## 1. Package Contents

Thank you for purchasing PLANET compact industrial 100/1000x to 10/100/1000T 802.3at PoE+ Media Converter, IGTP-815AT. In the following sections, the
means the IGTP-815AT.
Open the box of the Industrial PoE+ Media Converter and carefully Open the box of the Industrial PoE+ Media Converter
unpack it. The box should contain the following items:

any of these are missing or damaged, please contact your dealer mmediately; if possible, retain the carton including the origina packing material, and use them again to repack the product in case there is a need to return it to us for repair

| Power Consumption | System ON without loading <br> DC 48V: 0.96W/3.27BTU <br> DC 56V: 1.12W/3.82BTU <br> Full loading with PoE <br> DC 48V: 35W/119BTU (PoE:30W) <br> DC 56V: 42W/143BTU (PoE:36W) |
| :---: | :---: |
| DIP Switch | Off: LFP (Link Fault Passthrough) disable On: LFP (Link Fault Passthrough) enable FEF (Far End Fault) works with LFP to prevent data loss <br> The DIP switch is turned off by default. |
| Enclosure | IP30 metal case |
| Installation | DIN-rail kit and wall-mount ear |
| ESD Protection | 6 KV DC |
| Cables | 10/100/1000BASE-T: <br> 2-pair UTP Cat. 3, 4, 5, 5e, 6 <br> (maximum 100 meters) <br> EIA/TIA-568 100-ohm STP <br> (maximum 100 meters) <br> 100BASE-FX/1000BASE-SX/LX: <br> Multi-mode: $50 / 125 \mu \mathrm{~m}$ or $62.5 / 125 \mu \mathrm{~m}$ optical fiber <br> Single-mode: $9 / 125 \mu \mathrm{~m}$ optical fiber |
| Power Over Ethernet |  |
| PoE Standard | IEEE 802.3at Power over Ethernet Plus |
| PoE Power Output | 48~56V DC: 36 watts max. |

## 3. Hardware Introduction

### 3.1 Three-View Diagram

The three-view diagram of the Industrial PoE+ Media Converter consists of Ethernet interfaces and one removable 2 -pin termina lock. The LED indicators are also located on the front panel.


Figure 1: IGTP-815AT Three-View Diagram
-5-

## > Front View

| PoE Power Supply Type | End-span |
| :---: | :---: |
| Power Pin Assignment | 1/2(+), 3/6(-) |
| PoE Power Budget | 36 watts |
| Standards Conformance |  |
| Regulatory Compliance | FCC Part 15 Class A, CE |
| Protocols and Standards Compliance | IEEE 802.3 Ethernet <br> IEEE 802.3u Fast Ethernet <br> IEEE 802.3ab Gigabit Ethernet <br> IEEE 802.3z Gigabit Ethernet over Fiber Optic <br> IEEE 802.3x Flow Control IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus |
| Stability Testing | IEC60068-2-32 (free fall) IEC60068-2-27 (shock) IEC60068-2-6 (vibration) |
| Environment |  |
| Temperature | Operating: -40~75 degrees C Storage: -40~85 degrees C |
| Humidity | Operating: 5~90\% (non-condensing) Storage: 5~90\% (non-condensing) |

### 3.2 LED Definition:

> System
LED Color

| Color |  |
| :---: | :---: |
| Green | Li |
|  |  |

Lights to india Function

| PWR | Green | $\begin{array}{l}\text { Lights to indicate the } \\ \text { Converter has power. }\end{array}$ |
| :--- | :--- | :--- |

## > Gigabit TP Interface

| > Gigabit TP Interface |
| :--- |
| LED Color Function <br> TP  Lit: Indicates that the Copper Port is <br> succesfully connecting to the network at <br> $10 / 100 / 1000$ Mbps. <br> TL <br> LNK/ Green BCinks: Indicates the Copper Port is receiving <br> ACT <br> or sending data. <br> PoE-in- Amber  <br> Use   |
| Lit: Indicates that the port is providing PoE <br> power to remote powered device. | | Offf: Indicates that the port is not providing |
| :--- |
| PoE power to remote powered device. |

## - Gigabit Fiber Interface

| LED | Color | Function |
| :--- | :---: | :--- |
| Fiber |  | Lit: Indicates that the fiber optic port is <br> successfully connecting to the network at <br> 100Mbps or 1000Mbps. |
| LNK/ | Green | BClinks: Indicates the fiber optic port is <br> ACT |
| receiving or sending data. |  |  |

### 3.3 Wiring the Power Inputs

The 2 -contact terminal block connector on the top panel of ndustrial PoE+ Media Converter is used for $48 \sim 56 \mathrm{~V}$ DC pow 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.

2 for POWER.

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

2. The DC power input range is $48 \mathrm{~V} \sim 56 \mathrm{~V} \mathrm{DC}$.

## 4. Hardware Installation

This section describes the functionalities of the Industrial PoE+ Media Converter's components and guides you to installing it on
he DIN rail and wall. Please read this chapter completely before continuing.

```
[] This following pictures guide you to installing the
Note
device, and the device is not IGTP-815A
```


### 4.1 DIN-rail Mounting Installation


4.4 Grounding the Device

User MUST complete grounding wired with the device; otherwise,
a sudden lightning could cause fatal damage to the device. EMD (Lightning) DAMAGE IS NOT CONVERED UNDER WARRANTY.


### 4.2 Wall-mount Plate Mounting


4.3 Side Wall-mount Plate Mounting


You must use the screws supplied with the wall mounting brackets. Da maye caused to the parts by


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## 50-AH1310-001

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## 6. Link Fault Pass through

The LFP function includes Link Loss Carry Forward (LLCF), Link
Loss Return (LLR) and the DIP switch design. LLCF and LLR can immediately alert administrators about the issue of the link media and provide efficient solution to monitor the network. The DIP switch provides the disabling or enabling of the LFP function.

 LFP function is turned off by default. This feature
can also be turned on via the DIP switch. If you arenot familiar with the network installation and for
diagnostic purpose (i.e. check which end is broken),
you can turn it on. Otherwise, please keep it in the
$\qquad$ you can turn it on. Otherwise, please keep it in the
default position default position

## Customer Support

 Thank you for purchasing PLANET products. You can browse ouronline 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 team.
pLANET online FAQs:
http://www.planet.com.tw/en/support/faq.php
Switch support team mail address
support switch@planet.com.tw

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