## MEDIA <br> Ganverter <br> industrial <br> Quick Installation Guide

## : Introduction

The IGPMC-111GP-BT-24V is a cost-effective solution for the conversion interface between 10/100/1000Base-T(X) and 100/1000Base-X SFP socket; it allows you to extend
communication distance by optical fiber. IGPMC-111GP-BT-24V supports MDIMDIX auto communication distance by optical fiber. IGPMC-111GP-BT-24V supports MDI/MDXX auto
detection, so you don't need to use crossover wires IGPMC-111GP-BT-24V also sup detection, so you don't need to use crossover wires. IGPMC-111GP-BT-24V also support
Power over Ethernet, a system to transmit electrical power up to 90 watts, along with Power over Ethernet, a system to transmit electrical power up to dornat n, alorg. With IGPMC-111GPP-BT-24V has $1 \times 1 \times 1 / 100 / 1000$ Base-T(X) P.S.E. (Power Sourcing
Equipment) port to provide power in a PoE setup.
The IGPMC-111GP-BT-24V also supports the LFP (Link Fault Pass-through) feature,
When one side of the link fails, the others side continues transmitting packets, and wait When one side of the link fails, the other side continues transmitting packets, and waiting
for a response that never arrives from the disconnected side. Use the DIP-Switch to for a response that never arrives from the disconnected side. Use the DIP-Switch to
enable the LFP function, then IGPMC-111GP-BT-24V will force the link to shut down as soon as noticed that the other link has failed, giving the application software a chance to
react to the situation. react to the situation.
The IGPMC-111GP-BT-24V with wide operating temperature range from $-40 \sim 75^{\circ} \mathrm{C}$ and
accepts a wide voltage range from dual $12 \sim 57$ VDC accepts a wide voltage range from dual $12 \sim 57$ VDC power inputs, so it is suitable for
harsh operating environments. Therefore, the IGPMC-111GP-BT-24V is reliable media harsh operating environments. Therefore, the IGPMC-111GP-BT-24V is reliable media The product is open type, intended to be installed in and industrial control panel or an enclosure.

## :- Package Contents

The series is shipped with the following items. If any of these items is missing or damaged, please contact your customer service representative for
assistance.

| Contents | Pictures | Number |
| :--- | :---: | :---: |
| IGPMC-111GP-BT-24V |  | $x_{1}$ |
| DN--rail Kit |  | $x_{1}$ |
| Wall-mount Kit |  | $x_{2}$ |
| QIG |  | $\mathrm{x}_{1}$ |
| 4-pin terminal block |  | $\mathrm{x}_{1}$ |

## :- Preparation

 Before installation, make sure you have all of the package contentsavailable and a PC with Microsoft Internet Explorer 6.0 or later, for using web-based system management tools.

Safety \& Warnings
Elevated Operating Ambient: If installed in a closed cabinet, the operating ambient temperature of the rack environment may be greater than room ambien
Therefore, consideration should be given to installing the equipment in an Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified y the manufactur
$\triangle$
Reduced Air Flow: Installation of the equipment should be such that the
amount of air flow required for compromised.

## HCPMC-1.1.1.CP-BT-24V

1. Mechanical Loading: Mounting of the equipment in the din-rail should be such that a hazardous condition is not achieved due to uneven mechanical loading.
Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings
should be used when addressing this concern.

* Indoor use and pollution degree II, it must be wiped with a dry cloth for clean up the

Utilisation en intérieur et degré de pollution II, il faut I'essuyer avec un chiffon sec pour Do
Do not block air ventilation holes.
Ne bouchez pas les orifices de ventilation.
provided by the equipment may be impaired." Si l'appareil est utilise d'une maniere non spe.
*apporte peut se voir diminuee."
Shall be mounted in the Industrial Control Panel and ambient tent 75 degree C

* doit être monté dans le panneau
doit pas dépasser 75 degrés C

Dimension Unit $=m \mathrm{~mm}$ (Tolerance $\pm 0.5 \mathrm{~mm}$ )


$$
\begin{aligned}
& \text { 12. IIP-switch } 1 \\
& \text { 12. DIP-switch } 11
\end{aligned}
$$



## Industrial Gigabit PoE Media

 Converter

## :- Installation

## DIN-rail Installation

Step 1: Slant the switch and screw the Din-rail kit onto the back of the switch, right in the middle of the back panel.
Step 2: Slide the switch onto a DIN-rail from the Din-rail kit and make sure the switch clicks into


Wall-mounting
Step 1: Screw the two pieces of wall-mount kits onto both sides of the switch. A total of eight strews are required, as shown befow.
step 2: Use the switch, with wall m
mount plates attached, as a guide to mark the correct Step 3: Insert four screw heads through the large parts of the keyhole-shaped apertures, and
Iocer then slide the switch downwards. Tighten the four screws for added stability.


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## GPMC-111.CP-BT-24V

## Industrial Gigabit PoE Media

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## :Configurations

## Network Connection

The device has a standard Ethernet port. According to the link type, the device uses
CAT $3,4,5,5$ UTP cables to connect to any other network devices CAT $3,4,5,5 \mathrm{e}$ UTP cables to connect to any other network devices (Pcs, servers, switches, routers, or hubs). Please refer to the following table for cable
specifications.
Cabe Types

| Cable | Type | Max. Length |
| :---: | :---: | :---: |
| 108ase-T | Cat. 3, 4, 5100-ohm | UTP 100 m (328 fi) |
| $1008 a s e-T(X)$ | Cat. 5100 -ohm UTP | UTP 100 m (328 fit) |
| 10008 ASE-T | Cat. $5 /$ Cat. 5e 100. | UTP 1 |

For pin assignments for different types of cables, please refer to the following tables.

| 10/1008sae-T(X). P. . . R. 4 . 5 Definition |  |  |  |
| :---: | :---: | :---: | :---: |
| Pin No. | Assignment | Pin No. | Dessipition |
| *1 | TO+ with PoE Power inout + | *1 | Bl_DA wit PoEPawer inut |
| *2 | T--wit PoE Power input | *2 | Bl_DA will PoE Powerinut+ |
| *3 | Rot with PoE Power input | *3 | BlıD8 wit PoE Power input. |
| *4 | Notused | *4 | 8ıloct |
| *5 | Notused | *5 | Bloc. |
| *6 | Ro- wit PoE Power inout- | *6 | B1_DB wit PoE Power inut. |
| * 7 | Notused | \#7 | ${ }_{\text {Bl_LO }}$ |
| *8 | Notused | *8 | B1.00 |

DIP Switch Setting


Wiring
The switch supports dual redundant power supplies which are
located on the 4 -pin terminal block.
STEP 1: Insert the negative/positive wires into the $\mathrm{V}-\mathrm{V}++$
STEP 2: To keep the DC wires from pulling loose, use a small
flat-blade screwdriver to tighten the wire-clamp screws on the flat-blade screwdriver to tighten the wire-clamp screws on the
front of the terminal block connector.

After installing the device and connecting cables, the green power LED should turn on After instaling the device and connecting cables, the
Please refer to the following tablet for LED indication.
LED indication table


- Specifications



1) Warning [AVERTISSEment]

Take into consideration the following guidelines before wiring the device Tenez compte des directrices suivantes avant de câbler I'appareil.

1. Terminal block is mating with Plug and suitable for $12-24 \mathrm{AWG}$. 1. Terminal block is matin
torque value 4.5 lb -in.

Torque value $4.5 \mathrm{lb}-\mathrm{in}$.
[Le bornier est compatible avec les connecteurs et convient pour 12-24AWG. Valeur de couple $4,5 \mathrm{lb}$-in.]
2. The temperature rating of the input connection cable should higher $0^{\circ}$ La température de service nominale du câble d'entrée doit être supérieure à $105^{\circ} \mathrm{C}$ ] Utilisez uniquement des conducteurs en cuivre.]
Warning. Hot Surface
Warning. Hot Surface
AVERTISSEMENT : SURFACE(S) CHAUDE(S)

Contact for maintenance and repair service:

## ORing


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