

**Compact Industrial 4-Port 10/100TX 802.3at PoE
+ 1-Port 100/100TX Ethernet Switch**

ISW-504PT-E

User's Manual

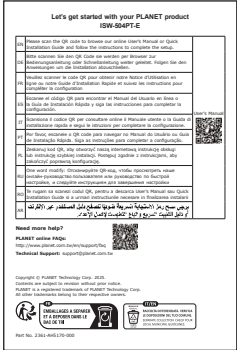
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1. Package Contents

Thank you for purchasing PLANET Compact Industrial 4-Port 10/100TX 802.3at PoE + 1-Port 100/100TX Ethernet Switch, ISW-504PT-E. In the following section, the term **“Industrial PoE Ethernet Switch”** means the ISW-504PT-E.

Open the box of the Industrial Ethernet Switch and carefully unpack it. The box should contain the following items:

Industrial Ethernet Switch x 1		QR Code Sheet x 1	
			
DIN-rail Kit x 1	Wall-mount Kit	RJ45 Dust Cap x 5	
			

If any of these are missing or damaged, please contact your dealer immediately; if possible, retain the carton including the original packing material, and use them again to repack the product in case there is a need to return it to us for repair.

2. Product Specifications

Product	ISW-504PT-E
Hardware Specifications	
Copper Ports	5 x 10/100BASE-TX RJ45 auto-MDI/MDI-X ports, auto negotiation
Switch Architecture	Store-and-Forward
Switch Fabric	1Gbps (non-blocking)
Throughput (packet per second)	0.744Mpps@ 64 bytes
Address Table	1K entries
Shared Data Buffer	448K bits
Flow Control	IEEE 802.3x pause frame for full-duplex Back pressure for half-duplex
ESD Protection	6KV DC
Enclosure	IP40 metal case
Installation	DIN-rail kit and wall-mount kit (Side wall mount is an optional accessory)
Connector	Removable 4-pin terminal block for power input Pin 1/2 for Power 1, Pin 3/4 for Power 2 One for DC jack with central pole 2.1mm with Power 3
LED Indicator	System: Power (Green) Per 10/100TX RJ45 Ports: 10/100 LNK/ACT (Green)
Dimensions (W x D x H)	30.2 x 76.1 x 100 mm
Weight	266g
Power Requirements	Dual 48~55V DC
Power Consumption	Max. 128 watts/436.8 BTU (Ethernet full loading)

DIP Switch	Standard: In Normal mode, all interfaces can communicate with each other. Transmission distance is within 100 meters, and transmission rate is 10/100Mbps. Extend: In Link Extension mode, the data transmission distance for Ports 1 to 4 can be extended to 250 meters, and transmission speed is 10Mbps.
Power over Ethernet Specifications	
PoE Standard	IEEE 802.3af/at PoE+ PSE
PoE Power Supply Type	End-span
PoE Power Output	30W (max.)
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Budget	120 watts (max.)
Standards Conformance	
Regulatory Compliance	FCC Part 15 Class A, CE
Stability Testing	IEC60068-2-32 (free fall) IEC60068-2-27 (shock) IEC60068-2-6 (vibration)
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x flow control and back pressure IEEE 802.3az Energy Efficient Ethernet (EEE) IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus
Environment	
Operating Temperature	-40 ~ 75 degrees C
Storage Temperature	-40 ~ 85 degrees C
Operating Humidity	10 ~ 90% (non-condensing)
Storage Humidity	5 ~ 95% (non-condensing)

3. Hardware Introduction

3.1 Three-View Diagram

The three-view diagram of the **Industrial Ethernet Switch** consists of five or eight auto-sensing 10/100BASE-TX **RJ45 port** and one **removable 4-pin terminal block**. The LED indicators are also located on the front panel.

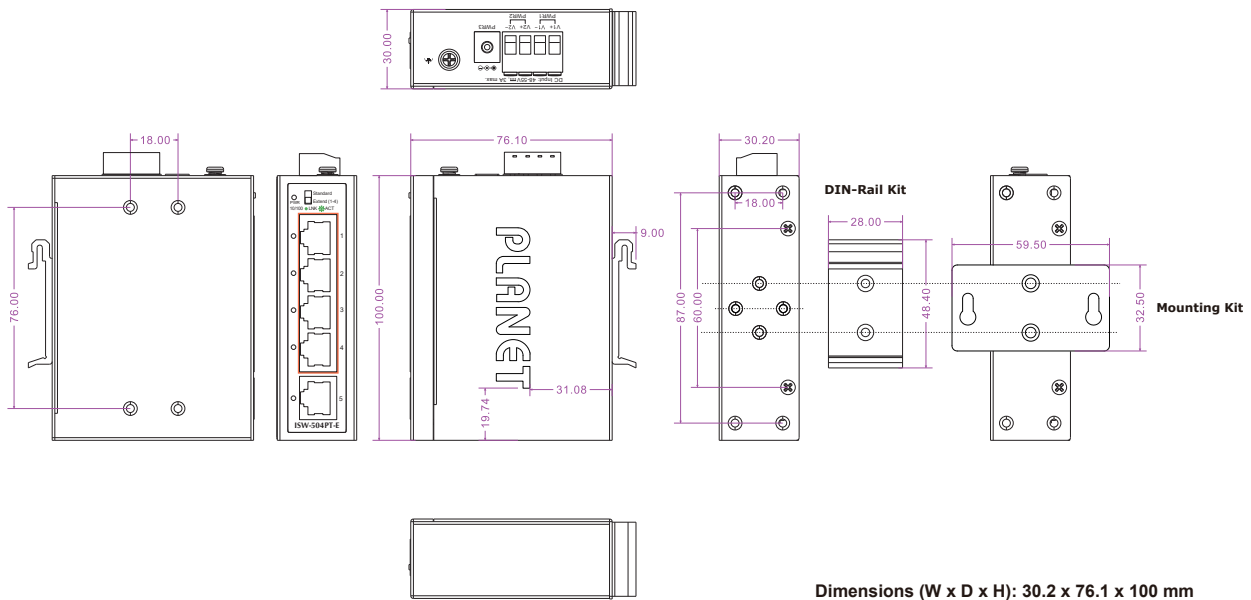


Figure 1: ISW-504PT-E Three-View Diagram

3.2 Front View

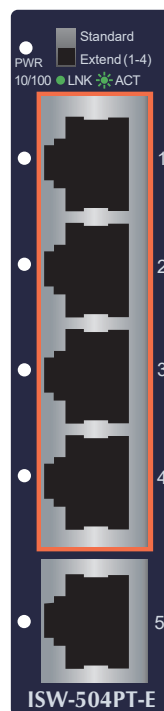


Figure 2: ISW-504PT-E Front View

3.3 LED Definition

■ System

LED	Color	Function
PWR	Green	Lights to indicate DC power input has power.

■ Per 10/100BASE-TX Port

LED	Color	Function	
10/100 LNK/ACT	Green	Lights	Indicating the port is running at 10/100Mbps and successfully established.
		Blinks	Indicating that the switch is actively sending or receiving data over that port.

3.4 Top View

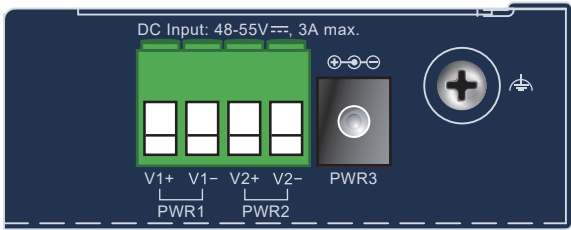


Figure 3: ISW-504PT-E Top View

3.5 Wiring the Power Inputs

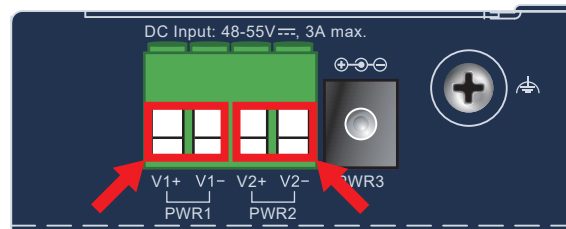
The 4-contact terminal block connector on the top panel of Industrial Ethernet Switch is used for two DC redundant power inputs. Please follow the steps below to insert the power wire.



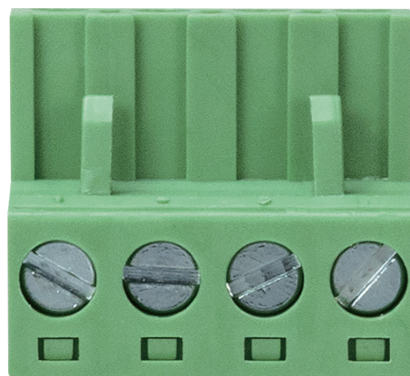
Caution

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	
+	-	+	-



Note

1. The wire gauge for the terminal block should be in the range between 12 and 24 AWG.
2. The DC power input range is 48V ~ 55V DC.

3.6 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 COVERED UNDER WARRANTY.

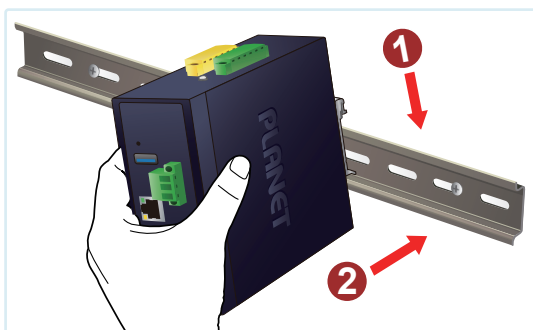
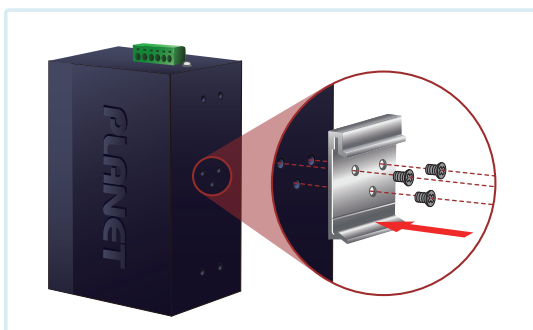
4. Installation

This section describes the functionalities of the Industrial Ethernet Switch's components and guides you to installing it on the DIN rail and wall. Please read this chapter completely before continuing.



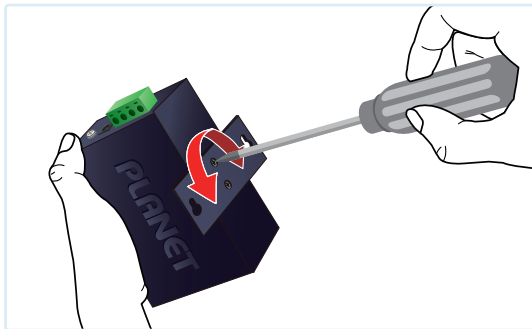
This following pictures show the user how to install the device, and the device is not ISW-504PT-E.

4.1 DIN-rail Mounting Installation



Place the bracket on the back of the device and with the given 3 screws, tighten them. Slide the device with the bracket mounted through the DIN-rail to finish the installation.

4.2 Wall-mount Plate Mounting



Place the mounting plate on the back of the device, and tighten it with the given screws. Then put the device with the plate mounted on the wall, and screw them to finish the installation.



Caution

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 on PLANET web site first to check if it could solve your issue. If you need more support information, please contact PLANET switch support team.

PLANET online FAQs:

<http://www.planet.com.tw/en/support/faq.php>

Switch support team mail address:

support@planet.com.tw

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FCC Warning

This equipment has been tested and found to comply with the regulations 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 this user's guide, 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.

Avertissement de la FCC

Cet équipement a été testé et jugé conforme à la réglementation pour un appareil numérique de classe A, conformément à la partie 15 des règles de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles lorsque l'équipement est utilisé dans un environnement commercial. Cet équipement génère, utilise et peut émettre de l'énergie radiofréquence et, s'il n'est pas installé et utilisé conformément au présent guide de l'utilisateur, peut causer des interférences nuisibles aux communications radio. Le fonctionnement de ces équipements dans une zone résidentielle est susceptible de provoquer des interférences préjudiciables, auquel cas l'utilisateur sera tenu de corriger les interférences à ses propres frais.

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.

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

Avertissement de marquage CE

Il s'agit d'un produit de classe A. Dans un environnement domestique, ce produit peut provoquer des interférences radio, auquel cas l'utilisateur peut être tenu de prendre des mesures adéquates.

Cet équipement est conforme à la classe A du CISPR 32. Dans un environnement résidentiel, cet équipement peut causer des interférences radio.

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.

Avertissement WEEE



Afin d'éviter les effets potentiels sur l'environnement et la santé humaine résultant de la présence de substances dangereuses dans les équipements électriques et électroniques, les utilisateurs finaux d'équipements électriques et électroniques devraient comprendre la signification du symbole du bac à roulettes barré. Ne jetez pas les WEEE en tant que déchets municipaux non triés et devez les collecter séparément.