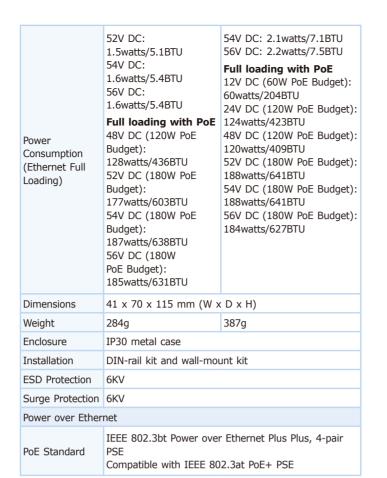
1. Package Contents

Thank you for purchasing PLANET Industrial 2-port Multi-Gigabit 802.3bt PoE++ Injector Hub, IPOE-270/IPOE-270-12V. In the following sections, the term "Industrial PoE++ Injector Hub" means the IPOE-270 or IPOE-270-12V.

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



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

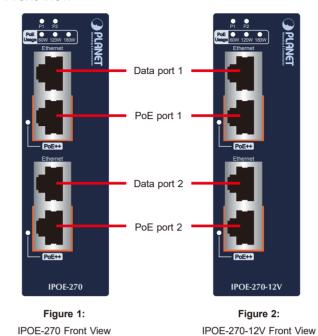


3. Hardware Introduction

3.1 Device Front Panel

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

■ Front View



3.2 Device Upper Panel

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





Figure 3: IPOE-270 Top View

Figure 4: IPOE-270-12V Top View

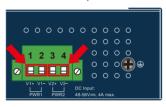
3.3 Wiring the Power Inputs

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.





- 1 -

2-pair 10/100/1G/2.5G/5GBASE-T RJ45:

• Data input port 1 and PoE output port 1

• Data input port 2 and PoE output port 2

PoE Usage: 60W/120W/180W (Amber)

Pins 1 and 2 for Power 1; Pins 3 and 4 for Power 2

802.3bt PoE++ Port: PoE-in-use x 1 (Green:bt.

12~56V DC.

loading

redundant power with

System ON without

reverse polarity protection.

12V DC: 1.8watts/6.1BTU

24V DC: 2.4watts/8.1BTU

48V DC: 2.4watts/8.1BTU

52V DC: 2.6watts/8.8BTU

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

2.5G/5GBASE-T: 4-pair UTP Cat.6, 6A,7

1000BASE-T: 4-pair UTP Cat. 5e, 6

- 2 -

10/100/1000/2500/5000Mbps

Removable 4-pin terminal block

System: Power 1 (Green)

IPOE-270-12V

Power 2 (Green)

2. Product Specifications

Amber:at)

48~56V DC,

protection

loading

48V DC:

redundant power

1.4watts/4.7BTU

with reverse polarity

System ON without

IPOE-270

Model

Copper Ports

LED Indicator

Network Cable

Data Rate

Requirements

Consumption

Loading)

(Ethernet Full

Power

Power

Connector

Hardware Specifications

- 3 -

End-span + Mid-span

Power Pin End-span: 1/2 (-), 3/6 (+); Mid-span: 4/5 (+), 7/8 Assignment (-) 120W@48V DC input 60W@12V DC input 120W@24V/48V DC input PoE Power 180W@52V/54V/56V

Number of devices that can 2 be powered

Budget (max.)

Regulatory

PoF Power

Supply Type

Standards Conformance

FCC Part 15 Class A, CE Compliance IEC 60068-2-32 (free fall) Stability Testing IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)

DC input

IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet Standards IEEE 802.3ab Gigabit Ethernet IEEE 802.3bz 2.5G/5GBASE-T Compliance IEEE 802.3at Power over Ethernet Plus IEEE 802 3ht Power over Ethernet Plus Plus

Environment Operating: -40~75 degrees C Temperature Storage: -40~75 degrees C

Operating: 5~90% (non-condensing) Storage: 5~90% (non-condensing)

- 4 -

Humidity

input

180W@52V/54V/56V DC

■ System LEDs

LED	Color	Function
P1	Green	Lights to indicate DC power input 1 has power.
P2	Green	Lights to indicate DC power input 2 has power.
PoE Usage	Amber	60W, 120W, 180W Lights to indicate the system consumes over 60-/120-/180-watt PoE power budget. Blinks to indicate the system consumes less 60-/120-/180-watt PoE power budget.

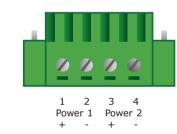
- 5 -

■ 802.3bt PoE++ TP Interface LEDs

LED	Color	Function
802.3bt PoE++ PoE-in-Use	Green	Lights to indicate that the port is providing 802.3bt PoE++ power to remote powered device.
		Off or blink to indicate that the port is not providing PoE power to remote powered device.
	Amber	Lights to indicate that the port is providing 802.3at PoE+ power to remote powered device.
		Off or blink to indicate that the port is not providing PoE power to remote powered device.

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

- 7 -

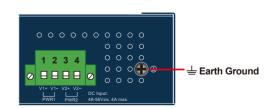




The wire gauge for the terminal block should be in the range between 12 and 24 AWG.

3.4 Grounding the Device

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





EMD (Lightning) DAMAGE IS NOT CONVERED 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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5. Three-View Diagram

■ IPOE-270

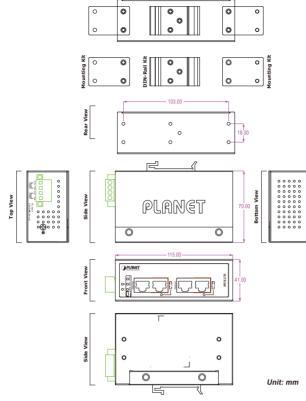


Figure 5: IPOE-270 Three-View Diagram

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4.3 Side Wall-mount Plate Mounting







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

■ IPOE-270-12V

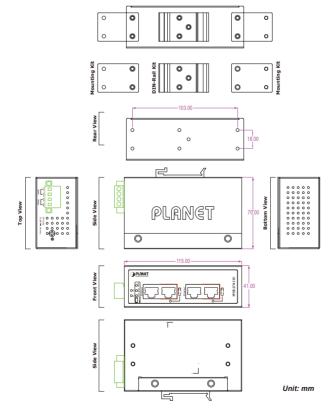


Figure 6: IPOE-270-12V Three-View Diagram



User's Manual

www.PLANET.com.tw

Industrial 2-Port Multi-Gigabit 802.3bt PoE++ Injector Hub

▶ IP0E-270 Series



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



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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