## 1. Package Contents

Thank you for purchasing PLANET industrial compact 5 -port Gigabi Ethernet Switch, IGS-500T/IGS-510TF. In the following section, the term "Industrial

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


If any of these are missing or damaged, please contact your deale 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-500T | IGS-510TF |
| :---: | :---: | :---: |
| Hardware Specifications |  |  |
| Copper Ports | 5 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports | 410/100/1000BASE-T RJ45 auto-MDI/MDI-X ports |
| SFP Slot | -- | 1 1000BASE-SX/LX/ BX SFP interface compatible with 100BASE-FX SFP |
| Connector | Removable 6-pin terminal block Pin $1 / 2$ for Power $1 ;$ Pin 3/4 for fault alarm; <br> Pin 5/6 for Power 2 | Removable 4-pin terminal block Pin $1 / 2$ for Power 1; Pin 3/4 for Power 2 |
| Alarm | One relay output for power failure. Alarm relay current carry ability: 1A@DC 24V | -- |
| Power <br> Requirements | 12~48V DC, redundant power with reverse polarity protection function, 24 V AC power support | 9~48V DC, redundant power with reverse polarity protection function, 24 V AC power support |


| Power <br> Consumption <br> (Ethernet Full <br> Loading) | Max. 3.6 <br> watts/12.28BTU | Max. 4.3 <br> watts/14.67BTU |
| :--- | :--- | :--- |
| Dimensions <br> (W $\times$ D $\times$ H) | $30 \times 70 \times 104 \mathrm{~mm}$ |  |
| Weight | 252 g |  |
| Enclosure | IP30 metal case | 270 g |
| Installation | DIN-rail kit and wall-mount kit |  |
| ESD Protection | 6 KV |  |
| EFT Protection | 6 KV |  |
| Switch Specifications |  |  |
| Switch |  |  |
| Architecture | Store-and-Forward |  |
| Switch Fabric | 10 Gbps |  |
| Throughput <br> (packet per <br> second) | 7.4 Mpps @64bytes |  |
| Address Table | 4 KK entries |  |
| Buffer Memory | 1M bits on-chip buffer memory |  |
| Jumbo Frame | 9Kbytes |  |
| Flow Control | Back pressure for half duplex <br> IEEE 802.3x pause frame for full duplex |  |

## 3. Hardware Introduction

### 3.1 Switch Front Panel

The front Panels of the Industrial Gigabit Ethernet Switches consist of Ethernet interfaces and LED indicators.

## - Front View



Figure 1:
IGS-500T Front View


Figure 2: IGS-510TF Front View

| Standards Conformance |  |
| :---: | :---: |
| Regulatory Compliance | FCC Part 15 Class A, CE |
| Stability Testing | IEC 60068-2-32 (free fall) <br> IEC 60068-2-27 (shock) <br> IEC 60068-2-6 (vibration) |
| Standards Compliance | IEEE 802.3 Ethernet <br> IEEE 802.3u Fast Ethernet <br> IEEE 802.3ab Gigabit Ethernet <br> IEEE 802.3az Gigabit SX/LX (IGS-510TF only) <br> IEEE 802.3x Full-Duplex Flow Control <br> IEEE 802.3az Energy Efficient Ethernet (EEE) <br> IEEE 802.1p Class of Service |
| Environment |  |
| Temperature | Operating: -40~75 degrees C Storage: -40~75 degrees C |
| Humidity | Operating: 5~90\% (non-condensing) Storage: 5~90\% (non-condensing) |

### 3.3 Switch Upper Panel



Figure 4: IGS-510TF Top View

### 3.4 Wiring the Power Inputs

The terminal block connector on the top panel of Industrial Gigabit thernet 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.

## [IGS-500T]

Insert positive and negative $D C$ power wires into contacts 1 and 2 for POWER 1, or contacts 5 and 6 for POWER 2 .

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

The upper panels of the Industrial Gigabit Ethernet Switches consist fone terminal block connetor within two power input.


Figure 3: IGS-500T Top View

## [IGS-510TF]


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



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

3.5 Wiring the Fault Alarm Contact (IGS-500T Only) The fault alarm contacts are in the middle of the terminal block connector as the picture shows below. Inserting the wires, the 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. the range between 12 and 24 AWG.
2. Alarm relay circuit accepts up to 24 V D,

### 3.6 Grounding the Device

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


```
O
EMD (Lightning) DAMAGE IS NOT CONVERED UNDER WMD (Lightn
```


## 4. Installation

This section guides you to installing the Industrial Gigabit Etherne Switch on the DIN rail and wall. Please read this chapter complete before continuing

[^0]4.1 DIN-rail Mounting Installation


4.3 Side Wall-mount Plate Mounting (IGS-510TF Only)


You must use the screws supplied with the wallmounting brackets. Damage caused to the parts by
using incorrect screws would invalidate your warranty.
$\qquad$ using incorrect screws would invalidate your warranty.

## -11-

## 5. Three-View Diagram

The three-view diagram of the Industrial Gigabit Ethernet Switch consists of multiple auto-sensing 10/100/1000BASE-T RJ45 ports and one removable terminal block. The LED indicators are also located on the front panel
■ IGS-500T


Figure 5: IGS-500T Three-View Diagram

Industrial Compact 5-Port Gigabit Ethernet Switch
www.PLANET.com.tw


## Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource on PLANET web site first to check if it could solve your issue. If you need more support information, please contact PLANET switch support tea
PLANET online FAQs:
http://www.planet.com.tw/en/support/faq
switch support team mail address.
support@planet.com.tw

[^1]
[^0]:    㞔
    This following pictures show how to install the device However, the
    IGS-510TF.

[^1]:    Copyright © PLANET Technology Corp. 2019.
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