3onedata
Reliable Connections



IMC100 Series

DIN-Rail Mounting

Unmanaged Industrial Media Converter

- Support 1 100M fiber port and 1/2 100M copper port
- Support 2 12/24/48VDC redundant power inputs, support anti-reverse connection
- Support -40~75℃ wide operating temperature range

CONNECTING FOR A BETTER FUTURE

3onedata Co.,Ltd.

Introduction

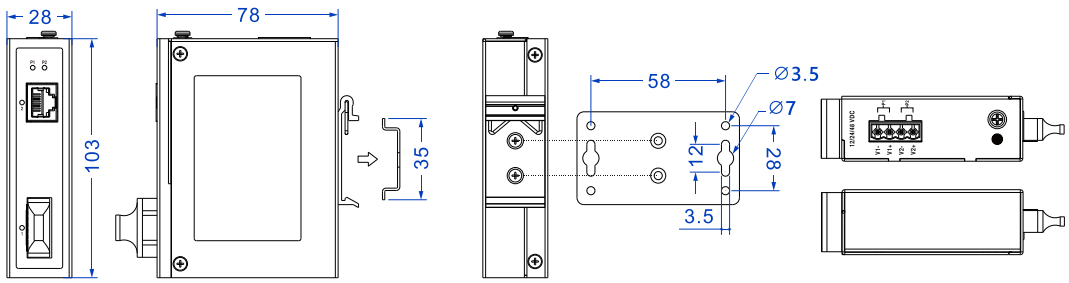
IMC100 series are unmanaged industrial media converters. This product offers two options for selection, supporting both 100M fiber ports and 100M copper ports. They adopt DIN-Rail mounting to meet the requirements of different application scenes.

Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in smart grid, rail transit, smart city, safety city, new energy, intelligent manufacturing, and other industrial fields.

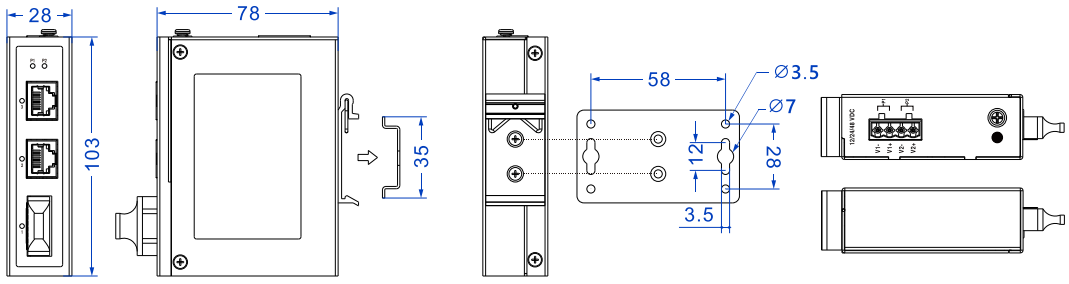
Dimension

Unit: mm

- IMC100-1T1F-2P48



- IMC100-2T1F-2P48



Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100BaseFX

Interface	100M copper port: 10/100Base-T(X), RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/ MDI-X Autotuning 100M fiber port: 100Base-FX, optional SC/ST/FC
Indicator	Interface indicator, power indicator
Switch Property	MAC address: 2K Buffer: 1Mbit Backplane bandwidth: 1Gbps Transmission mode: store and forward Switch time delay: <10μs
Power Supply	12/24/48VDC, 4-pin 5.08mm pitch terminal blocks Dual power supply redundancy input, anti-reverse connection
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	Operating temperature: -40~75℃ Storage temperature: -40~85℃ Relative humidity: 5%~95% (no condensation)
Mechanical Structure	Housing: IP40 protection, metal Installation: DIN-Rail mounting Dimension (W x H x D): 28mm×103mm×78mm Weight: 259g
Industrial Standard	IEC61000-4-2 (ESD, electrostatic discharge), Level 4 ● Air discharge: ±15kV ● Contact discharge: ±8kV IEC61000-4-4 (EFT, electrical fast transient), Level 4 ● Power supply: ±4kV ● Signal: ±2kV IEC61000-4-5 (Surge), Level 4 ● Power supply: differential mode±2kV, common mode±4kV ● Signal: differential mode±2kV, common mode±4kV Shock: IEC 60068-2-27 Free fall: IEC 60068-2-31 Vibration: IEC 60068-2-6

Authentication	CE, FCC, RoHS
Warranty	5 years

Ordering Information

Model	100M Copper Port	100M Fiber Port	Power Supply
IMC100-1T1F-2P48	1	1	12/24/48VDC dual power supply
IMC100-2T1F-2P48	2	1	

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road, Nanshan District, Shenzhen, 518108, China
TEL.: +86-755-26702668 ext 835 FAX: +86-755-26703485
E-mail: ics@3onedata.com
Website: www.3onedata.com

◂ Please scan our QR code for more details

*Product pictures and technical data in this datasheet are only for reference. Updates are subject to change without prior notice. The final interpretation right is reserved by 3onedata.