

1. Package Contents

Thank you for purchasing PLANET Industrial Ethernet Switch, ISW-511/ISW-621 series. The descriptions of these models are shown below:

Model Name	Ports		Fiber Optical Interface	
	Copper	Optical	Mode	Distance
ISW-511	4 x 10/100BASE-TX	1 x 100BASE-FX	Multi-mode	2km
ISW-511T			Single-mode	15km
ISW-511S15			Single-mode	20km
ISW-621		2 x 100BASE-FX	Multi-mode	2km
ISW-621T			Single-mode	15km
ISW-621S15			Single-mode	20km
ISW-621TS15	Multi/Single Mode		Depending on SFP Module	

In the following sections, the term “Industrial Ethernet Switch” means the above models.

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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 	SFP Dust Cap x 2 (ISW-621TF only) 
DIN-rail Bracket w/ Screws x 1 	Wall-mount Plate w/Screws x 1 set 	RJ45 Dust Cap x 4 

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. Hardware Introduction

2.1 Switch Front Panel

The front panels of the Industrial Ethernet Switch series consist of Ethernet interfaces and LED indicators.

■ Front View



Figure 1:
ISW-511 Series
Front View



Figure 2:
ISW-621 Series
Front View

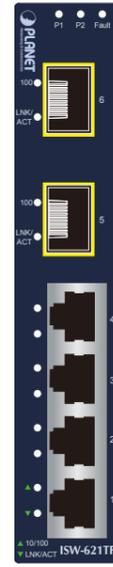


Figure 3:
ISW-621TF Front
View

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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.
100	Green	Fiber Optic Lit: indicates the fiber port is successfully connecting to the network at 100Mbps.
LNK/ACT	Green	Fiber Optic Lit: indicates the link through that port is successfully established. Blinking: indicates that the Switch is actively sending or receiving data over that port.
		Copper
10/100	Green	Copper Lit: indicates the Switch is successfully connecting to the network at 100Mbps. Off: indicates that the Switch is successfully connecting to the network at 10Mbps.

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2.3 Switch Upper Panel

The upper panel of the Industrial Ethernet Switch consists of one terminal block connector within two power inputs. Figure 4 shows the upper panel of the Industrial Ethernet Switch.

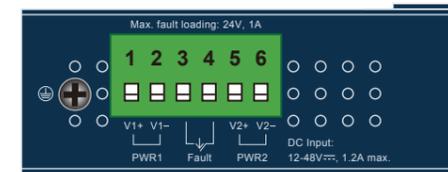
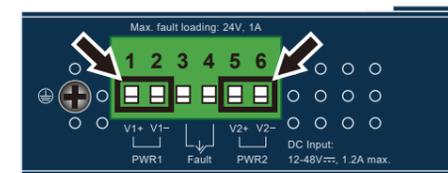


Figure 4: Industrial Ethernet Switch Upper Panel

2.4 Wiring the Power Inputs

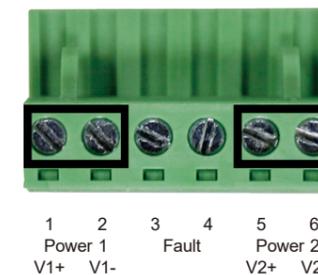
The 6-contact terminal block connector on the top panel of Industrial Ethernet Switch is used for two redundant power inputs. Please follow the steps below to insert the power wire.

1. Insert positive/negative DC power wires into contacts 1 and 2 for POWER 1, or 5 and 6 for POWER 2.



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

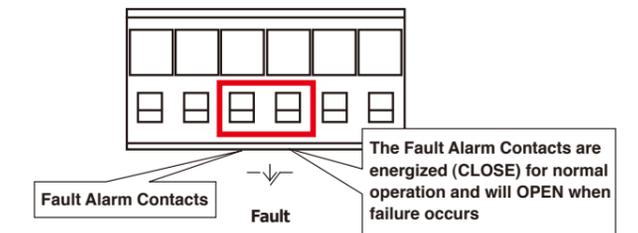


Note The wire gauge for the terminal block should be in the range between 12 and 24 AWG.

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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, and then forms an open circuit. The following illustration shows an application example for wiring the fault alarm contacts.

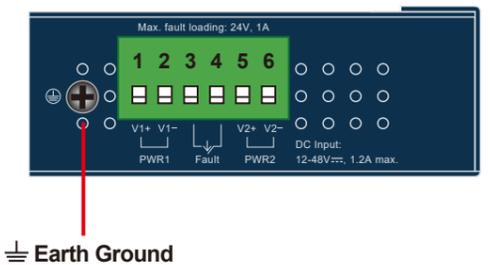


- Note**
1. The wire gauge for the terminal block should be in the range between 12 and 24 AWG.
 2. Alarm relay circuit accepts up to 24V, max. 1A currents.

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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.



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

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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.



This following pictures show how to install the device. However, the device in the picture is not ISW-511 or ISW-621 series.

3.1 DIN-rail Mounting Installation



3.2 Wall-mount Plate Mounting



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4. Product Specifications

Model	ISW-511 ISW-511T	ISW-511S15 ISW-511TS15
Hardware Specifications		
Copper	Ports	4 x 10/100BASE-TX, auto-negotiation, auto-MDI/MDI-X
	Cable	10BASE-T: 2-pair UTP Cat. 3, 4, 5 cable (max. 100 meters) 100BASE-TX: 2-pair UTP Cat. 5, 5e, 6 cable (max. 100 meters)
Fiber Optic	Port	1 x 100BASE-FX
	Cable	50/125µm fiber 62.5/125µm fiber
	Mode	multi-mode
	Distance	2km
Dimensions (W x D x H)	32 x 97 x 135 mm	
Weight	436g	
Power Requirements	12~48V DC, Redundant power with reverse polarity protection	
Power Consumption/Dissipation	9.1 watts/31BTU	
Installation	DIN-rail kit and wall-mount ear	

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Switch Specifications	
Switch Processing Scheme	Store-and-Forward
Address Table	2K entries
Buffer	1Mbit
Flow Control	Back pressure for half duplex, IEEE 802.3x pause frame for full duplex
Switch Fabric	1Gbps
Throughput (Packet Per Second)	0.74Mpps @ 64Bytes
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 Ethernet, 10BASE-T IEEE 802.3u Fast Ethernet, 100BASE-TX, 100BASE-FX IEEE 802.3x full-duplex flow control
Standards Conformance	
Temperature	Operating: -10~60 degrees C "T" models Operating: -40~75 degrees C Storage: -40~85 degrees C
Humidity	Operating: 5% to 90%, Storage: 5% to 90% (non-condensing)

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Model	ISW-621 ISW-621T	ISW-621S15 ISW-621TS15	ISW-621TF
Hardware Specifications			
Copper	Ports	4 x 10/100BASE-TX, auto-negotiation, auto-MDI/MDI-X	
	Cable	10BASE-T: 2-pair UTP Cat. 3, 4, 5 cable (max. 100 meters) 100BASE-TX: 2-pair UTP Cat. 5, 5e, 6 cable (max. 100 meters)	
Fiber Optic	Port	2 x 100BASE-FX	
	Cable	50/125µm fiber 62.5/125µm fiber	9/125µm fiber Multi-Mode: 50/125µm fiber 62.5/125µm fiber Single-Mode: 9/125µm fiber
	Mode	multi-mode	single-mode
	Distance	2km	ISW-621S15: 15km ISW-621TS15: 20km
Dimensions (W x D x H)	32 x 87 x 135 mm		
Weight	442g		
Power Requirements	12~48V DC, Redundant power with reverse polarity protection		
Power Consumption/Dissipation	11.6 watts/40BTU	16 watts/54BTU	
Installation	DIN-rail kit and wall-mount ear		

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User's Manual

Industrial Fast Ethernet Switch with 4 10/100TX + 1/2 100FX Ports

ISW-511/ISW-621/ISW-511T/ISW-621T Series

www.PLANET.com.tw

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Warning:
This device is compliant with Class A of CISPR 32.
In a residential environment this device may cause radio interference.
2350-AH0150-006



Switch Specifications	
Switch Processing Scheme	Store-and-Forward
Address Table	2K entries
Buffer	1Mbit
Flow Control	Back pressure for half duplex, IEEE 802.3x pause frame for full duplex
Switch Fabric	1.2Gbps
Throughput (Packet Per Second)	0.89Mpps@ 64Bytes
Standards Conformance	
Regulatory Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 Ethernet, 10BASE-T IEEE 802.3u Fast Ethernet, 100BASE-TX, 100BASE-FX IEEE 802.3x full-duplex flow control
Stability Testing	IEC60068-2-32 (free fall) IEC60068-2-27 (shock) IEC60068-2-6 (vibration)
Standards Conformance	
Temperature	Operating: -10~60 degrees C "T" models Operating: -40~75 degrees C Storage: -40~85 degrees C
Humidity	Operating: 5% to 90% Storage: 5% to 90% (non-condensing)

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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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