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-	21 cm
ISW-511T			mode	ZKIII
ISW-511S15			Single-	1.5km
ISW-511TS15			mode	IJKIII
ISW-621			Multi-	2km
ISW-621T			mode	
ISW-621S15		2 x	Single-	15km
ISW-621TS15		100BASE-FX	mode	
ISW-621TF			Multi/ Single Mode	Depending on SFP Module

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

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: Figure 2: Figure 3: ISW-511 Series ISW-621 Series Front View Front View

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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.

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

- 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.

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	er tic 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.	

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.





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



2.6 Grounding the Device

currents.

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



≟ Earth Ground



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-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)		
	Port	1 x 100BASE-FX		
Fiber	Cable	50/125µm fiber 62.5/125µm fiber	9/125µm fiber	
Optic	Mode	multi-mode	single-mode	
	Distance	2km	15km	
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		

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	
Hardwa	re Specific	ations			
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)			
Port		2 x 100BASE-FX			
Fiber Optic	Cable	50/125µm fiber 62.5/125µm fiber	9/125µm fiber	Multi-Mode: 50/125µm fiber 62.5/125µm fiber	
	Mode	multi-mode	single-mode	Single-Mode: 9/125µm fiber	
	Distance	2km	15km	Depending on SFP Module	
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			

PLANET Networking & Communication

www.PLANET.com.tw

PLANET Technology Corp. 10F., No. 96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan

F., No. 96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwar

 Warning:

 This device is compliant with Class A of CISPR 32.

 In a residential environment this device may cause radio interference.

 2350-AH0150-005



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)	



User's Manual

515151

B

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

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

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