



1. Package Contents

Thank you for purchasing PLANET IGS-504PT Industrial 5-Port Gigabit Ethernet Switch with 4 PoE+ ports. The interfaces of these models are shown below:

In the following section, the term **"Industrial PoE+ Switch"** means the IGS-504PT. Open the box of the Industrial PoE+ Switch and carefully unpack it. The box should contain the following items:

Industrial PoE+ Switch x 1		User's Manual x 1	
			
Wall-mount Kit x 1	DIN-rail Kit x 1	RJ45 Dust Caps x 5	
			

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

- 1 -

2. Product Specifications

Model	IGS-504PT
Hardware Specifications	
Copper Ports	5 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
PoE Injector Ports	4 ports with 802.3at PoE+ injector function (Ports 1 to 4)
PoE Budget	120W maximum@75 degrees C
Connector	Removable 4-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for Power 2
Power Requirements	48~54V DC , 3A (max.) Redundant power with reverse polarity protection function
Power Consumption	<ul style="list-style-type: none"> ■ DC 48V: Max. 0.48 watts/1.63BTU (System) Max. 62.88 watts/214.5BTU (Full Loading) ■ DC 54V: Max. 0.54 watts/1.84BTU (System) Max. 123.12 watts/420BTU (Full Loading)
Dimensions (W x D x H)	30 x 70 x 104 mm
Weight	260g
Enclosure	IP30 metal case
Installation	DIN-rail kit and wall-mount kit
ESD Protection	6KV

- 2 -

Switch Specifications	
Switch Architecture	Store-and-Forward
Switch Fabric	10Gbps
Throughput (packet per second)	7.4Mpps@64bytes
Address Table	2K entries
Jumbo Frame	9Kbytes
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex
Power over Ethernet	
PoE Standard	IEEE 802.3at Power over Ethernet Plus/PSE Backward compatible with IEEE 802.3af Power over Ethernet/PSE
PoE Power Supply Type	End-span
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Output	Per port 48-54V DC Max. 30 watts@54V DC Max. 15 watts@48V DC
PoE Power Budget	Max. 120 watts@54V DC Max. 60 watts@48V DC
Max. Number of Class 4 PDs	4

- 3 -

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 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet (EEE) IEEE 802.3at Power over Ethernet Plus PSE IEEE 802.3af Power over Ethernet Plus IEEE 802.1p Class of Service
Environment	
Temperature	Operating: -40~75 degrees C Storage: -40~75 degrees C
Humidity	Operating: 5~90% (non-condensing) Storage: 5~90% (non-condensing)

- 4 -

3. Hardware Introduction

3.1 Switch Front Panel

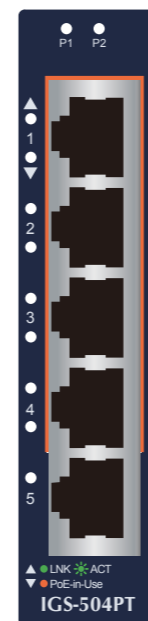


Figure 3-1:
IGS-504PT Front View

■ **Gigabit Ethernet TP Interface**
10/100/1000BASE-T copper, RJ45 twisted-pair: Up to 100 meters.

- 5 -

3.2 LED Indicators

➤ System

LED	Color	Function
P1	Green	Lights to indicate power 1 has power.
P2	Green	Lights to indicate power 2 has power.

➤ Per 802.3at PoE+ 10/100/1000BASE-T Interface (Port 1 to Port 4)

LED	Color	Function
LNK/ACT	Green	Lights to indicate the link through that port is successfully established at 10/100/1000Mbps. Blinks to indicate that the Switch is actively sending or receiving data over that port.
PoE-in-Use	Amber	Lights to indicate the port is providing DC in-line power. Off to indicate the connected device is not a PoE powered device (PD).

➤ Per 10/100/1000BASE-T Interface (Port 5)

LED	Color	Function
LNK/ACT	Green	Lights to indicate the port is successfully established at 10/100/1000Mbps. Blinks to indicate that the Switch is actively sending or receiving data over that port.

- 6 -

3.3 Switch Upper Panel

The upper panel of the Industrial PoE+ Switch consists of one terminal block connector within two DC power inputs.

Figure 3-2 shows the upper panel of the Industrial PoE+ Switch.

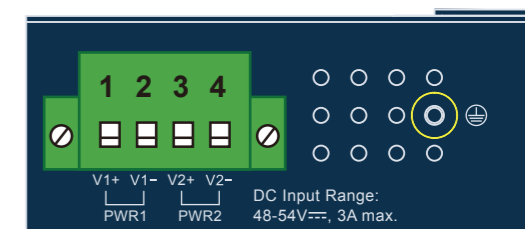


Figure 3-2: Industrial PoE+ Switch Upper Panel

3.4 Wiring the Power Inputs

The 4-contact terminal block connector on the top panel of Industrial PoE+ Switch 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.

- 7 -

1. The DC power input range is **48V ~ 54V DC**. Please insert positive and negative DC power wires into contacts 1 and 2 for POWER 1, or 3 and 4 for POWER 2.

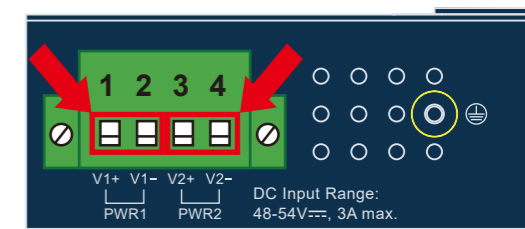


Figure 3-3: Industrial PoE+ Switch DC Input

DC Input	Max. PoE Budget
48V~51V	60 watts
52V~54V	120 watts



1. To avoid damage, please use the Industrial PoE+ Switch according to its specifications.
2. Please follow the table above for DC input in relation with maximum PoE budget.

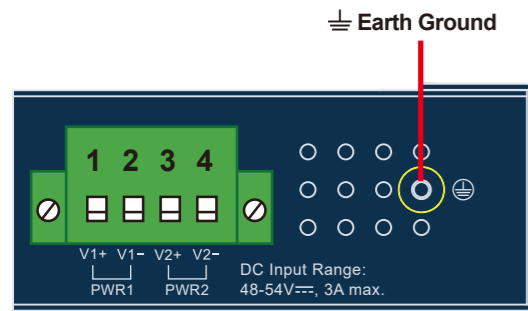
- 8 -

3.5 Grounding the Device

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



EMD (Lightning) DAMAGE IS NOT COVERED UNDER WARRANTY.



4. Installation

This section describes the functionalities of the Industrial PoE+ Switch's components and guides you to installing it on the DIN-rail and wall. Basic knowledge of networking is assumed. Please read this chapter completely before continuing.



This following pictures show how to install the device. However, the device in the picture is not IGS-504PT.

4.1 DIN-rail Mounting Installation



4.2 Wall-mount Plate Mounting



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.

5. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource at the 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:
<https://www.planet.com.tw/en/support/faq?method=category&c1=3>
 Support team mail address:
support@planet.com.tw

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Compact Industrial 4-Port 10/100/1000T 802.3at PoE + 1-Port 10/100/1000T Ethernet Switch

IGS-504PT

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-AH5080-000



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.



For the following equipment:
 *Type of Product : Industrial Compact 4-Port 10/100/1000T 802.3at PoE + 1-Port 10/100/1000T Ethernet Switch
 *Model Number : IGS-504PT

* Produced by:
 Manufacturer's Name : **Planet Technology Corp.**
 Manufacturer's Address : 10F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan

is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directive on 2014/30/EU.

For the evaluation regarding the EMC, the following standards were applied:

EN 55032	2015+AC:2016
EN 55024	2010+A1:2015
EN 55035	2017

Responsible for marking this declaration if the:

Manufacturer Authorized representative established within the EU
 Authorized representative established within the EU (if applicable):
 Company Name: Planet Technology Corp.
 Company Address: 10F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan
 Person responsible for making this declaration
 Name, Surname: Kent Kang
 Position / Title: Director

Taiwan
Place

15th Apr., 2021
Date

Kent Kang
Legal Signature