

1. Package Content

Thank you for purchasing PLANET 5/8-Port 10/100Mbps unmanaged Industrial Fast Ethernet Switch, ISW-501T / ISW-801T. Terms of "Industrial Fast Ethernet Switch" in following section of this User's Manual means the ISW-501T / ISW-801T.

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

- The 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 against to repack the product in case there is a need to return it to us for repair.

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3. Product Specification

Model	ISW-501T	ISW-801T
Hardware Specification		
10/100Base-TX Ports	5	8
Dimensions (W x D x H)	135mm x 87mm x 32mm	
Weight	438g	454g
Power Requirement	12~48 VDC, Redundant power with polarity reverse protection function	
Power Consumption / Dissipation	11 Watts / 37BTU	11.6 Watts / 39BTU
Installation	DIN rail kit and wall mount ear	
Switch Specification		
Switch Processing Scheme	Store-and-Forward	
Address Table	2K entries	
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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4. Switch Front Panel

Figure 1 & 2 shows a front panel of Industrial Fast Ethernet Switch.

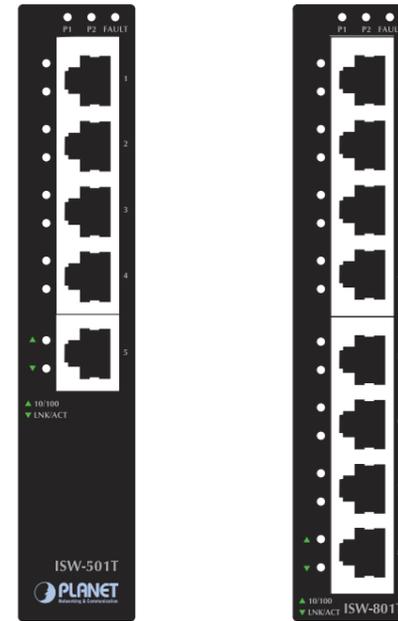


Figure 1: ISW-501T Front Panel Figure 2: ISW-801T Front Panel

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5. Switch Upper Panel

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

Figure 3 shows upper panel of Industrial Fast Ethernet Switch.

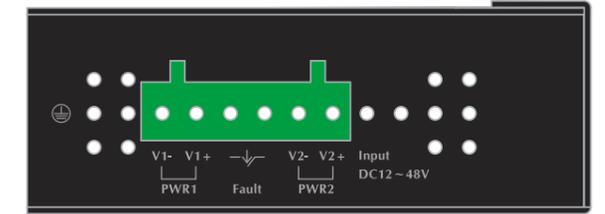


Figure 3: Industrial Fast Ethernet Switch Upper Panel

Wiring the Power Inputs

The 6-contact terminal block connector on the top panel of Industrial Fast Ethernet Switch is used for two DC redundant powers input. Please follow the steps below to insert the power wire.

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2. Product Features

Physical Port

- 5/8-Port 10/100Mbps RJ-45 with auto MDI/MDI-X function

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
- 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
- Integrated address look-up engine, support 2K absolute MAC addresses
- Automatic address learning and address aging

Industrial Case / Installation

- IP-30 Metal case / Protection
- 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
- Supports EFT protection 6000 VDC for power line
- Supports 6000 VDC Ethernet ESD protection
- -40 to 75 Degree C operation temperature
- Free fall, shock, vibration industrial stability

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Network cables	10/100Base-TX: Cat. 3, 4, 5, 5e, 6 UTP cable (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.)
Standards Conformance	
Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3x Full-duplex flow control
Temperature	Operating: -40~75 Degree C Storage: -40~75 Degree C
Humidity Operating	Operating: 5% to 90%, Storage: 5% to 90% (Non-condensing)
Regulation Compliance	FCC Part 15 Class A, CE
Stability testing	IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)

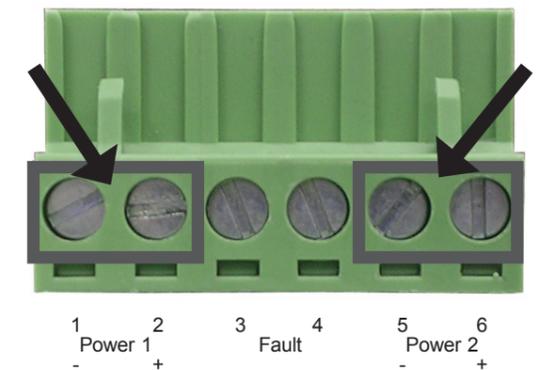
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LED Indicators

LED	Color	Function
P1	Green	Lit: indicate the power 1 has power.
P2	Green	Lit: indicate the power 2 has power.
FAULT	Green	Lit: indicate the either power 1 or power 2 has no power.
10/100	Green	Lit: indicate the Switch is successfully connecting to the network at 100Mbps. Off: indicate the Switch is successfully connecting to the network at 10Mbps.
LNK/ACT	Green	Lit: indicate the link through that port is successfully established. Blink: indicate that the Switch is actively sending or receiving data over that port.

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

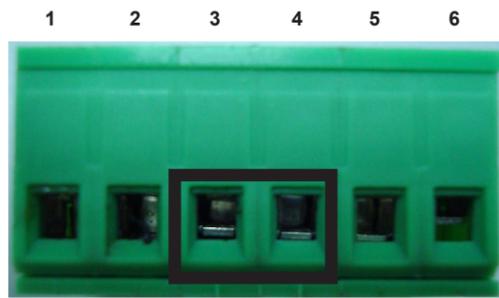


Note The wire gauge for the terminal block should be in the range between 12 ~ 24 AWG.

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, or port link failure (available for managed model) and then forms an open circuit. The following illustration shows an application example for wiring the fault alarm contacts.

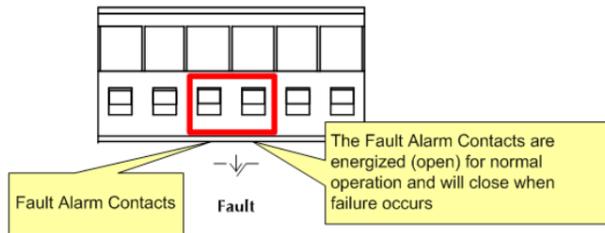
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Insert the wires into the fault alarm contacts



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



6. Mounting Installation

This section describes how to install the Industrial Fast Ethernet Switch and make connections to it. Please read the following topics and perform the procedures in the order being presented.

DIN-Rail Mounting

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



Step 1: screw the DIN-Rail on the Industrial Fast Ethernet Switch.



Step 2: Lightly press the button of DIN-Rail into the track.



Step 3: Check the DIN-Rail is tightly on the track.

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



Step 5: Lightly press the button of DIN-Rail for remove it from the track.

Wall Mount Plate Mounting

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

Step 1: Remove the DIN-Rail from the Industrial Fast Ethernet Switch; loose the screws to remove the DIN-Rail.

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



10/100Mbps 5/8-Port Fast Ethernet Switch

Industrial Ideal Device for Industrial Network Deployment



User's Manual

7. Customer Support

Thank you for purchase PLANET products. You can browse our online FAQ resource at the PLANET Web site first to check if it could solve you 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

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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 steps above.