



## 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°C wide operating temperature range



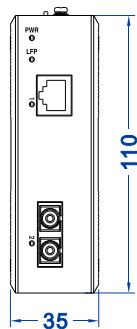
## Introduction

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.

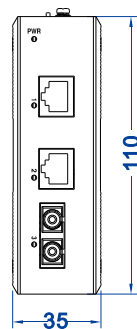
Product supports optional AC/DC power supply. The DIP switch could implement functions like jumbo frame, LFP, one-key VLAN or flow control. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial 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

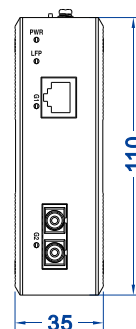
Unit: mm



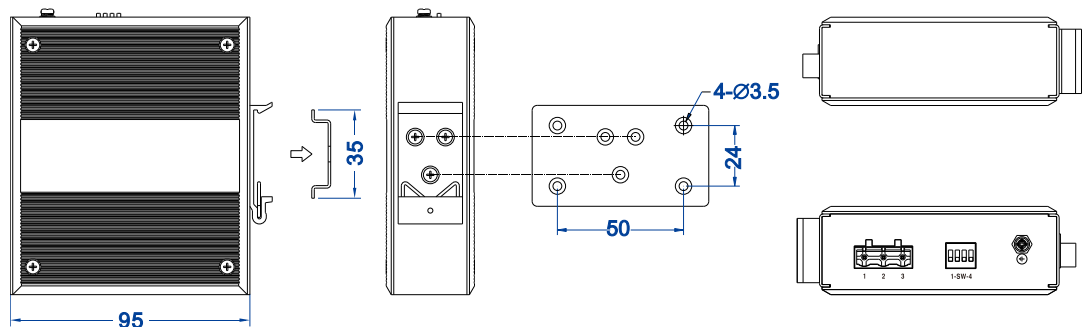
IMC100-1T1F-P48,  
IMC100-1T1F-P220

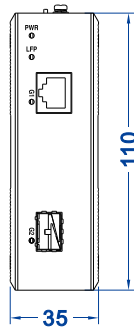


IMC100-2T1F-P48,  
IMC100-2T1F-P220

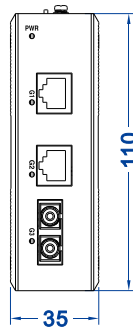


IMC100-1GT1GF-P48,  
IMC100-1GT1GF-P220

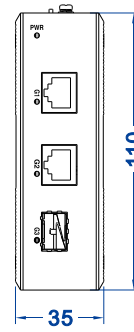




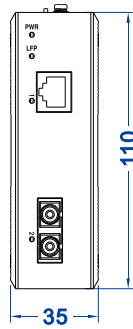
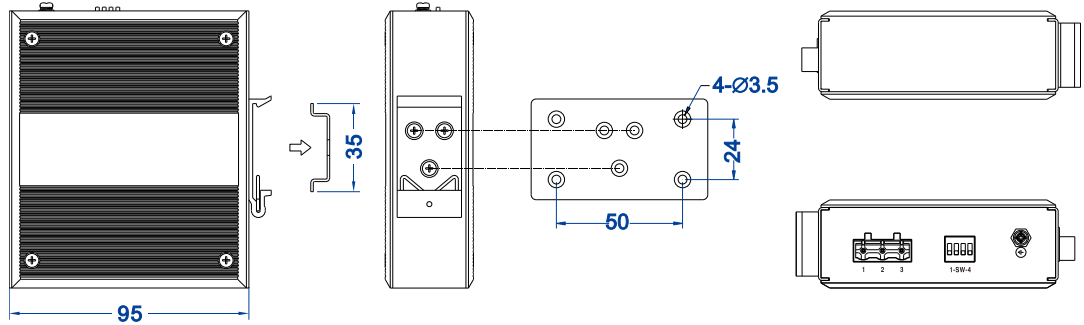
IMC100-1GT1GS-P48,  
IMC100-1GT1GS-P220



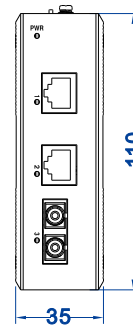
IMC100-2GT1GF-P48,  
IMC100-2GT1GF-P220



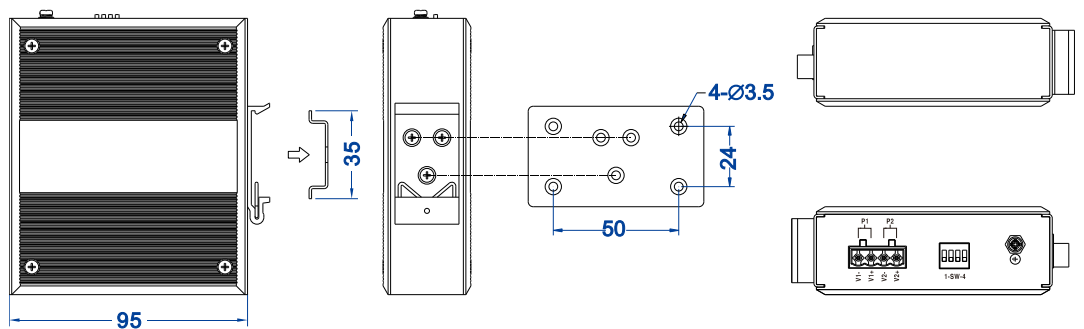
IMC100-2GT1GS-P48,  
IMC100-2GT1GS-P220



IMC100-1T1F-2P48



IMC100-2T1F-2P48



## Specification

Standard & Protocol

IEEE 802.3 for 10Base-T  
IEEE 802.3u for 100Base-TX and 100Base-FX  
IEEE 802.3z for 1000Base-X

	<p>IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow Control IEEE 802.1Q for VLAN</p>																					
<b>Interface</b>	<p>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 Gigabit copper port: 10/100/1000Base-T(X), RJ45, Automatic Flow Control, Full/Half Duplex Mode, MDI/MDI-X Autotuning Gigabit fiber port: 1000Base-FX, optional SC/ST/FC Gigabit SFP: 1000Base-FX SFP slot</p>																					
<b>Indicator</b>	<p>Interface Indicator, Power Supply Indicator, LFP Indicator(1 copper port and 1 fiber port product only)</p>																					
<b>Switch Property</b>	<p>IMC100-1T1F-P48, IMC100-1T1F-P220, IMC100-2T1F-P48, IMC100-2T1F-P220, IMC100-1T1F-2P48, IMC100-2T1F-2P48</p> <ul style="list-style-type: none"> <li>• MAC address: 2K</li> <li>• Backplane bandwidth: 1G</li> <li>• Transmission mode: store and forward</li> </ul> <p>IMC100-1GT1GF-P48, IMC100-1GT1GF-P220, IMC100-1GT1GS-P48, IMC100-1GT1GS-P220, IMC100-2GT1GF-P48, IMC100-2GT1GF-P220, IMC100-2GT1GS-P48, IMC100-2GT1GS-P220,</p> <ul style="list-style-type: none"> <li>• MAC address: 2K</li> <li>• Backplane bandwidth: 18.2G</li> <li>• Transmission mode: store and forward</li> </ul>																					
<b>Power Supply</b>	<p>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</p>																					
<b>Power Consumption</b>	<table border="1"> <thead> <tr> <th>Available Models</th> <th>No-load</th> <th>Full-load</th> </tr> </thead> <tbody> <tr> <td>IMC100-1T1F-P48</td> <td></td> <td></td> </tr> <tr> <td>IMC100-1T1F-2P48</td> <td>1.0W</td> <td>1.1W</td> </tr> <tr> <td>IMC100-2T1F-2P48</td> <td></td> <td></td> </tr> <tr> <td>IMC100-2T1F-P220</td> <td>1.2W</td> <td>1.5W</td> </tr> <tr> <td>IMC100-1GT1GS-P220</td> <td>1.5W</td> <td>2.0W</td> </tr> <tr> <td>IMC100-2GT1GF-P220</td> <td>1.5W</td> <td>2.5W</td> </tr> </tbody> </table>	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
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<b>Working Environment</b>	<p>Operating temperature: -40~75°C</p>																					

	<p>Storage temperature: -40~85°C</p> <p>Relative humidity: 5%~95% (no condensation)</p>
<b>Physical Characteristic</b>	<p>Housing: IP40 protection, metal</p> <p>Installation: DIN-Rail mounting</p> <p>Dimension (W x H x D): 35mm×110mm×95mm</p> <p>Weight:</p> <ul style="list-style-type: none"> <li>● IMC100-1T1F-P48, IMC100-1T1F-2P48, IMC100-2T1F-2P48: 337g</li> <li>● IMC100-2T1F-P220: 345g</li> <li>● IMC100-1GT1GS-P220: 343g</li> <li>● IMC100-2GT1GF-P220: 342g</li> </ul>
<b>Industrial Standard</b>	<p>IEC 61000-4-2 (ESD, electrostatic discharge), Level 4</p> <ul style="list-style-type: none"> <li>● Air discharge: ±15kV</li> <li>● Contact discharge: ±8kV</li> </ul> <p>IEC 61000-4-4 (EFT, electrical fast transient), Level 4</p> <ul style="list-style-type: none"> <li>● Power supply: ±4kV</li> <li>● Signal: ±2kV</li> </ul> <p>IEC61000-4-5 (Surge), Level 4</p> <ul style="list-style-type: none"> <li>● Power supply: differential mode±2kV, common mode±4kV</li> <li>● Signal: differential mode±2kV, common mode±4kV</li> </ul> <p>Shock: IEC 60068-2-27</p> <p>Free fall: IEC 60068-2-32</p> <p>Vibration: IEC 60068-2-6</p>
<b>Authentication</b>	CE, FCC, RoHS
<b>Warranty</b>	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
IMC100-2T1F-2P48	2	1	-	-	-	Redundant power supply
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	



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