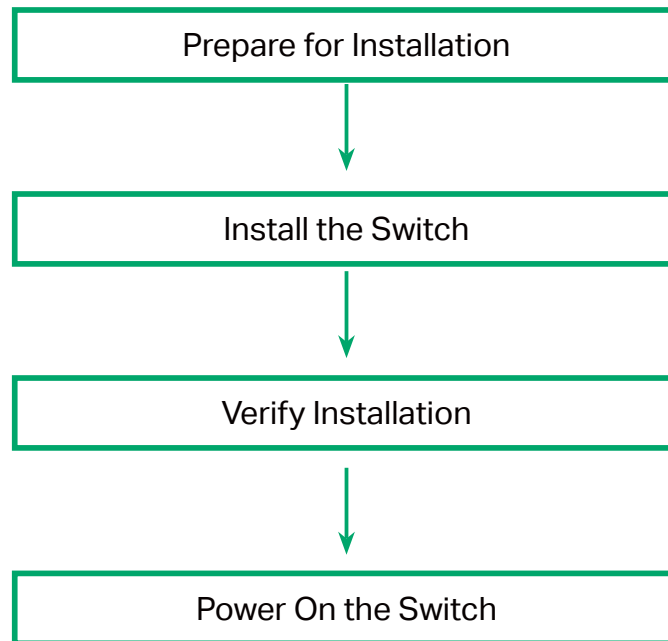(The figures are for demonstration only. They may differ from your actual products.)
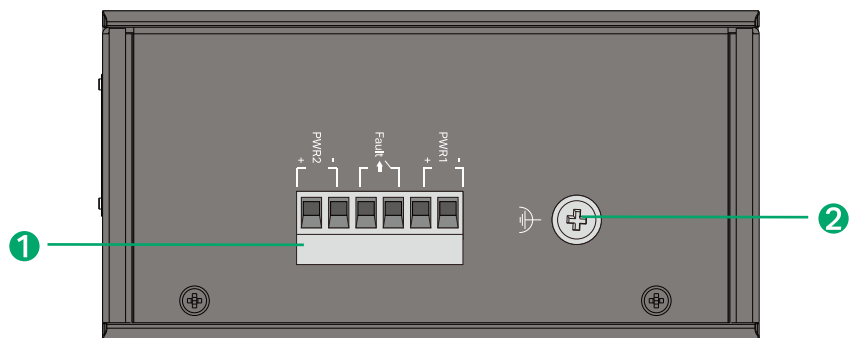
1	Terminal Block
2	Ground Screw

1.2 Top Panel

Chapter 2   Installation

2.1 Installation Procedures

The installation procedures of the switch are shown as follows.

```
┌─────────────────────────────────────┐
│      Prepare for Installation        │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│          Install the Switch          │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│         Verify Installation          │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│        Power On the Switch           │
└─────────────────────────────────────┘
```

2.2 Prepare for Installation

▪ Package Contents

The actual package contents may differ based on region.

Switch   DIN-Rail Mounting Bracket   M3X6 Flathead Screw

Terminal Block   Wall-Mounting Plate   Installation Guide
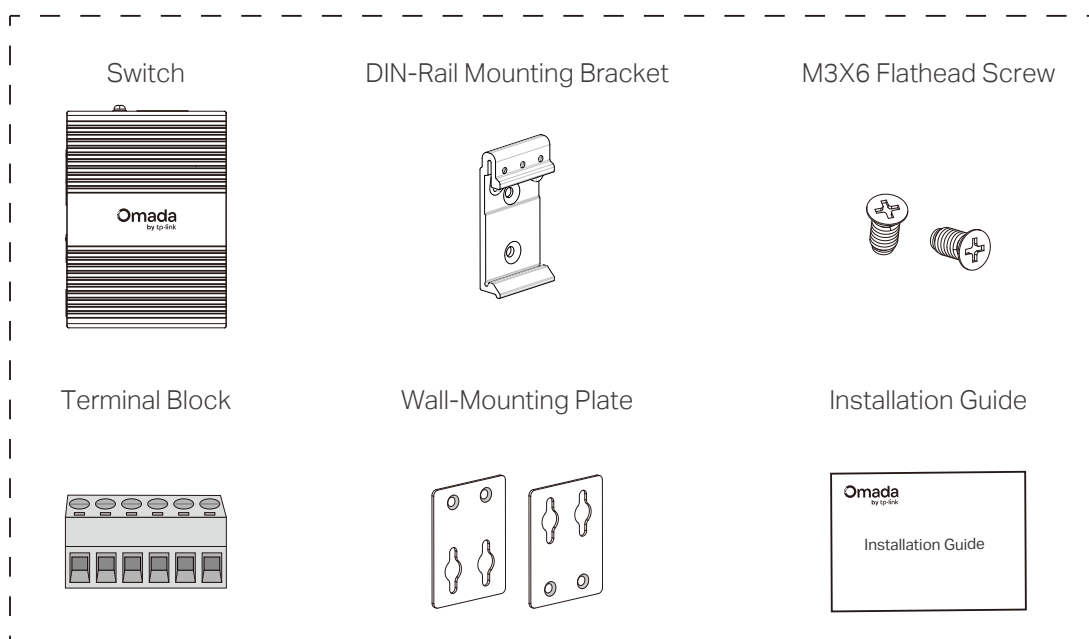
▪ **Other Installation Tools**

• Phillips screwdriver

• Driller

• Expansion bolts

• ANSI B1.1 4# standard screws

• Wire stripper

• Wire crimper

• Ratcheting torque screwdriver

• Ring terminal

• Ground wires

• Copper wires

• Copper ferrules

• Cables

Note:

These tools are not included with our product. If needed, you can purchase them separately.

2.3 Install the Switch

To install the switch, follow these steps:

• Mount the switch

• Ground the switch

• Wire DC power supply

• Connect the switch

For detailed installation and connection instructions, refer to the corresponding installation guide of the switch:

| Model	Installation Guide
IES206G/ IES208G	Omada Industrial Easy Managed Switch Installation Guide
IES206GPP/ IES210GPP	Omada Industrial Easy Managed PoE Switch Installation Guide

▪ **Mount the Switch**

Omada Industrial Easy Managed Switch supports two mounting options:
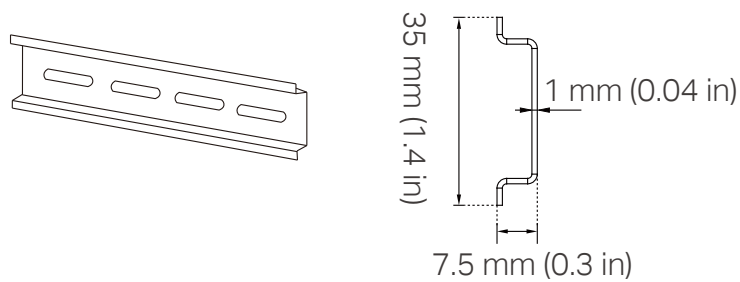
• DIN-rail mounting

• Wall mounting

The mounting dimensions are shown as follows:

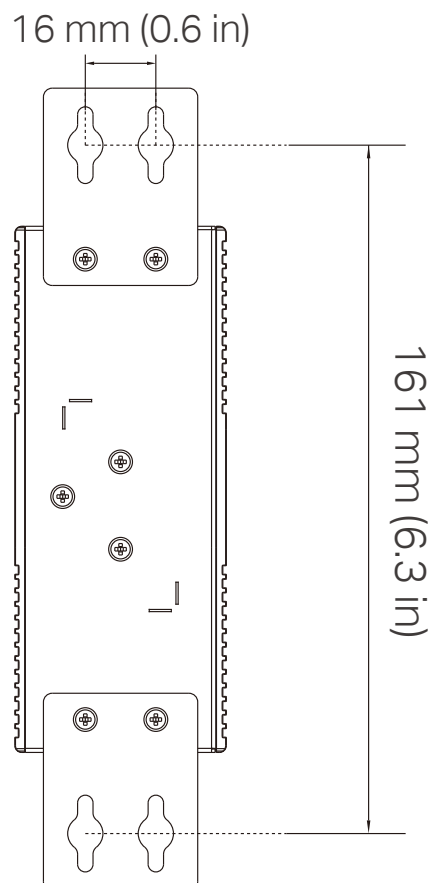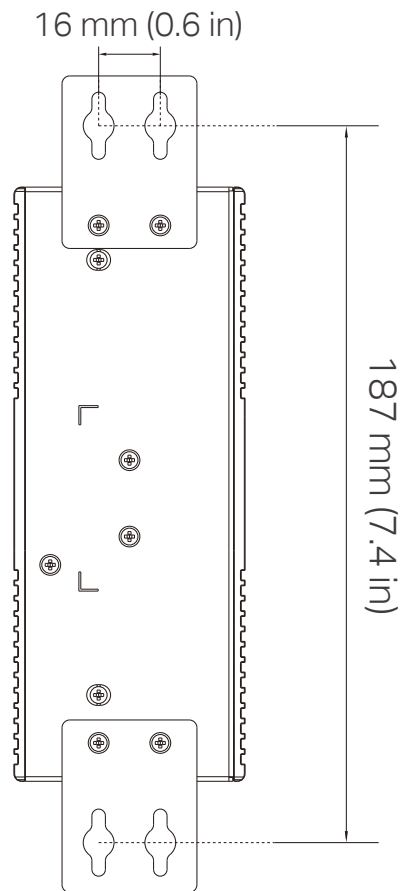- DIN-rail mounting dimensions
  1) DIN-rail mounting bracket

  48.3 mm (1.9 in)

  2) DIN-rail

  35 mm (1.4 in)

  1 mm (0.04 in)

  7.5 mm (0.3 in)
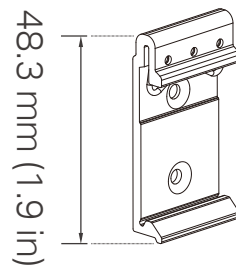
- Wall-mounting dimensions
  1) Non-PoE Switch (For IES206G/ IES208G)

  16 mm (0.6 in)

  161 mm (6.3 in)

2) PoE Switch (For IES206GPP/ IES210GPP)

16 mm (0.6 in)

187 mm (7.4 in)

- ### Ground the Switch

The switch must be properly grounded before connecting to power supply and other devices.

Caution:
The ground wire must be copper and at least 14 AWG.

- ### Wire DC Power Supply

Use copper wires and ferrules of proper dimensions to wire the DC power supply and connect it to the switch.

Caution:
1. The wires must be copper and at least 22 AWG for IES206G/ IES208G and 14 AWG for IES206GPP/ IES210GPP.
2. The recommended length of the wire to be stripped is 10 mm (0.39 inch).
3. The recommended length of the copper ferrules is 8 mm (0.31 inch).

■ **Connect the Switch**

The steps to connect the switch are as follows:

• Ground the switch properly.

• Connect the terminal block to the DC power supply (keep the power off).

• Insert the terminal block into the switch.

• Connect the switch to the internet.

Note:

1. The PoE ports shall not be used to charge lithium batteries or devices powered by lithium batteries.

2. The PoE budget is based on lab tests and may vary due to power supply, client limitations, and environmental factors.

3. The Fault Relay is a normally closed contact that will open the circuit when a Fault event is triggered.

Caution:

1. To ensure IP40 protection, tighten the ground screw and all the mounting screws on the switch regardless of installation method.

2. Keep the power off until everything is properly connected.

3. To avoid any device damage and bodily injury, connect the grounding stud to the grounding surface properly before connecting devices.

4. Maintain an ambient temperature range of -40°C~75°C.

2.4 Verify Installation

After completing the installation, verify the following items:

• There should be 5 to 10 cm of clearance around the device for ventilation and make sure the air flow is adequate.

• The voltage of the power supply meets the requirement of the input voltage of the device.

• The device is well grounded.

• The device is correctly connected to other network devices.

2.5 Power On the Switch

After the switch is powered on with the appropriate power supply, the corresponding Power LED indicator(s) will light on all the time and the switch will begin the Power-On Self-Test. A series of tests run automatically to ensure the device functions properly. After a few seconds,

all LED indicators will turn on momentarily and then turn off except the Power LED(s), indicating a successful initialization.

Chapter 3 Configuration

3.1 Configuration Overview

The switch supports two configuration options:

- Standalone Mode: Configure and manage the switch singly.
- Controller Mode: Configure and manage the network devices centrally. It is recommended in the large-scale network, which consists of mass devices such as access points, switches, and gateways.

Note:

When the switch is changed from Standalone Mode to Controller Mode, configurations of the switch will be lost. For details, refer to the related documents on our official website: https://support.omadanetworks.com/document/.

3.2 Standalone Mode

To set up a standalone Omada switch, scan the QR code or refer to the Omada Standalone Configuration Guide at https://www.omadanetworks.com/support/faq/4097/.

Scan for Standalone Configuration Guide

3.3 Controller Mode

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.

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/.

Appendix A Troubleshooting

Q1.What could I do if I forgot the username and password of the switch?

Press the Reset button for at least 5 seconds to reset the system. The system will be reset to the factory default settings, and the default login user name and password are both **admin**.

Q2.Why does the PWR LED work abnormally?

The PWR/Power LED should be lit up when the power system works normally. If the PWR/ Power LED worked abnormally, take the following steps:

1. Make sure that the power cable is connected properly, and the power contact is normal.
2. Make sure the voltage of the power supply meets the requirement of the input voltage of the switch.

Q3.What should I do if I cannot access the web management page?

Try the following:

1. Check every port LED on the switch and make sure the Ethernet cable is connected properly.
2. Try another port on the switch and make sure the Ethernet cable is suitable and works normally.
3. Power off the switch and, after a while, power it on again.
4. Make sure the IP address of your PC is set within the subnet of the switch.
5. If you still cannot access the configuration page, reset the switch to its factory defaults. Then the IP address of your PC should be set as 192.168.0.x ("x" is any number from 2 to 254) and subnet mask as 255.255.255.0.

Appendix B Specifications

Item	Content
Standards	IEEE 802.3, IEEE 802.3i, IEEE 802.3ab
	IEEE 802.3u, IEEE 802.3z
	IEEE 802.3x, IEEE 802.1p, IEEE 802.1q
	IEEE 802.1d, IEEE 802.1w, IEEE 802.1ab
	IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt (For IES206GPP/IES210GPP)
Transmission Medium	10Base-T: UTP/STP of Cat. 3 or above
	100Base-TX: UTP/STP of Cat. 5 or above
	1000Base-T: 4-pair UTP (≤ 100 m) of Cat. 5e, and Cat. 6 or above
	1000Base-SX/LX/LX10/BX10: MMF or SMF SFP Module
LEDs	IES206G: P1, P2, Link/Act, SFP IES208G: P1, P2, Link/Act, SFP IES206GPP: P1, P2, PoE Max, Link/Act, PoE, SFP IES210GPP: P1, P2, PoE Max, Link/Act, PoE, SFP
Power Input	9.6-60 VDC (For IES206G/ IES208G) 12-57 VDC (For IES206GPP/ IES210GPP)
Fault Relay	24 V / 1 A (Max)
PoE Power Budget	For IES206GPP: 60 W (Input: 12 V / 7.0 A - 21 V / 3.5 A) 120 W (Input: 21 V / 6.5 A - 57 V / 2.3 A) For IES210GPP: 60 W (Input: 12 V / 7.2 A - 21 V / 3.7 A) 120 W (Input: 21 V / 6.7 A - 46 V / 3.1 A) 240 W (Input: 46 V / 5.7 A - 57 V / 4.4 A)

PoE Power Per Port	Up to 60 W (PoE++ Port) Up to 30 W (PoE+ Port)
Operating Temperature	-40 °C to 75 °C (-40 °F to 167 °F)
Storage Temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Operating Humidity	5% to 95%RH Non-condensing
Storage Humidity	5% to 95%RH Non-condensing

FCC Compliance Information Statement

Product Name: Omada Industrial Easy Managed Switch

Model Number: IES206G/ IES208G IES206GPP/ IES210GPP

Responsible party:

TP-Link Systems Inc.

Address: 10 Mauchly, Irvine, CA 92618

Website: https://www.tp-link.com/us/

Tel: +1 626 333 0234

Fax: +1 909 527 6804

E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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.

2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

We, **TP-Link Systems Inc.**, has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.

Issue Date: 2025/02/24

CE Mark Warning

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.

TP-Link hereby declares that the device 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/ce

UKCA Mark Warning

TP-Link hereby declares that the device 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/

Industry Canada Statement

CAN ICES-3 (A)/NMB-3(A)
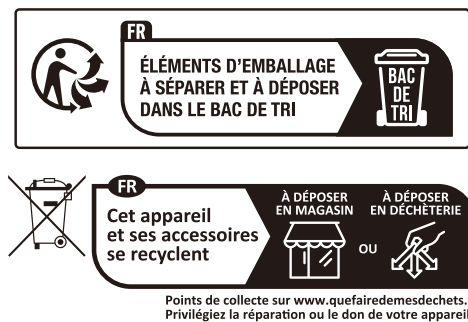
この装置は、クラス A 情報技術装置です. この装置を家庭環境で使用すると電波妨害を引き起こすことがあります. この場合には使用者が適切な対策を講ずるよう要求されることがあります.

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。

- 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。

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	限用物質及其化學符號					
	鉛 Pb	鎘 Cd	汞 Hg	六價鉻 Cr^{+6}	多溴聯苯 PBB	多溴二苯醚 PBDE
PCB	○	○	○	○	○	○
外殼	○	○	○	○	○	○
塑膠組件	○	○	○	○	○	○
五金組件	—	○	○	○	○	○
其他及其配件	—	○	○	○	○	○
備考1. "超出0.1 wt %" 及 "超出0.01 wt %" 系指限用物質之百分比含量超出百分比含量基準值. 備考2. "○"系指該項限用物質之百分比含量未超出百分比含量基準值. 備考3. "—" 系指該項限用物質為排除項目.						

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

Safety Information

- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.

- 請勿嘗試拆裝、修理或改裝此設備。如有其他需求，請聯繫我們。

- Keep the device away from water, fire, humidity or hot environments.

- 將設備遠離水、火、潮濕或高溫的環境。

- Place the device with its bottom surface downward.

- 將設備底部朝下放置。

- Adapter shall be installed near the equipment and shall be easily accessible.

- 變壓器應安裝在設備附近且易於操作。

- The PoE ports shall not be used to charge lithium batteries or devices supplied by lithium batteries. (For IES206GPP/IES210GPP)

- PoE 連接埠不得用於為鋰電池或由鋰電池供電的設備充電。(IES206GPP/IES210GPP)

- This equipment can be powered only by equipments that comply with Power Source Class 2 (PS2) or Limited Power Source (LPS) defined in the standard of IEC 62368-1. (For IES206G/IES208G)

- 這台設備僅能由符合 IEC 62368-1 標準中定義的電源等級 2 (PS2) 或有限電源 (LPS) 的設備供電。(IES206G/ IES208G)

- The operating temperature for the device shall be within -40˚C to 75˚C (-40˚F to 167˚F).

- 運作溫度 : -40˚C to 75˚C (-40˚F to 167˚F)

Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.
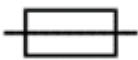
Explanation of the symbols on the product label

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. 電源供應器上找到。產品標籤可在產品底部找到。符號可能因產品而異。

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. 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. 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。 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）

Wall Mounting Requirements

For IES206G/ IES208G/ IES206GPP/ IES210GPP:

To mount the device on a wall, use 4 screws which complies with ANSI B1.1 4# standard and are more than 10 mm in length. When the screws are fixed on the wall, the distance between the screw head and the wall should be more than 2 mm.