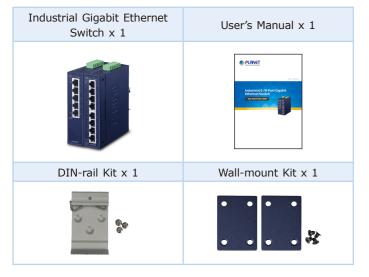# 1. Package Contents

Thank you for purchasing PLANET 5-/8-Port 10/100/1000T industrial Gigabit Ethernet Switch, IGS-501T/IGS-801T. In the following section, the term **"Industrial Gigabit Ethernet Switch"** means the IGT-501T/IGT-801T.

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

Industrial Gigabit 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.

2. Product Specifications

Model	IGS-501T	IGS-801T
Hardware Specifications		
10/100/1000BASE-T Ports	5	8
Dimensions (W x D x H)	32 x 87 x 135 mm	
Weight	430g	476g
Power Requirements	9~48V DC, redundant power with reverse polarity protection function, 24V AC power support	12~48V DC, redundant power with reverse polarity protection function, 24V AC power support
Power Consumption/ Dissipation	2.8 watts/9.5BTU	6.72 watts/23BTU
Installation	DIN-rail kit and wall-mount ear	
Switch Specifications		
Switch Processing Scheme	Store-and-Forward	
Address Table	2K	4K
Buffer	4M bits	1.5Mbits SRAM packet buffer
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex	

Switch Fabric	10Gbps	16Gbps
Throughput (packet per second)	7.4Mpps	11.9Mpps
Jumbo Frame	9K	
Network Cables	10/100/1000BASE-T: Cat. 3, 4, 5, 5e, 6 UTP cable (100 meters, max.) EIA/TIA-568 100-ohm STP (100 meters, max.)	
Standards Conformance		
Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy-Efficient Ethernet IEEE 802.1p Class of Service	
Temperature	Operating: -40~75 degrees C Storage: -40~75 degrees C	
Humidity	Operating: 5% to 90%, Storage: 5% to 90% (non-condensing)	
Regulatory Compliance	FCC Part 15 Class A, CE	

3. Hardware Introduction

3.1 Switch Front Panel

The front panel of the Industrial Gigabit Ethernet Switch consists of 5 or 8 auto-sensing 10/100/1000Mbps Ethernet RJ45 ports. The LED Indicators are also located on the RJ45 ports of the Gigabit Ethernet Switch.

Figures 3-1 and 3-2 show the front panels of the industrial Gigabit Ethernet Switches.
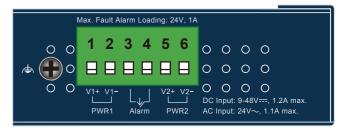

Figure 3-1: IGS-501T Front Panel

Figure 3-2: IGS-801T Front Panel

3.2 LED Indicators

IGS-501T:

LED	Color	Function
P1	Green	Lit to indicate power 1 has power.
P2	Green	Lit to indicate power 2 has power.
Alarm	Red	Lit to indicate either power 1 or power 2 has no power.
1000 LNK/ACT	Green	Lit to indicate the port is successfully connecting to the network at 1000Mbps. Off to indicate that the port is successfully connecting to the network at 10Mbps or 100Mbps. Blinking to indicate that the port is actively sending or receiving data.
10/100 LNK/ACT	Amber	Lit to indicate the port is successfully connecting to the network at 100Mbps or 10Mbps. Off to indicate that the port is successfully connecting to the network at 1000Mbps. Blinking to indicate that the port is actively sending or receiving data.

IGS-801T:

LED	Color	Function
P1	Green	Lit to indicate power 1 has power.
P2	Green	Lit to indicate power 2 has power.
FAULT	Red	Lit to indicate either power 1 or power 2 has no power.
1000 LNK/ACT	Green	Lit to indicate the port is successfully connecting to the network at 1000Mbps. Off to indicate that the port is successfully connecting to the network at 10Mbps or 100Mbps. Blinking to indicate that the port is actively sending or receiving data.
10/100 LNK/ACT	Amber	Lit to indicate the port is successfully connecting to the network at 100Mbps or 10Mbps. Off to indicate that the port is successfully connecting to the network at 1000Mbps. Blinking to indicate that the port is actively sending or receiving data.

3.3 Switch Upper Panel

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

Figures 3-3 and 3-4 show the upper panel of the Industrial Gigabit Ethernet Switch.
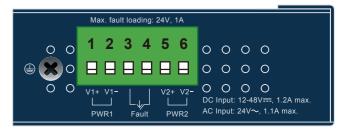

Figure 3-3: IGS-501T Upper Panel

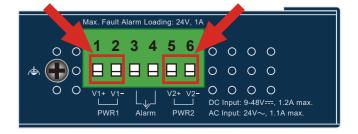**Figure 3-4:** IGS-801T Upper Panel

3.4 Wiring the Power Inputs

The 6-contact terminal block connector on the top panel of Industrial Gigabit Ethernet Switch is used for two DC redundant power inputs. Please follow the steps below to insert the power wire.
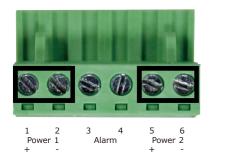
> ⚠ When performing any of the procedures like inserting the wires or tightening the wire-clamp screws, make sure the power is OFF to prevent from getting an electric shock.
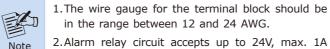
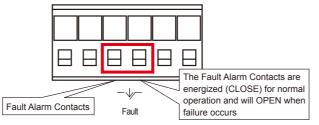1. Insert positive and negative DC power wires into contacts 1 and 2 for Power 1 or 5 and 6 for Power 2.

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

1	2	3	4	5	6
Power 1		Alarm		Power 2	
+	-			+	-

Note
1. The wire gauge for the terminal block should be in the range between 12 and 24 AWG.
2. The IGS-501T power input range is 9V ~ 48V DC and supports 24V AC.
3. The IGS-801T power input range is 12V ~ 48V DC and supports 24V AC.
4 Use one power input when using 24V AC.

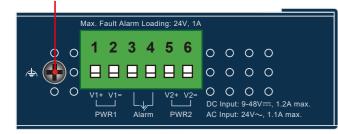## 3.5 Grounding the Device

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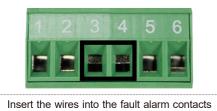
⏚ **Earth Ground**

3.6 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 Gigabit Ethernet Switch will detect the fault status of the power failure and then form an open circuit. The following illustration shows an application example for wiring the fault alarm contacts.

Insert the wires into 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.

Fault Alarm Contacts   Fault   The Fault Alarm Contacts are energized (CLOSE) for normal operation and will OPEN when failure occurs

4. Installation

4.1 DIN-rail Mounting Installation

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

4.2 Wall-mount Plate Mounting

4.3 Side Wall-mount Plate Mounting

Caution
You must use the screws supplied with the wall-mounting brackets. Damage caused to the parts by using incorrect screws would invalidate your warranty.

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www.PLANET.com.tw

Industrial 5-/8-Port Gigabit Ethernet Switch

▶IGS-501T/IGS-801T

UK CA CE [HL] ♻

5. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource at the PLANET Web site first to check if it could solve your issue. If you need more support information, please contact PLANET support team.

PLANET online FAQs:
https://www.planet.com.tw/en/support/faq?method=category&c1=3

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

EC Declaration of Conformity

For the following equipment:

*Type of Product   : 5/8-Port 10/100/1000T Industrial Gigabit Ethernet Switch

*Model Number   :   IGS-501T, IGS-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 (2014/30/EU).

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

EN 55032	(2015 + AC:2016)
EN 55024	(2010 + A1:2015)
EN 55035	(2017)

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	May 28, 2018	
Place	*Date*	*Legal Signature*

PLANET TECHNOLOGY CORPORATION