






1. Package Contents

Thank you for purchasing PLANET Industrial Ethernet Switch, ISW-501T/ISW-801T. In the following sections, the term “Industrial Ethernet Switch” means the ISW-501T or ISW-801T.

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

Industrial Ethernet Switch x 1 	User's Manual x 1 	RJ45 Dust Cap x 5 (8) 
DIN-rail Bracket w/ Screws x 1 	Wall-mount Plate w/Screws x 1 set 	

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.

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2.2 LED Indicators

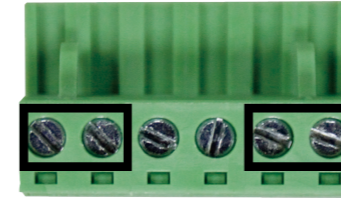
LED	Color	Function
P1	Green	Lit: indicates Power 1 has power.
P2	Green	Lit: indicates Power 2 has power.
FAULT	Green	Lit: indicates either Power 1 or Power 2 has no power.
10/100 LNK/ACT	Green	Lit: indicates the Switch is successfully connecting to the network at 100Mbps or 10Mbps. Off: indicates that the Switch is not successfully connecting to the network at 100Mbps or 10Mbps. Blinking: indicates that the Switch is actively sending or receiving data over that port.

2.3 Switch Upper Panel

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

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



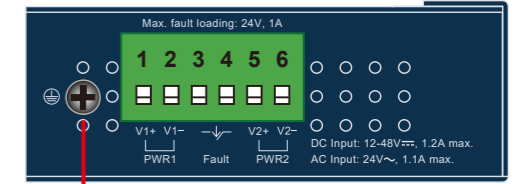
1 2 3 4 5 6
V1+ V1- Fault V2+ V2-
Power 1 Power 2

- Note**
- The wire gauge for the terminal block should be in the range between 12 and 24 AWG.
 - The power input range is DC 12V ~ 48V and supports AC 24V.
 - Use one power input when using AC 24V.

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2.6 Grounding the Device

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



Earth Ground

- Note**
- EMD (Lightning) DAMAGE IS NOT COVERED UNDER WARRANTY.

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2. Hardware Introduction

2.1 Switch Front Panel

The front panel of the Industrial Ethernet Switch consists of Ethernet interfaces and LED indicators.

■ Front View

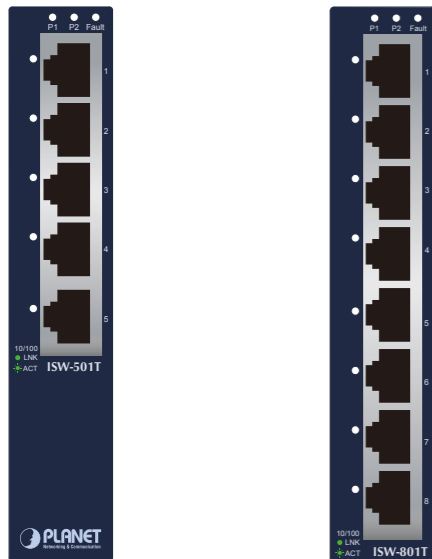


Figure 1: ISW-501T Front View

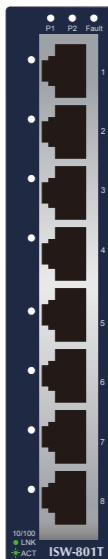


Figure 2: ISW-801T Front View

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Figure 3 shows the upper panel of the Industrial Ethernet Switch.

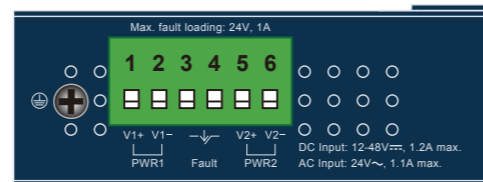
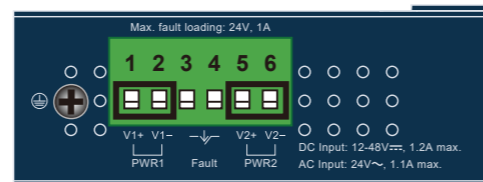


Figure 3: ISW-501T and ISW-801T Top View

2.4 Wiring the Power Inputs

The Upper Panel of the Industrial Ethernet Switch indicates a DC inlet power socket and consists of one terminal block connector within 6 contacts. Please follow the steps below to insert the power wire.

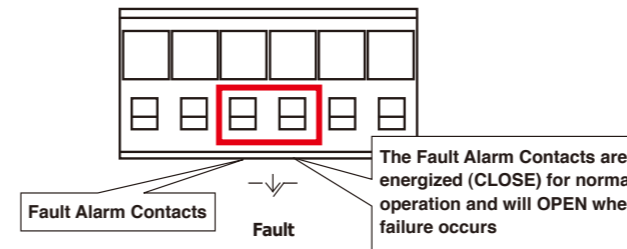
- Insert positive/negative DC power wires into Contacts 1 and 2 for Power 1, or 5 and 6 for Power 2.



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2.5 Wiring the Fault Alarm Contact

The fault alarm contacts are in the middle of the terminal block connector as the picture shows below. Inserting the wires, the Industrial Ethernet Switch will detect the fault status of the power failure, or port link failure and then forms an open circuit. The following illustration shows an application example for wiring the fault alarm contacts.



Insert the wires into the fault alarm contacts

- Note**
- The wire gauge for the terminal block should be in the range between 12 and 24 AWG.
 - Alarm relay circuit accepts up to 24V, 1A current (max.).

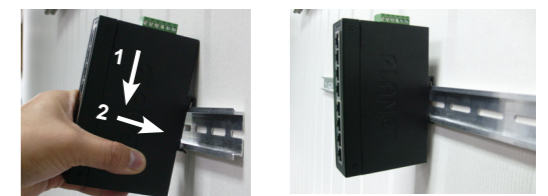
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3. Installation

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.

- Note**
- This following pictures show how to install the device. However, the device in the picture is not ISW-501T or ISW-801T.

3.1 DIN-rail Mounting Installation



3.2 Wall-mount Plate Mounting



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4. Product Specifications

Model	ISW-501T	ISW-801T
Hardware Specifications		
10/100BASE-TX Ports	5	8
LED Indicators	3 x LED for System and Power: Green: DC Power 1 Green: DC Power 2 Green: Power Fault 1 x LED per Copper Port Green: 10/100 LNK/ACT	
Enclosure	IP30-rated metal case	
Dimensions (W x D x H)	32 x 87 x 135mm	
Weight	400g	428g
ESD Protection	6KV DC	
Power Requirements	12~48V DC, redundant power with polarity reverse protection function, 24V AC power support	
Power Consumption/Dissipation	1.6 watts/5.4BTU	2.1 watts/7.1BTU

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Installation	DIN-rail kit and wall-mount ear	
Alarm	Provides one relay output for power failure; Alarm relay current carry ability: 1A @ DC 24V	
Connector	Removable 6-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for fault alarm; Pin 5/6 for Power 2	
Switch Specifications		
Switch Processing Scheme	Store-and-Forward	
Address Table	1K	
Buffer Memory	Embedded 448K bits packet buffer	
Flow Control	Back pressure for half duplex, IEEE 802.3x pause frame for full duplex	
Switch Fabric	1Gbps	1.6Gbps
Throughput (packet per second)	0.74Mpps	1.19Mpps

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Standards Conformance	
Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3x Full Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet
Temperature	Operating: -40~75 degrees C Storage: -40~75 degrees C
Humidity	Operating: 5% to 95%, Storage: 5% to 95% (non-condensing)
Regulatory Compliance	FCC Part 15 Class A, CE
Stability Testing	IEC60068-2-32 (free fall) IEC60068-2-27 (shock) IEC60068-2-6 (vibration)

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5. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource at 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>

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

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User's Manual



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-AH0290-004



EC Declaration of Conformity

For the following equipment:

*Type of Product : 5/8-Port 10/100TX Industrial Fast Ethernet Switch

*Model Number : ISW-501T, ISW-801T

* Produced by:

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

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)
EN61000-3-2	(2014)
EN61000-3-3	(2013)
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, R.O.C.

Person responsible for making this declaration

Name, Surname: Kent Kang

Position / Title: Director

Taiwan
Place

May 25, 2018
Date

Kent Kang
Legal Signature

PLANET TECHNOLOGY CORPORATION

e-mail: sales@planet.com.tw <http://www.planet.com.tw>
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