Narionix

IMC100 Series

DIN-Rail Mounting

Unmanaged Industrial Media Converter

- Support 1 100M/Gigabit fiber port, 1/2 100M/Gigabit copper ports or 1 Gigabit SFP

- Support optional AC/DC, single/dual power supply, input voltage: 12~48VDC/ DC or 100~240VAC/DC

- Support -40~75℃ wide operating temperature range

CE FC RoHS IP40
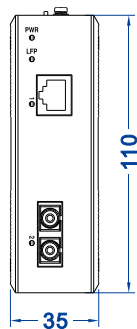
ROBUST INDUSTRIAL CONNECTION

Introduction

IMC100 series are unmanaged industrial media converters. This series have 14 products and support a variety of optional interfaces including 100M fiber ports, 100M copper ports, Gigabit fiber ports, Gigabit copper ports and Gigabit SFP. They adopt DIN-Rail mounting to meet the requirements of different application scenes.
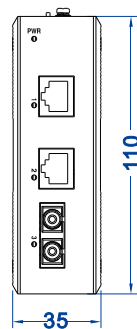
Product supports optional AC/DC power supply. The DIP switch could implement functions like jumbo frame, LFP, one-key VLAN or flow control. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in smart city, rail transit, smart city, safety city, new energy, intelligent manufacturing and other industrial fields.
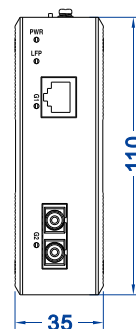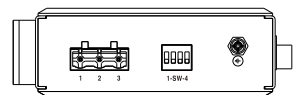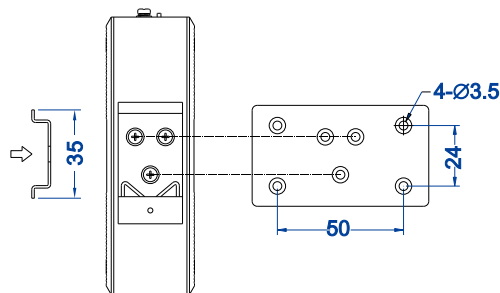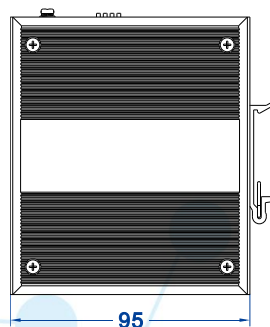
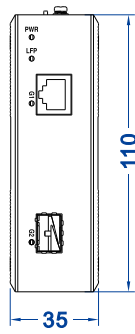# Dimension

Unit: mm

IMC100-1T1F-P48、
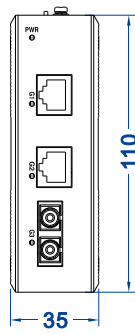IMC100-1T1F-P220

IMC100-2T1F-P48、
IMC100-2T1F-P220

IMC100-1GT1GF-P48、
IMC100-1GT1GF-P220

IMC100-1GT1GS-P48、
IMC100-1GT1GS-P220

IMC100-2GT1GF-P48、
IMC100-2GT1GF-P220

IMC100-2GT1GS-P48、
IMC100-2GT1GS-P220

IMC100-1T1F-2P48

IMC100-2T1F-2P48

Specification

Standard & Protocol	IEEE 802.3 for 10Base-T
	IEEE 802.3u for 100Base-TX and 100BaseFX
	IEEE 802.3z for 1000Base-X

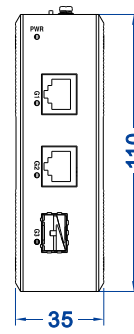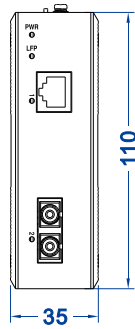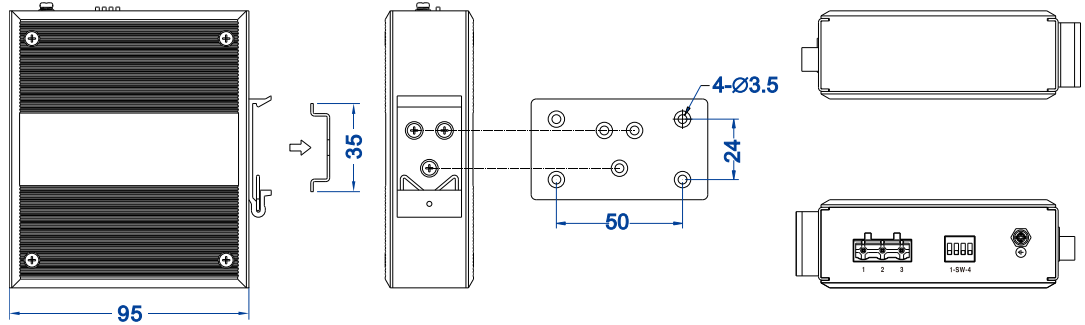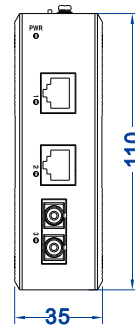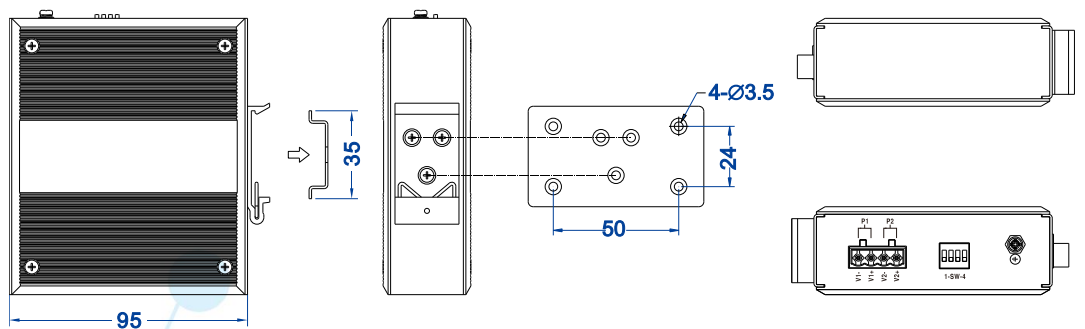|	
	IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow Control IEEE 802.1Q for VLAN
Interface	100M copper port: 10/100Base-T(X), RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/ MDI-X Autotunning 100M fiber port: 100Base-FX, optional SC/ST/FC Gigabit copper port: 10/100/1000Base-T(X), RJ45, Automatic Flow Control, Full/Half Duplex Mode, MDI/MDI-X Autotunning Gigabit fiber port: 1000Base-FX, optional SC/ST/FC Gigabit SFP: 1000Base-FX SFP slot
Indicator	Interface Indicator, Power Supply Indicator, LFP Indicator(1 copper port and 1 fiber port product only)
Switch Property	IMC100-1T1F-P48, IMC100-1T1F-P220, IMC100-2T1F-P48, IMC100-2T1F-P220, IMC100-1T1F-2P48, IMC100-2T1F-2P48 ● MAC address: 2K ● Backplane bandwidth: 1G ● Transmission mode: store and forward IMC100-1GT1GF-P48, IMC100-1GT1GF-P220, IMC100-1GT1GS-P48, IMC100-1GT1GS-P220, IMC100-2GT1GF-P48, IMC100-2GT1GF-P220, IMC100-2GT1GS-P48, IMC100-2GT1GS-P220, ● MAC address: 2K ● Backplane bandwidth: 18.2G ● Transmission mode: store and forward
Power Supply	Single power supply: DC/AC power supply (optional), 12~48VDC or 100~240VAC/DC, 3-pin 7.62 pitch terminal blocks Dual power supply: 12~48VDC, 4-pin 5.08mm pitch terminal blocks

Power Consumption	Available Models	No-load	Full-load
	IMC100-1T1F-P48		
	IMC100-1T1F-2P48	1.0W	1.1W
	IMC100-2T1F-2P48		
	IMC100-2T1F-P220	1.2W	1.5W
	IMC100-1GT1GS-P220	1.5W	2.0W
	IMC100-2GT1GF-P220	1.5W	2.5W

Working Environment	Operating temperature: -40~75℃

	Storage temperature:-40~85℃ Relative humidity: 5%～95% (no condensation)
Physical Characteristic	Housing: IP40 protection, metal Installation: DIN-Rail mounting Dimension (W x H x D): 35mm×110mm×95mm Weight: ● IMC100-1T1F-P48, IMC100-1T1F-2P48, IMC100-2T1F-2P48: 337g ● IMC100-2T1F-P220: 345g ● IMC100-1GT1GS-P220: 343g ● IMC100-2GT1GF-P220: 342g
Industrial Standard	IEC 61000-4-2 (ESD, electrostatic discharge), Level 3 ● Air discharge:± 8kV ● Contact discharge: ±6kV IEC 61000-4-4 (EFT, electrical fast transient), Level 3 ● Power supply: ±2kV ● Signal: ±1kV IEC61000-4-5 (Surge), Level 3 ● Power supply: differential mode±1kV, common mode±2kV ● Signal: differential mode±1kV, common mode±2kV Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Authentication	CE, FCC, RoHS
Warranty	5 years

Ordering Information

Available Models	100M Copper Port	100M Fiber Port	Gigabit Copper Port	Gigabit Fiber Port	Gigabit SFP	Power Supply
IMC100-1T1F-P48	1	1	-	-	-	12~48VDC
IMC100-2T1F-P48	2	1	-	-	-	
IMC100-1GT1GF-P48	-	-	1	1	-	
IMC100-1GT1GS-P48	-	-	1	-	1	
IMC100-2GT1GF-P48	-	-	2	1	-	
IMC100-2GT1GS-P48	-	-	2	-	1	
IMC100-1T1F-2P48	1	1	-	-	-	12~48VDC Redundant power supply
IMC100-2T1F-2P48	2	1	-	-	-	
IMC100-1T1F-P220	1	1	-	-	-	100~240VAC/DC
IMC100-2T1F-P220	2	1	-	-	-	
IMC100-1GT1GF-P220	-	-	1	1	-	
IMC100-1GT1GS-P220	-	-	1	-	1	
IMC100-2GT1GF-P220	-	-	2	1	-	
IMC100-2GT1GS-P220	-	-	2	-	1	