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Make network communication more reliable

IMC100 Series Industrial Unmanaged Media Converter Quick Installation Guide

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【Package Checklist】

Please check whether the package and accessories are intact while using the media converter for the first time.

1. Media Converter (with wiring terminal block)
2. DIN-Rail mounting attachment
3. Certification
4. Warranty card

If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

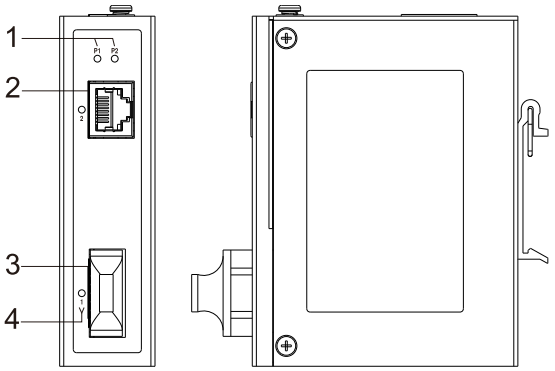
This series products are industrial media converters. For convenience, the products of this series adopt the following number on the left in this guide, please confirm the number of your product:

Model I. IMC100-1T1F-2P48 (1 100M copper port + 1 100M fiber port + 2 12/24/48VDC power supplies)

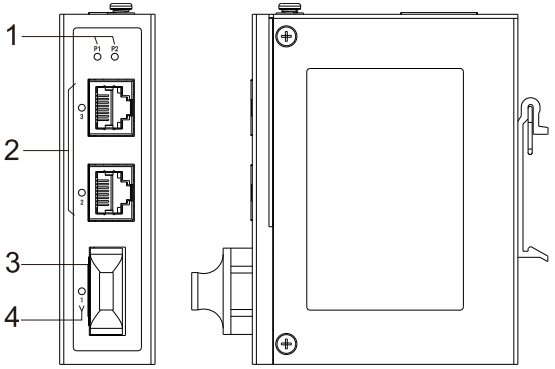
Model II. IMC100-2T1F-2P48 (2 100M copper ports + 1 100M fiber port + 2 12/24/48VDC power supplies)

【Panel Design】

➢ **Front view and right view**

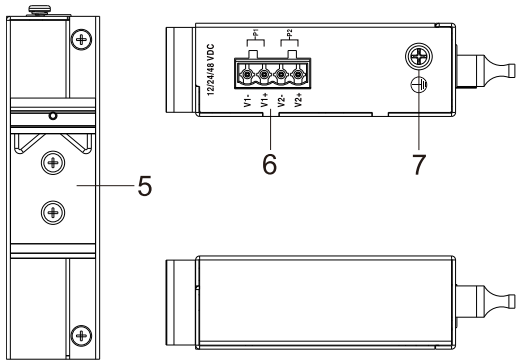


Model I



Model II

➢ **Rear view, top view, and bottom view**



Model I, II

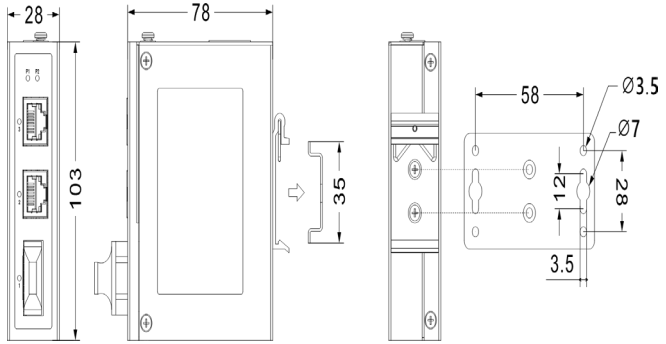
1. Power running indicator (P1/P2)
2. 100M copper port (2-3)
3. 100M fiber port (1)
4. Ethernet port indicator (1-3)
5. DIN-Rail mounting kit
6. Power input terminals (V1-, V1+, V2-, V2+)
7. Grounding screw (M4)

【Mounting Dimension】

Unit: mm

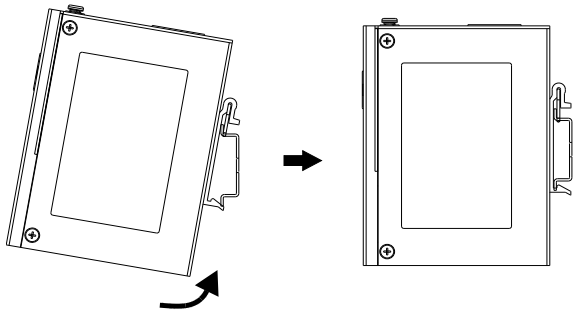
Notes:

The external dimensions of this series of products are the same.



【DIN-Rail Mounting】

The product adopts 35mm standard DIN-Rail mounting which is suitable for most industrial scenes, mounting steps are as follows:



Step 1 Check if the DIN-Rail mounting kit is installed firmly.

Step 2 Insert the bottom of DIN-Rail mounting kit (one side with spring support) into DIN-Rail, and then insert the top into DIN-Rail.

Tips:
Insert a little to the bottom, lift upward and then insert to the top.

Step 3 Check and confirm the product is firmly installed on DIN-Rail, then mounting ends.

【Disassembling DIN-Rail】

Step 1 Power off the device.

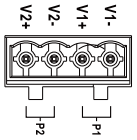
Step 2 After lifting the device upward slightly, first shift out the top of DIN-Rail mounting kit, and then shift out the bottom of DIN-Rail, disassembling ends.

Notes:

- Don't place or install the device in area near water or moisture, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before powering on the device, check the power specifications supported by the device to prevent device damage due to overvoltage.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

【Power Supply Connection】

This series of model I and II device features a redundant



power input function, providing two power inputs, P1 and P2. It can either input only one or be connected to two independent DC power supply systems. By introducing dual power supplies into the equipment simultaneously, the equipment can operate normally without interruption when any one of the power supply systems fails. Power supply range: 12/24/48VDC. The pin definitions are shown in the figure.

Notice:

- Power ON operation: First insert the power supply terminal block into the device power supply interface, and then plug the power supply plug contact and power on.
- Power OFF operation: First, remove the power plug, then remove the wiring section of terminal block. Please pay attention to the above operation sequence.

【Checking LED Indicator】

This series of model I and II device provide LED indicators to monitor its operating status, which has simplified the overall troubleshooting process. The function of each LED is described in the table below:

LED	Indicate	Description
P1/P2	ON	Power is connected and running normally
	OFF	Power supply is disconnected or running abnormally
Link/ACT (1-3)	ON	Ethernet port has established a valid network connection
	Blinking	Ethernet port is in an active network status
	OFF	Ethernet port has not established a valid network connection

【Specification】

Panel	
100M fiber port	100Base-FX, optional SC/ST/FC
100M copper port	10/100Base-T(X), RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotuning
Indicator	Power supply indicator, interface indicator
Power Supply	
Input power supply	12/24/48VDC, dual power supply redundancy, anti-reverse connection
Access terminal block	4-pin 5.08mm pitch terminal blocks
Switch Property	
Backplane bandwidth	1Gbps
Cache	1Mbit
MAC address	2K
Power Consumption	
No load at normal temperature of 25℃	1.26W@24VDC
Full load at normal temperature of 25℃	1.60W@24VDC
No-load at high temperature of 75℃	1.37W@24VDC
Full load at high temperature of 75℃	1.66W@24VDC
Working Environment	
Working temperature	-40~75℃
Storage temperature	-40~85℃
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)

【Disposal of Waste Electrical and Electronic Equipment (WEEE 2012/19/EU)】

(Applicable in the EU-member states)



The crossed-out wheeled bin symbol on the equipment or its packaging indicates that the product, at the end of its service life, shall not be mixed with unsorted municipal waste but should be collected separately, in accordance with local laws and regulations.

A proper separate collection of end-of-life equipment for the subsequent recycling, treatment, and environmentally compatible disposal, will help prevent potential damage to the environment and human health, facilitating the reuse, recycling and/or recovery of its component materials.

Private users should contact their vendor or municipal waste management service and ask for disposal information.

Professional users should contact their suppliers and check the terms of their selling agreement.

This product must not be disposed of with other commercial waste.

Users' cooperation in the correct disposal of this product will contribute to saving valuable resources and protecting the environment.