



Omada Industrial Easy Managed Switch

Quick Start Guide

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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

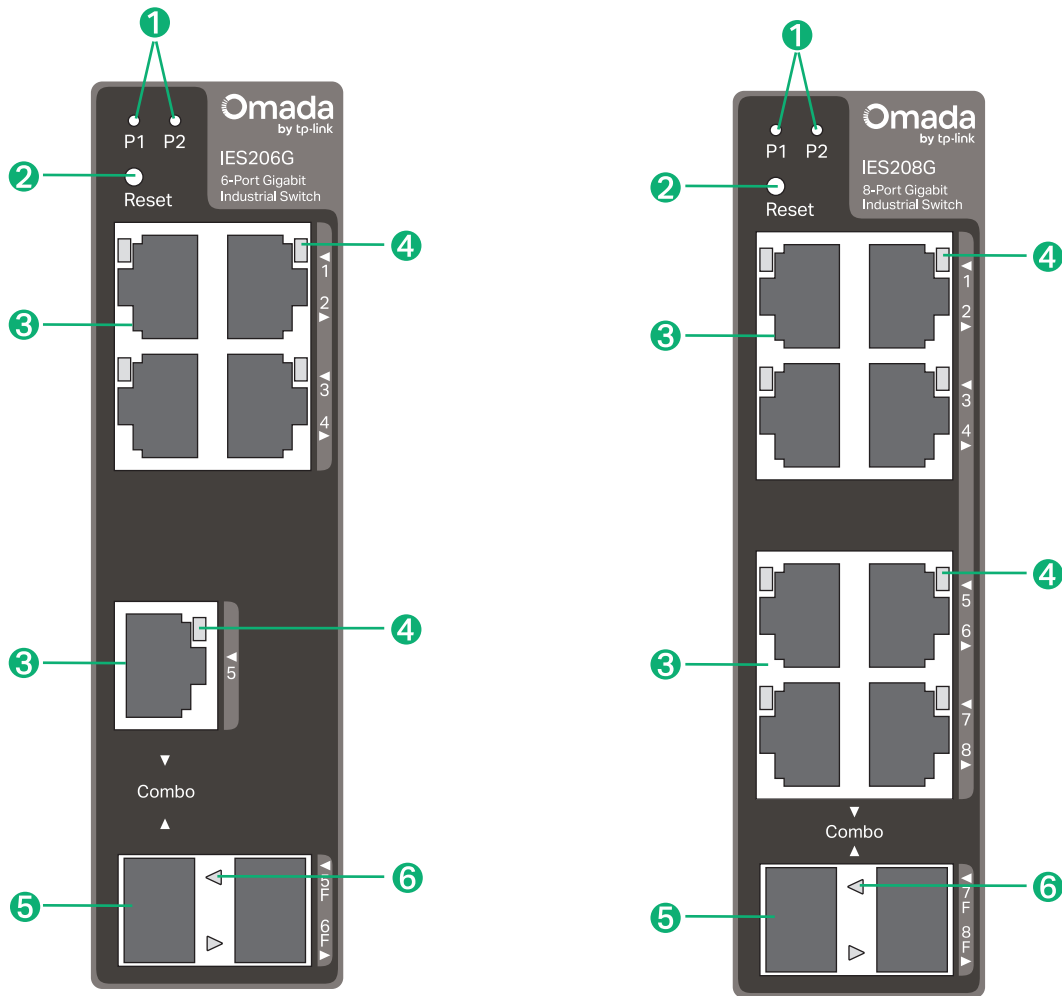
For technical support, user guides and other information, please visit

<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.



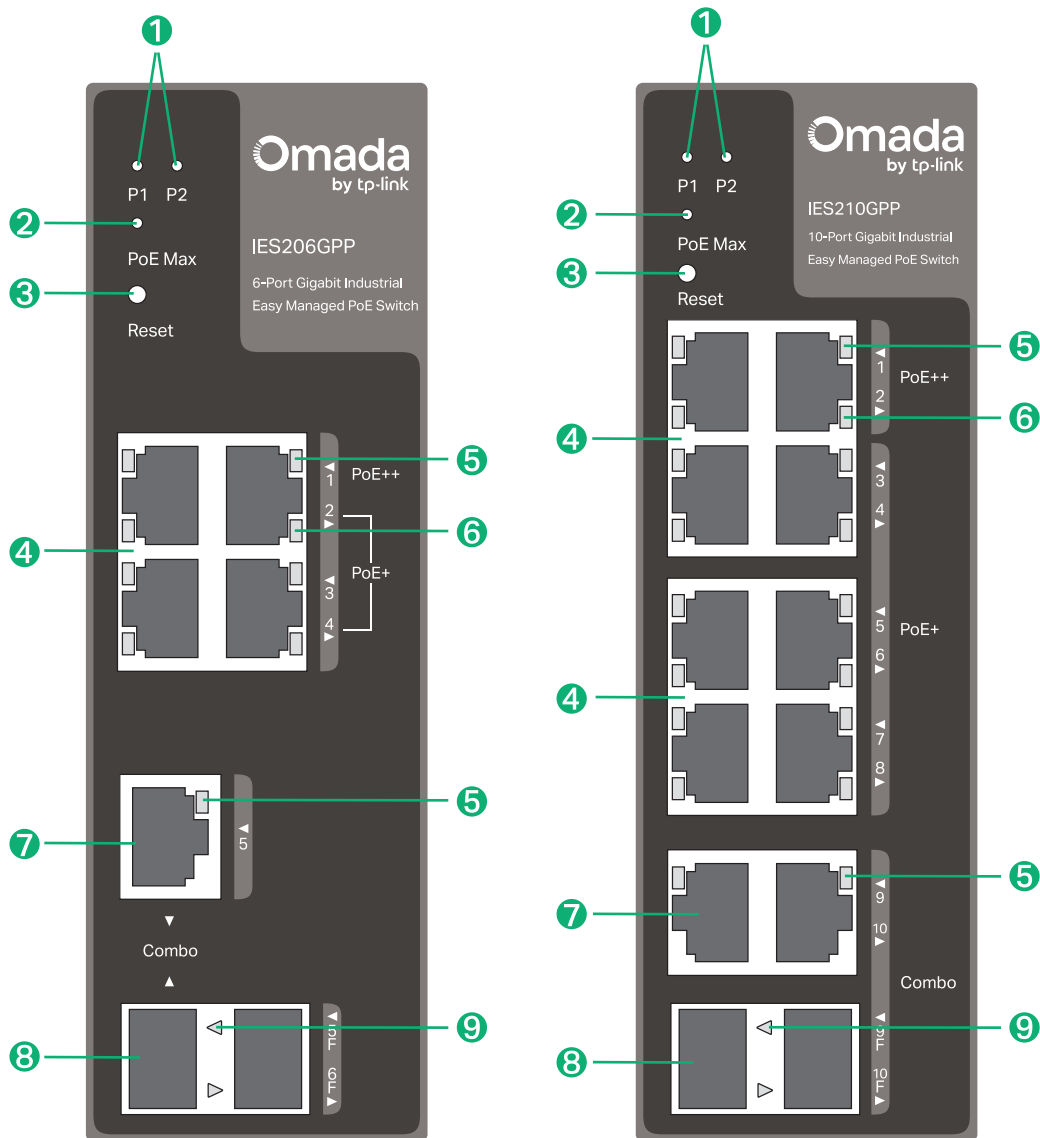
1	Power Status LED
2	Reset Button
3	RJ45 Port
4	Link/Act LED
5	SFP Slot
6	SFP LED

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

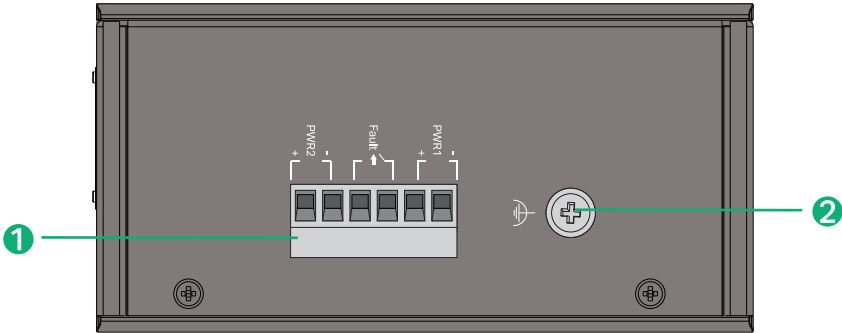
LED		Explanation
Power Status	P1	On: PWR1 power supply is on. Off: PWR1 power supply is off.
	P2	On: PWR2 power supply is on. Off: PWR2 power supply is off.
Link/Act Ports 1-5 of IES206GPP Ports 1-10 of IES210GPP		On (Green): Running at 1000 Mbps On (Yellow): Running at 10/100 Mbps Blinking: Transmitting/receiving 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.)

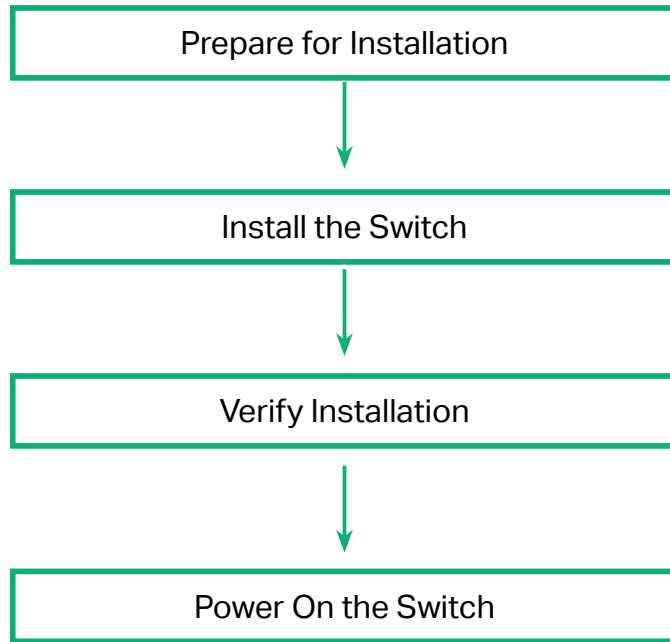


1	Terminal Block
2	Ground Screw

Chapter 2 Installation

2.1 Installation Procedures

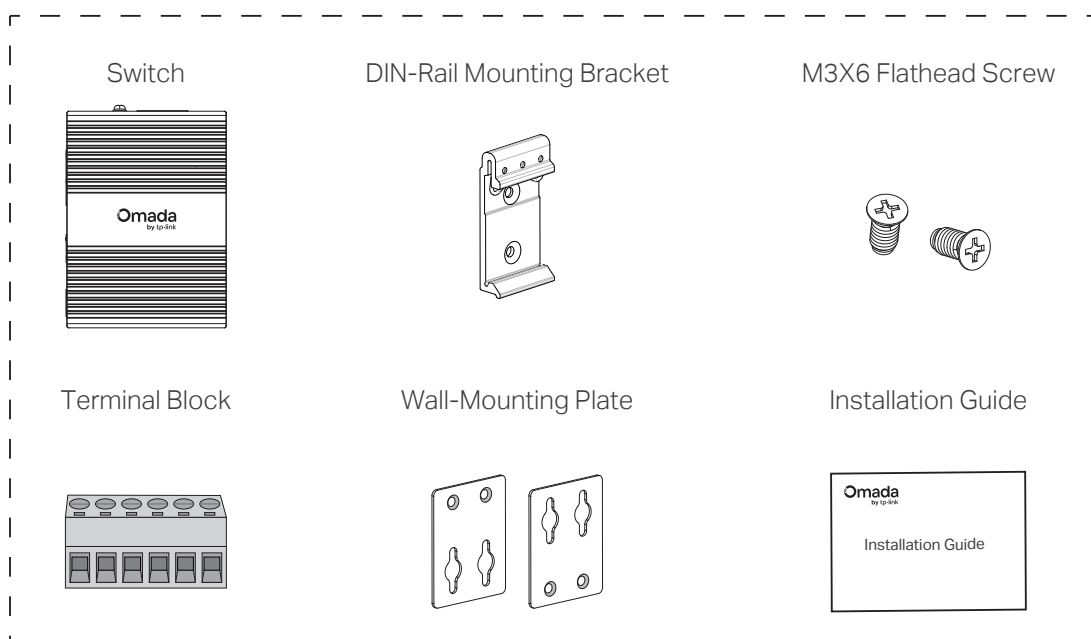
The installation procedures of the switch are shown as follows.



2.2 Prepare for Installation

Package Contents

The actual package contents may differ based on region.



■ 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

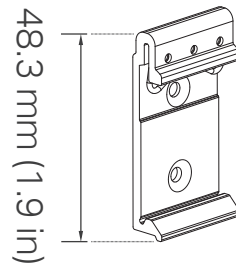
Omada Industrial Easy Managed Switch supports two mounting options:

- DIN-rail mounting
- Wall mounting

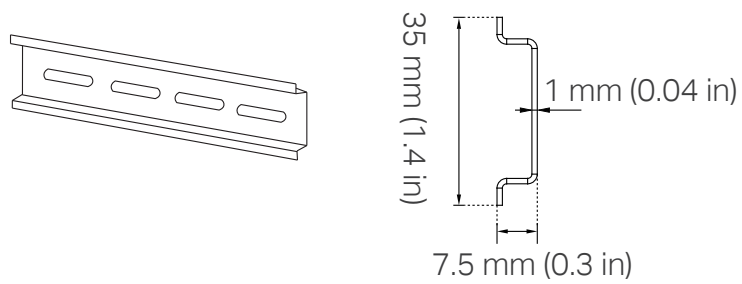
The mounting dimensions are shown as follows:

- DIN-rail mounting dimensions

1) DIN-rail mounting bracket

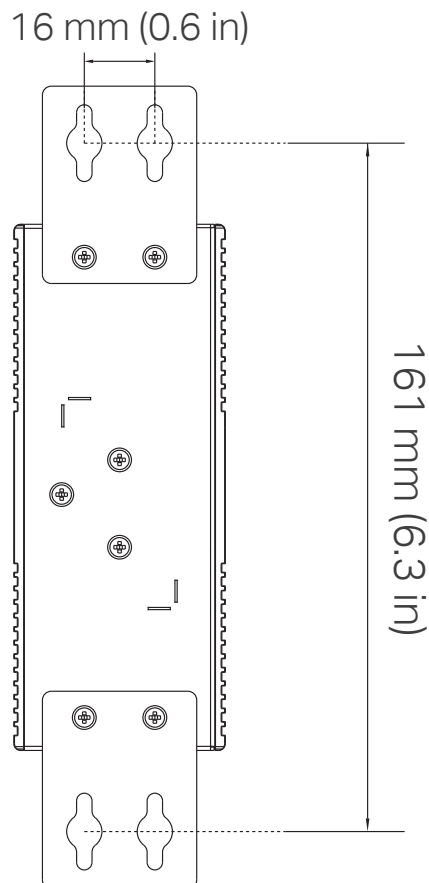


2) DIN-rail

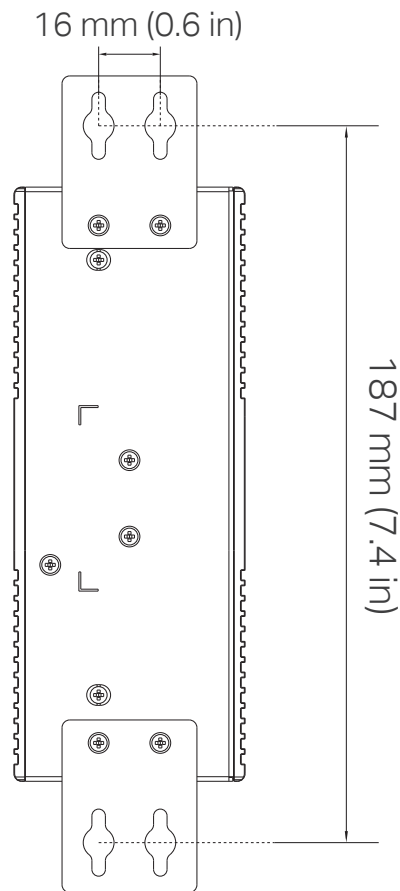


- Wall-mounting dimensions

1) Non-PoE Switch (For IES206G/ IES208G)



2) PoE Switch (For IES206GPP/ IES210GPP)



• 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 $-40^{\circ}\text{C}\sim 75^{\circ}\text{C}$.

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](#).



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 you can set a new login username and password.

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
