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Make network communication more reliable

IMC102B Series
Industrial Media Converter
Quick Installation Guide

Industrial Ethernet Switch
Device Networking Product
Embedded Module
Industrial Wireless Product
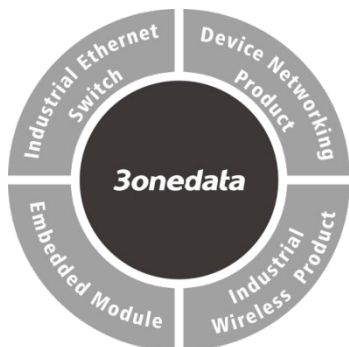
3onedata

3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Xili, Nanshan District, Shenzhen

Website: www.3onedata.com

Tel: +86 0755-26702688

Fax: +86 0755-26703485

【Package Checklist】

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

1 Industrial Media Converter   2 Quick installation guide
3 DIN-Rail mounting attachment   4 AC power line (only for AC device)
5 Certification   6 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 are industrial media converters. For convenience, the products of this series adopt the following number on the left in this guide, please affirm the number of your product.

Model I   IMC102B-F-P (12~48VDC)(2 100M copper ports + 1 100M fiber port, 1 12~48VDC power supply)
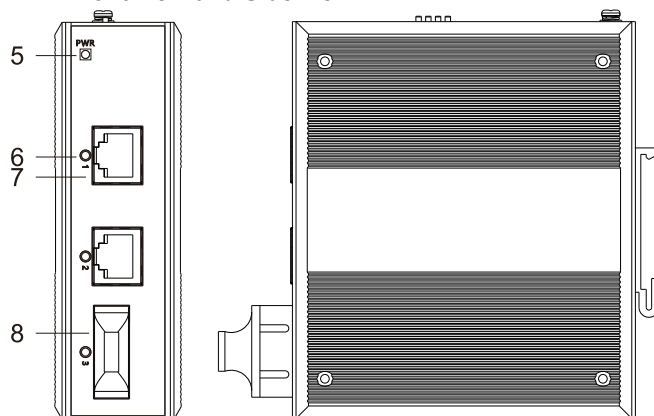
Model II   IMC102B-F-P (100~240VAC) (2 100M copper ports +1 100M fiber port, 1 100~240VAC/DC power supply)

【Panel Design】

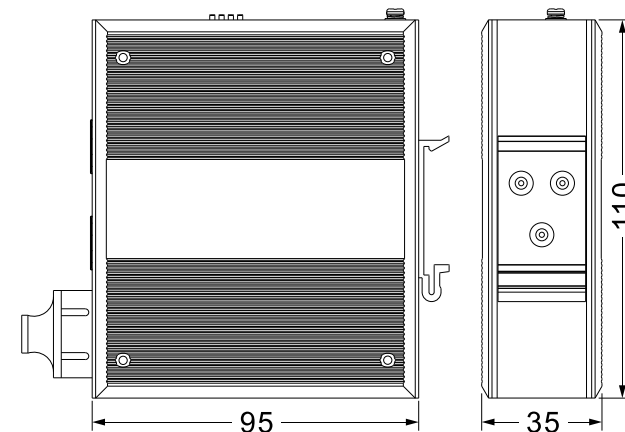➢ **Top view, bottom view and rear view**

1   2   3   4
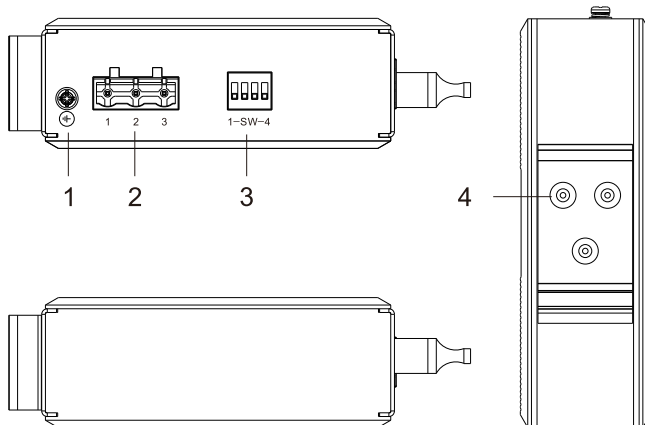
➢ **Front view and Side view**

5
6
7
8

1. Grounding screw
2. Terminal block for power input
3. DIP switch
4. DIN-Rail mounting kit
5. Power input status indicator
6. Ethernet port Link indicator
7. 10/100Base-T(X) 100M copper port
8. 100Base-FX 100M fiber port

【Mounting Dimension】

Unit: mm

110

95   35

⚠ **Note before mounting:**

● Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
● Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
● The device surface temperature is high after running; please don't directly contact to avoid scalding.

【DIN-Rail Mounting】

The product adopts 35mm standard DIN-Rail mounting which is suitable for most industrial scenes, mounting steps as follows:
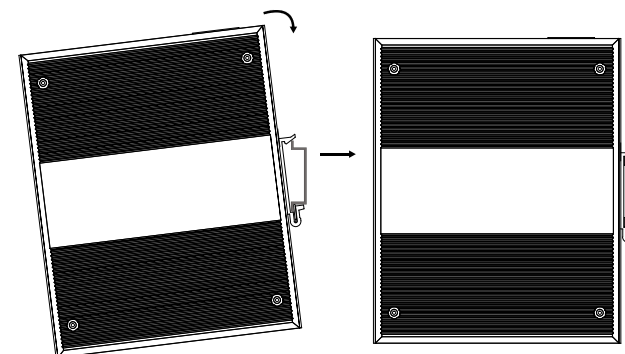
Step 1   Check if the DIN-Rail mounting kit is installed firmly.

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   Device power off.

Step 2   After lift 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.

⚠ Note before powering on:

- 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, and then remove the wiring section of terminal block. Please pay attention to the above operation sequence.
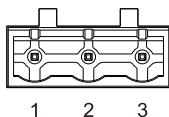
【Power Supply Connection】

➢ **DC power supply**
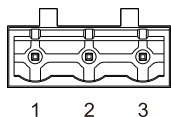
Model I provides 3-pin 7.62mm pitch terminal block and supports 1 DC power input. This power supply supports anti-reverse connection Power supply range: 12～48VDC.

The pin definitions of power supply are shown as follows:

Pin No.	1	2	3
PIN definition	V+	FG	V-

➢ **AC power supply**

Model II provides 3-pin 7.62mm pitch terminal block and supports 1 AC power input. Power supply range: 100~240VAC/DC. The pin definitions of power supply are shown as follows:

Pin No.	1	2	3
PIN definition	N/-	GND	L/+

【DIP Switch Settings】

Provide 4-bits DIP switch for function setting, where "ON" is enable valid terminal. DIP switches definition as follows:

DIP	Definition	Operation
1	Flow control	Set the DIP to ON
2	Specified 10M	Set the DIP to ON
3	Reserved	—
4	Reserved	—

【Checking LED Indicator】

The device provides LED indicators to monitor the device working status with a comprehensive simplified troubleshooting; the function of each LED is described in the table as below:

LED	Indicate	Description
PWR	ON	PWR is connected normally
	OFF	PWR is disconnected and running abnormally
Link/Act (1-3)	ON	Ethernet port is connected
	Blinking	The Ethernet interface is in a network activity state.
	OFF	Ethernet port is is connected abnormally or disconnected

【Specification】

Panel	
100M Copper Port	10/100Base-T(X), RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotunning
100M fiber port	100Base-FX, optional SC/ST/FC

Indicator	Power supply indicator, interface indicator
Switch Property	
Backplane bandwidth	1.6G
Packet buffer size	1Mbit
MAC Address Table	2K
Power supply	
Model I	12~48VDC, anti-reverse connection
Model II	100~240VAC/DC
Access terminal block	3-pin 7.62mm pitch terminal blocks
Power consumption	
Model I	No-load: 1.6W@24VDC Full-load: 2.0W@24VDC
Model II	No-load: 1.6W@220VAC Full-load: 2.0W@220VAC
Working environment	
Working temperature	-40℃～75℃
Storage temperature	-40℃～85℃
Working humidity	5%～95% (no condensation)
Protection grade	IP40 (metal shell)