

# 1. Product Introduction

## 1.1 Package Contents

Check the contents of your package for the following parts:

- Industrial Fast Ethernet Switch x 1
- User's Manual x 1
- DIN Rail Kit x 1
- Wall-mount Kit x 1

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.

## 1.2 Product Features

### Physical Port

- 5-port 10/100BASE-TX RJ45 with auto MDI/MDI-X function (ISW-501T)
- 8-port 10/100BASE-TX RJ45 with auto MDI/MDI-X function (ISW-801T)

### Layer 2 Features

- Complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX Ethernet standard
- Supports auto-negotiation and 10/100Mbps half/full duplex mode
- High performance Store and Forward architecture, runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth
- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause frame flow control (full-duplex)
- Backplane (switching fabric): ISW-501T: 1Gbps, ISW-801T: 1.6Gbps
- Automatic address learning and address aging

### Industrial Case & Installation

- IP30 metal case
- DIN rail and wall-mount design
- 12 to 48V DC, redundant power with polarity reverse protect function and connective removable terminal block for master and slave power, 24V AC power support
- Lower Power Consumption device under full loading operation mode
- Supports EFT protection for 6000 VDC for power line
- Supports 6000 VDC Ethernet ESD protection
- -40 to 75 degrees C operating temperature
- Free fall, shock-proof and vibration-proof for industries

## 1.3 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)	135 x 87 x 32 mm	
Weight	400g	428g
ESD Protection	6KV DC	
EFT 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
Installation	DIN rail kit and wall-mount ear	
Alarm	Provides one relay output for power failure Alarm relay current carry ability: 3A @ DC 30V	
Connector	Removable 6-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for fault alarm; Pin 5/6 for Power 2	

# 2. Hardware Introduction

## 2.1 Switch Front Panel

Figures 2-1 and 2-2 show the front panels of Industrial Fast Ethernet Switches.

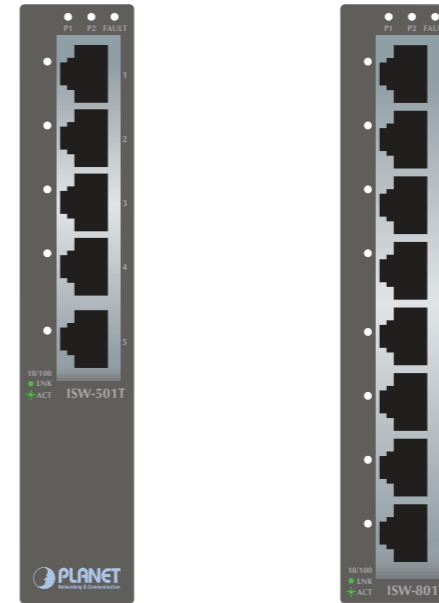


Figure 2-1: ISW-501T Front Panel

Figure 2-2: ISW-801T Front Panel

## 2.2 LED Indicators

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

## 2.3 Switch Upper Panel

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

Figure 2-3 shows the upper panel of the Industrial Fast Ethernet Switch.

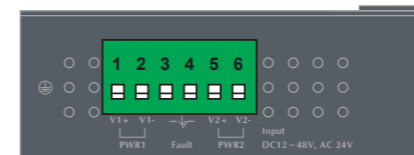


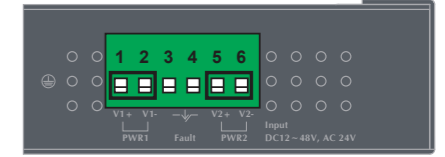
Figure 2-3: Industrial Fast Ethernet Switch Upper Panel

# 3. Installation

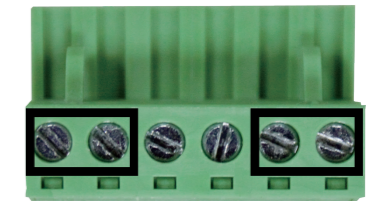
## 3.1 Wiring the Power Inputs

The Upper Panel of the Industrial Fast 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.

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



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



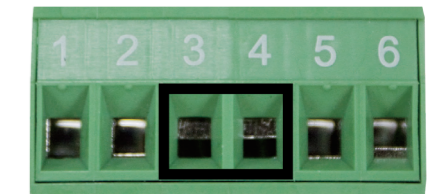
1 2 3 4 5 6  
V1+ V1- Fault V2+ V2-  
Power 1 Power 2



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

## 3.2 Wiring the Fault Alarm Contact

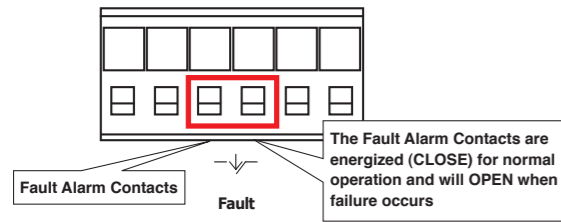
The fault alarm contacts are in the middle of the terminal block connector as the picture shows below. Inserting the wires, the Industrial Fast Ethernet Switch will detect the fault status of the power failure and then forms an open circuit. The following illustration shows an application example for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



Insert the wires into the fault alarm contacts



1. The wire gauge for the terminal block should be in the range between 12 and 24 AWG.
2. Alarm relay circuit accepts up to 30V, max. 3A currents.



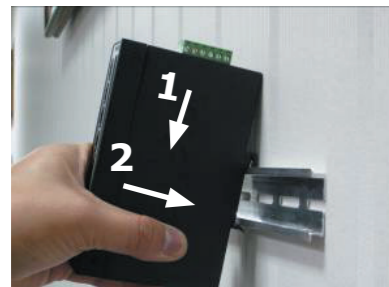
### 3.3 DIN-rail Mounting Installation

The DIN rail is screwed on the Industrial Fast Ethernet Switch when out of factory. When you need to replace the wall mount application with DIN-rail application on Industrial Fast Ethernet, please refer to the following figures to screw the DIN rail on the Industrial Fast Ethernet Switch. To hang the Industrial Fast Ethernet Switch, follow the steps below:



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**Step 1:** Screw the DIN rail on the Industrial Fast Ethernet Switch.



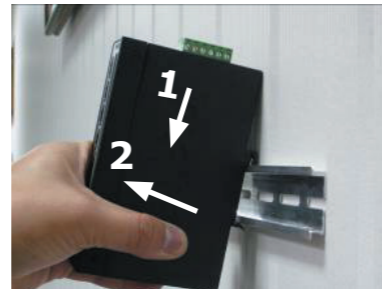
**Step 2:** Place the bottom of DIN rail lightly into the track.



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**Step 3:** Check whether the DIN rail is tightly on the track.

**Step 4:** Please refer to the following procedures to remove the Industrial Fast Ethernet Switch from the track.



**Step 5:** Lightly pull out the bottom of DIN rail to remove it from the track.

### 3.4 Wall-mount Plate Mounting Installation

To install the Industrial Fast Ethernet Switch on the wall, please follow the instructions described below.

**Step 1:** Remove the DIN rail from the Industrial Fast Ethernet Switch; loosen the screws to remove the DIN rail.

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**Step 2:** Place the wall-mount plate on the rear panel of the Industrial Fast Ethernet Switch.



**Step 3:** Use the screws to screw the wall-mount plate on the Industrial Fast Ethernet Switch.

**Step 4:** Use the hook holes at the corners of the wall-mount plate to hang the Industrial Fast Ethernet Switch on the wall.

**Step 5:** To remove the wall-mount plate, reverse the steps above.

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**Industrial Switch**  
ISW-501T/ISW-801T

**5-/8-Port Fast Ethernet Switch**



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2350-AH0290-002



## 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 FAQ :  
<http://www.planet.com.tw/en/support/faq.php?type=1>

Switch support team mail address :  
[support\\_switch@planet.com.tw](mailto:support_switch@planet.com.tw)

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### EC Declaration of Conformity

For the following equipment:

\*Type of Product: 5/8-Port 10/100Mbps Industrial 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 (2004/108/EC).

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

EN 55022	(Class A:2010/AC:2011)
EN 61000-3-2	(2014)
EN 61000-3-3	(2013)
EN 55024	(2010)
IEC 61000-4-2	(2008)
IEC 61000-4-3	(2006+A1:2008+A2:2010)
IEC 61000-4-4	(2012)
IEC 61000-4-5	(2005)
IEC 61000-4-6	(2013)
IEC 61000-4-8	(2009)
IEC 61000-4-11	(2004)

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

25 March, 2016  
Date

*Kent Kang*  
Legal Signature

PLANET TECHNOLOGY CORPORATION

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