

1. Package Contents

Thank you for purchasing PLANET Industrial 2-port 10/100/1000T 802.3at PoE+ Injector Hub, IPOE-260/IPOE-260-12V. In the following section, the term **"Industrial PoE+ Injector Hub"** means the IPOE-260 or IPOE-260-12V.

Open the box of the Industrial PoE+ Injector Hub and carefully unpack it. The box should contain the following items:

Industrial PoE+ Injector Hub x 1	User's Manual x 1	Wall-mount Kit x 1
		
DIN-rail Kit x 1	RJ45 Dust Caps x 4	
		

If any of these are missing or damaged, please contact your dealer immediately.

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Power Consumption (Ethernet Full Loading)	Max. 2 watts/6.8 BTU (Power on without any connection) Max. 80 watts/272.9 BTU (Full loading with PoE function)	Max. 4 watts/13.6 BTU (Power on without any connection) Max. 80 watts/272.9 BTU (Full loading with PoE function)
Dimensions (W x D x H)	30 x 70 x 105 mm	
Weight	280g	280g
Enclosure	IP30 metal case	
Installation	DIN-rail kit and wall-mount kit	
ESD Protection	6KV	
EFT Protection	6KV	
Power over Ethernet		
PoE Standard	IEEE 802.3at Power over Ethernet Plus/ mid-span PSE	
PoE Power Output	48V DC input: Per PoE port max. 32 watts 56V DC input: Per PoE port max. 36 watts	Per port 54V DC, max. 36 watts
PoE Power Supply Type	Mid-span	
Power Pin Assignment	4/5 (+), 7/8 (-)	

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3. Hardware Introduction

3.1 Switch Front Panel

The front panels of the Industrial PoE+ Injector Hubs consist of Ethernet interfaces and LED indicators.

■ Front View

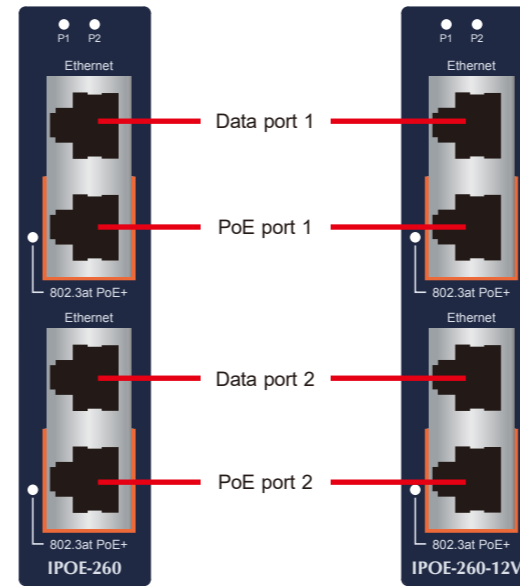


Figure 1:
IPOE-260 Front View

Figure 2:
IPOE-260-12V Front View

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2. Product Specifications

Model	IPOE-260	IPOE-260-12V
Hardware Specifications		
Copper Ports	2 pair 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports: • Data input port 1 and PoE output port 1 • Data input port 2 and PoE output port 2	
Connector	Removable 4-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for Power 2	
LED Indicator	System: Power 1 (Green), Power 2 (Green), PoE Port: 802.3at PoE+ x 2 (Green + Orange)	
Network Cable	Twisted-pair cable up to 100 meters (328ft) 10BASE-T: 4-pair UTP Cat. 3, 4, 5, 5e, 6 100BASE-TX: 4-pair UTP Cat. 5, 5e, 6 1000BASE-T: 4-pair UTP Cat. 5e, 6	
Data Rate	10/100/1000Mbps	
Power Requirements	48~56V DC, redundant power with reverse polarity protection function.	12~56V DC, redundant power with reverse polarity protection function.

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PoE Power Budget (max.)	72 watts@48~56V DC input	60W @12~23V DC input 72W @24~56V DC input
Number of devices that can be powered	2	
Standards Conformance		
Regulatory Compliance	FCC Part 15 Class A, CE	
Stability Testing	IEC 60068-2-32 (free fall) IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)	
Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3at Power over Ethernet Plus	
Environment		
Temperature	Operating: -40~75 degrees C Storage: -40~75 degrees C	
Humidity	Operating: 5~90% (non-condensing) Storage: 5~90% (non-condensing)	

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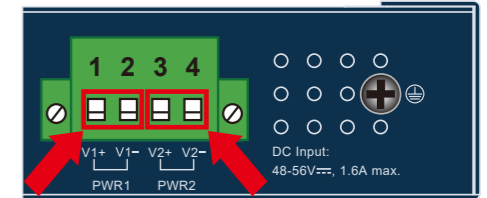
3.4 Wiring the Power Inputs

The terminal block connector on the top panel of Industrial PoE+ Injector Hub is used for two DC redundant power inputs. Please follow the steps below to insert the power wire.

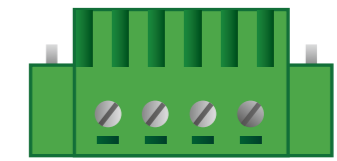


When performing any of the procedures like inserting the wires or tightening the wire-clamp screws, make sure the power is OFF to prevent from getting an electric shock.

1. Insert positive and negative DC power wires into contacts 1 and 2 for POWER 1, or contacts 3 and 4 for POWER 2.



2. Tighten the wire-clamp screws for preventing the wires from loosening.



1 2 3 4
Power 1 Power 2
+ - + -

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3.2 LED Definition:

LED	Color	Function
P1	Green	Lights to indicate power input 1 has power.
P2	Green	Lights to indicate power input 2 has power.
802.3at PoE+	Green	Lights to indicate the device is providing PoE power to 802.3af PD.
PoE-in-Use	Green + Amber	Lights to indicate the device is providing PoE power to 802.3at PD.

3.3 Switch Upper Panel

The upper panels of the Industrial PoE+ Injector Hubs consist of one terminal block connector within two power inputs.

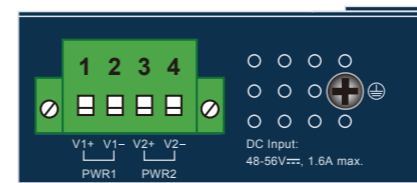


Figure 3: IPOE-260 Top View

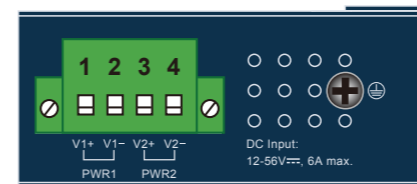
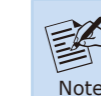


Figure 4: IPOE-260-12V Top View

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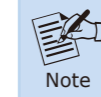
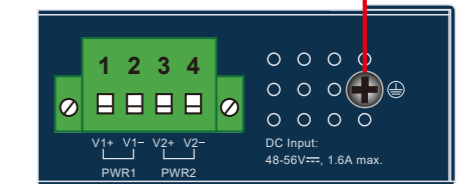


The wire gauge for the terminal block should be in the range between 12 and 24 AWG.

3.5 Grounding the Device

Users **MUST** complete grounding wired with the device; otherwise, a sudden lightning could cause fatal damage to the device.

Earth Ground



EMD (Lightning) DAMAGE IS NOT COVERED UNDER WARRANTY.

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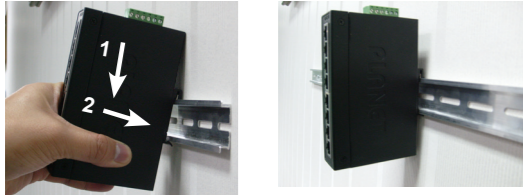
4. Installation

This section guides you to installing the Industrial PoE+ Injector Hub on the DIN rail and wall. Please read this chapter completely before continuing.



In the installation steps below, this manual uses PLANET IGS-801 8-port Industrial Gigabit Switch as an example. The steps for PLANET Industrial Slim-type Switch, Industrial Media/Serial Converter and Industrial PoE devices are similar.

4.1 DIN-rail Mounting Installation



4.2 Wall-mount Plate Mounting



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4.3 Side Wall-mount Plate Mounting



You must use the screws supplied with the wall-mounting brackets. Damage caused to the parts by using incorrect screws would invalidate your warranty.

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5. Three-View Diagram

■ IPOE-260

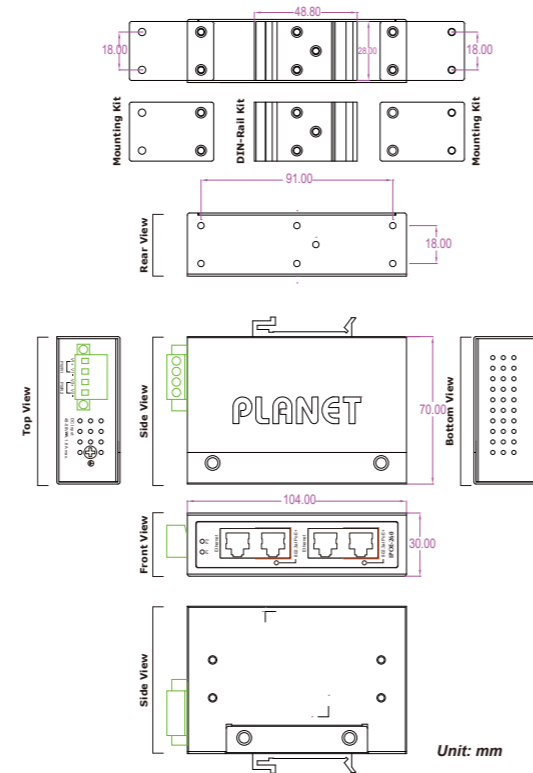


Figure 5: IPOE-260 Three-View Diagram

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■ IPOE-260-12V

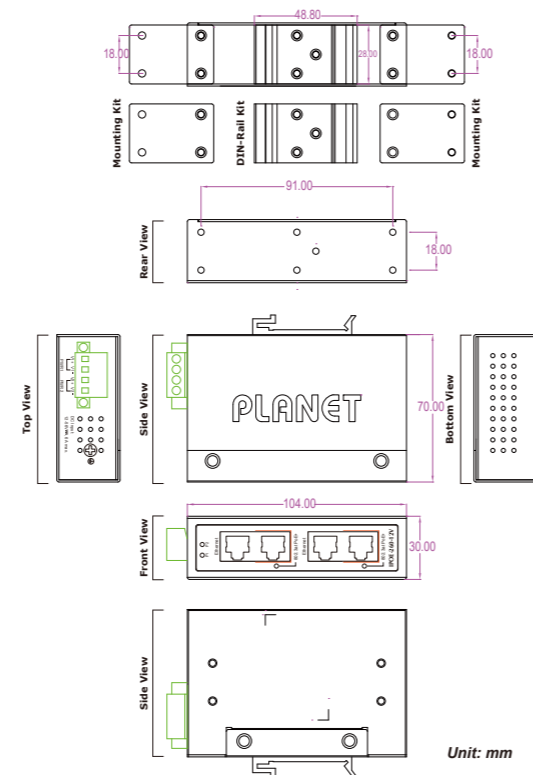


Figure 6: IPOE-260-12V Three-View Diagram

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User's Manual

www.PLANET.com.tw

Industrial 2-Port 10/100/1000T
802.3at PoE+ Injector Hub

IPOE-260 Series



PLANET Technology Corp.

10F., No. 96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan

Warning:
This device is compliant with Class A of CISPR 32.
In a residential environment this device may cause radio interference.
2350-AH8020-000



Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource on PLANET web site first to check if it could solve your issue. If you need more support information, please contact PLANET support team.

PLANET online FAQs:
<http://www.planet.com.tw/en/support/faq>

Support team mail address:
support@planet.com.tw

FCC Warning

This device 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.

WEEE Warning



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

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