## 1. Package Contents

Thank you for purchasing PLANET industrial 10 -port Gigab Ethernet Switch, IGS-1020TF. In the following section, the term
"Industrial Gigabit Ethernet Switch" means the IGS-1020TF. Open the box of the Industrial Gigabit Ethernet Switch and carefully unpack it. The box should contain the following items:

| Industrial Gigabit <br> Ethernet Switch $\times 1$ | User's Manual $\times 1$ | SFP Dust Cap <br> $\times 2$ |
| :---: | :---: | :---: |

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

### 2.2 LED Indicators

## $\square$ System

LED Color Function
P1 Green Lit: indicates power 1 has power.
P2 Green Lit: indicates power 2 has power.

| Fault | Red | Lit: indicates either power 1 or power 2 has no |
| :--- | :--- | :--- |

## ■ Per 10/100/1000T Port

| LED | Color | Function |
| :--- | :--- | :--- |
| 10/100 <br> LN/ | Orange | Lit: indicates the link through that port is <br> successfully established at 10Mbps or 100Mbps. |
|  |  | Blinking: indicates that the Switch is actively <br> sending or receiving data over that port. |
| set |  | Lit: indicates the link through that port is <br> 1000 <br> LNK/ |
| Auccessfully established at 1000Mbps. |  |  |
| ACT |  |  |

## - Per 100/1000X SFP SIot

LED Color Function
100 Lit: indicates the link through that port is

| LNK/ | Orange | successfully established at 100Mbps. |
| :--- | :--- | :--- |
| ACT | Blinking: indicates that the Switch is actively |  | Blinking: indicates that the Switch is active

sending or receiving data over that port. Lit: indicates the link through that port is
1000

| NK/ | Green | successfully established at 1000 Mbps . |
| :--- | :--- | :--- |
|  | Blinking |  |


| LNK/ | Green | Blinking: indicates that the Switch is actively |
| :--- | :--- | :--- | sending or receiving data over that port.

### 2.3 Switch Upper Panel

The upper panel of the Industrial Gigabit Ethernet Switch consists of one terminal block connector within two power inputs.
Figure 2-2 shows the upper panel of the Industrial Gigabit Ethernet Switch.


Figure 2-2: Industrial Gigabit Ethernet Switch Upper Panel

### 2.4 Wiring the Power Inputs

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

$$
\begin{aligned}
& \text { ! } \begin{array}{l}
\text { When performing any of the procedures like inserting } \\
\text { the wires or tithtening the wire-clamp screws, make } \\
\text { sure the power is OFF to prevent from getting an } \\
\text { electric shock. }
\end{array} \\
& \text { 1. Insert positive and negative DC power wires into contacts } 1 \text { and }
\end{aligned}
$$ 2 for POWER 1 , or 5 and 6 for POWER

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


$$
\begin{array}{llll}
1 & 2 & 3 & 4 \\
\text { Power 1 } & \text { Fault } & 5 & 6 \\
\text { Power 2 }
\end{array}
$$

```
1. The wire gauge for the terminal block should be in the range between 12 and 24 AWG
虎 2. The DC power input range is \(12 \mathrm{~V} \sim 48 \mathrm{~V} D\) and
supports 24 V AC
3. Use one power input when using 24 VAC .
```


### 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 Gigabit Ethernet Switch will detect the fault status of Industrial Gigabit 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.

## 3. Installation

This section describes the functionalities of the Industrial Gigabit Ethernet Switch's components and guides how to install it on the IN-rail and wall. Basic knowledge of networking is assumed. lease read this chapter completely before continuing.

This following pictures show the user how to instal the device, and the device is not IGS-1020TF
3.1 DIN-rail Mounting Installation

3.2 Wall-mount Plate Mounting


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

### 3.3 Installing the SFP Transceiver

ee sections describe how to insert an SFP transceiver into an SFP The
slot.

The SFP transceivers are hot-pluggable and hot-swappable. You an plug in and out the transceiver to/from any SFP port without
having to power down the Industrial Gigabit Ethernet Switch as aving to power down the Industrial Gigabit Ethernet Switch as


Figure 3-1: Plug-in the SFP Transceiver


It is recommended to use PLANET SFPs on the Industrial Gigabit Ethernet Switch. If you insert an SFP transceiver that is not supported, the Industrial
Gigabit Ethernet Switch will not recognize it.

PLANET Industrial Gigabit Ethernet Switch supports 100/1000 dua mode with both single mode and multi-mode SFP transceivers.
Before we connect Industrial Gigabit Ethernet Switch to the othe network device, please do the following:

1. Make sure both sides of the SFP transceivers are with the same media type, for example,
2. Check whether the fiber-optic cable type matches with the SFP transceiver requirement.

- To connect to 1000BASE-SX SFP transceiver, please use the multi-mode fiber cable with one side being the male duple C connector type.
> To connect to 1000bASE-LX or 1000BASE-BX SFP trans ceiver, please use the single-mode fiber cable with one side being the male duplex LC connector type.


## Connect the Fiber Cable

1. Attach the duplex LC connector on the fiber cable to the SF transceiver.
2. Connect the other end of the fiber cabl e to a device with the
SFP transceiver installed. SFP transceiver installed.
3. Check the LNK/ACT LED of the SFP slot on the front of the Industrial Gigabait Ethernet Switch. Ensure that the SFP trans
ceiver is operating correctly.

| Installation | DIN-rail kit and wall-mount ear |
| :--- | :--- |
| Dimensions <br> (W $\times$ D $\times$ H) | $56 \times 87 \times 135 \mathrm{~mm}$ |
| Weight | 540 g |
| Power Requirements | DC $12 \sim 48 \mathrm{~V}$ or AC 24V <br> Redundant power with polarity reverses <br> protection function |
| Power <br> Consumption/ <br> Dissipation | 8.7 watts/29.69BTU |

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## 5. Physical Dimensions

S-1020TF Industrial Gigabit Ethernet Switch dimensions (W x D x H): $135 \times 87.8 \times 50 \mathrm{~mm}$


## 6. Customer Support

Thank you for purchasing PLANET products. You can browse our solve your issue. If you need wore support information, please ontact PLANET switch support team
LANET online FAQs:
http://www.planet.com.tw/en/support/faq.php
Switch support team mail address:
support@planet.com.tw

