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

ISW-501T/ISW-801T

User's Manual

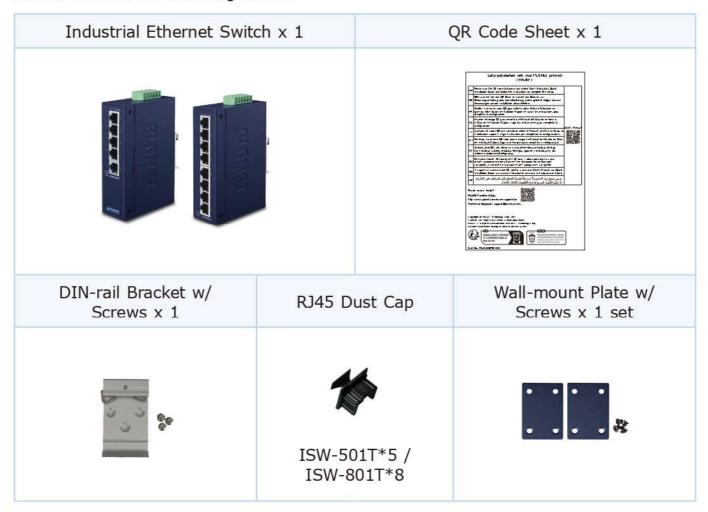
Table of Contents

1.	L. Package Contents				
2.	Hard	dware Introduction	4		
	2.1	Switch Front Panel	4		
	2.2	LED Indicators	4		
	2.3	Switch Upper Panel	5		
	2.4	Wiring the Power Inputs	5		
	2.5	Wiring the Fault Alarm Contact	6		
	2.6	Grounding the Device	7		
3.	Inst	allation	8		
	3.1	DIN-rail Mounting Installation	8		
	3.2	Wall-mount Plate Mounting	8		
	3.3	Side Wall-mount Plate Mounting	9		
4.	Product Specifications				
5.	Customer Support				

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:



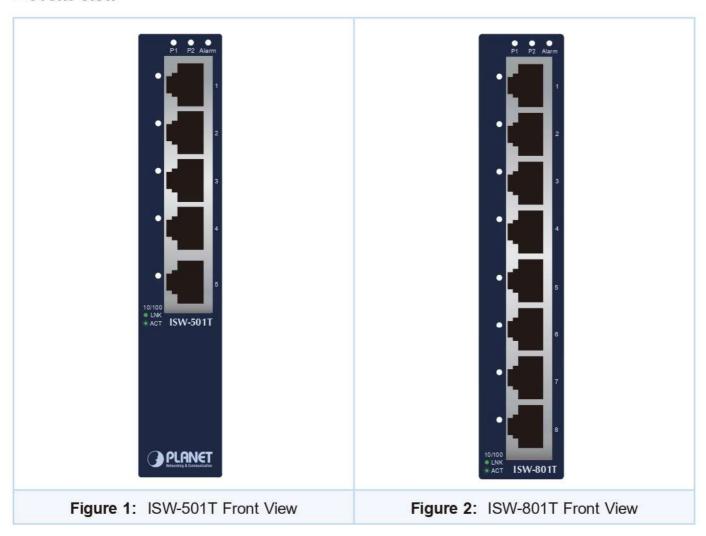
If any of these are missing or damaged, please contact your dealer immediately; if possible, retain the carton including the original packing material, and use them again to repack the product in case there is a need to return it to us for repair.

2. Hardware Introduction

2.1 Switch Front Panel

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

■ Front View



2.2 LED Indicators

■ System

LED	Color	Function
DC1	Green	Lights: to indicate DC power input 1 has power.
DC2	Green	Lights: to indicate DC power input 2 has power.
Alarm	Red	Lights: to indicate that AC or DC power has failed.

■ Per 10/100BASE-TX Port

LED	Color	Function
10/100 LNK/ACT	Green	Lights: indicating the port is running at 10/100Mbps speed and successfully established. Blinks: indicating 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.

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

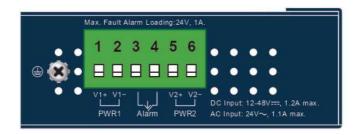


Figure 3: ISW-501T and ISW-801T Top View

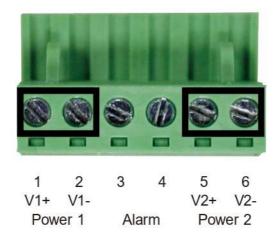
2.4 Wiring the Power Inputs

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.

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.

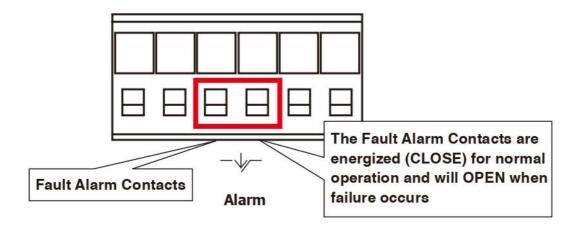




- 1. The wire gauge for the terminal block should be in the range between 12 and 24 AWG.
- 2. The power input range is DC 12V ~ 48V and supports AC 24V.
- 3. Use one power input when using AC 24V.

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.



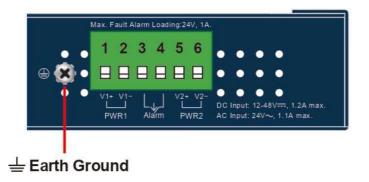
Insert the wires into the fault alarm contacts



- 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 24V, 1A current (max.).

2.6 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 CONVERED UNDER WARRANTY.

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.

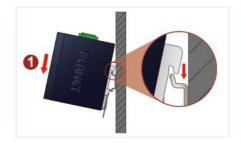


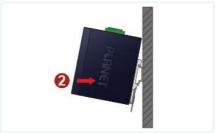
This following pictures show how to install the device. However, the device in the picture is not ISW-501T or ISW-801T.

3.1 DIN-rail Mounting Installation

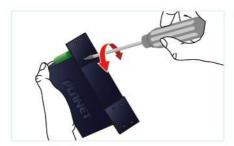








3.2 Wall-mount Plate Mounting





3.3 Side Wall-mount Plate Mounting





4. Product Specifications

Model	ISW-501T	ISW-801T	
Hardware Specifications			
Hardware Version	3		
Copper Ports	5 x 10/100BASE-TX RJ45 TP auto-MDI/MDI-X, auto negotiation	8 x 10/100BASE-TX RJ45 TP auto-MDI/MDI-X, auto negotiation	
Connector	Removable 6-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for fault alarm; Pin 5/6 for Power 2		
Alarm	Provides one relay output for power failure; Alarm relay current carry ability: 1A @ DC 24V		
LED	3 x LED for system and power: ■ Green: DC Power 1 ■ Green: DC Power 2 ■ Red: Power Alarm 1 x LED for each copper port: ■ Green: 10/100Mbps LNK/ACT		
ESD Protection	6KV		
EFT Protection	6KV		
Power Requirements	12~48V DC, redundant power with polarity reverse protection function, 24V AC power support		
Power Consumption/ Dissipation	Max. 0.9 watts/3.07BTU (Power on without any connection) Max. 1.6 watts/5.45BTU (Ethernet full loading)	Max. 0.9 watts/3.07BTU (Power on without any connection) Max. 2.1 watts/7.16BTU (Ethernet full loading)	
Installation	DIN-rail kit and wall-mount ear		
iclosure IP30-rated metal case			
Dimensions (W x D x H)	32 x 87 x 135mm		
Weight	400g	428g	
Switch Specifications			
	Store-and-Forward		

Address Table	1K		
Shared Data Buffer	448K bits		
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	
Network Cables	10/100BASE-TX Cat. 3, 4, 5, 5e, 6 UTP cable (max. 100 meters) EIA/TIA-568 100-ohm STP (max. 100 meters)		
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 PROFINET protocol		
Regulatory Compliance	FCC Part 15 Class A, CE		
Stability Testing	IEC60068-2-32 (free fall) IEC60068-2-27 (shock) IEC60068-2-6 (vibration)		
Environment			
Temperature	Operating: -40~75 degrees C Storage: -40~75 degrees C		
Humidity Operating: 5% to 95%, 5 5% to 95% (non-condense)		50 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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: https://www.planet.com.tw/en/support/faq

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

Copyright © PLANET Technology Corp. 2024.

Contents are subject to revision without prior notice.

PLANET is a registered trademark of PLANET Technology Corp.

All other trademarks belong to their respective owners.