# ORing

# *IMC-C121FB series*
## *Industrial Media Converter*

## Features

- ➢ Provides 2x 10/100Base-T(X) ports and 1x100Base-FX fiber port
- ➢ Compact size for easy installation
- ➢ QoS supported to process critical data in heavy traffic
- ➢ IP40 protection class
- ➢ -10 to 60°C wide operating temperature range
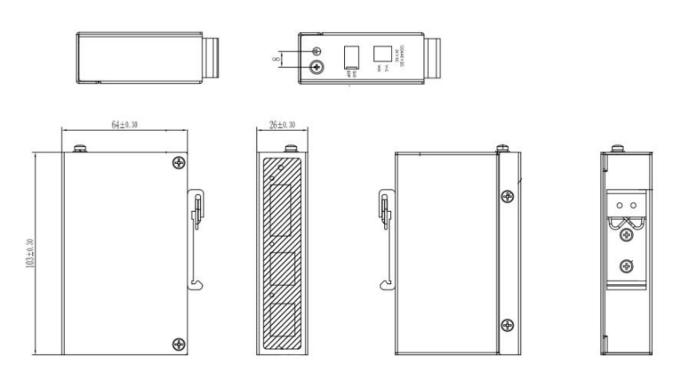- ➢ DIN-Rail mounting enabled

## Introduction

IMC-C121FB series industrial media converter with 2 x 10/100Base-T(X) ports and 1x100Base-FX fiber port. In addition, the wide operating temperature range from -10°C to 60°C can satisfy most of operating environment. Therefore, the device is one of the most reliable choices for Ethernet application.

# Dimension

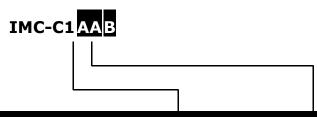# Specifications

| ORing Switch Model | | IMC-C121FB-MM | IMC-C121FB-SS |
|---|---|---|---|
| **Physical Ports** | | | |
| 10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX | | 2 | 2 |
| 100Base-F(X) | Fiber Ports Number | 1 | 1 |
| | Fiber Mode | Multi_mode | Single-mode |
| | Wavelength (nm ) | 1310nm | 1310nm |
| | Fiber Diameter (µm) | 62.5/125 µm 50/125 µm | 9/125 µm |
| | Connector | SC | SC |
| | Typical Distance (km) | 2KM | 30KM |
| **Technology** | | | |
| Ethernet Standards | | IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3x for Flow control | |
| MAC Table | | 1K MAC addresses | |
| Processing | | Store-and-Forward | |
| Packet Buffer Size: | | 448Kbits | |
| DIP Switch | | Quality of Service (QoS), Broadcast Storm Protection (BSP) | |

| Power | |
|---|---|
| Single Input Power | 9.6~60VDC/24VAC (18~30 VAC) on 2-pin terminal block. |
| Power Consumption | 3W |
| Overload Current Protection | Present |
| Reverse Polarity Protection | Present |
| **Physical Characteristic** | |
| Enclosure | IP-40 |
| Dimension (W x H x D) | 26× 103× 64 mm |
| **Environmental** | |
| Storage Temperature | -40 to 85ºC |
| Operating Temperature | -10 to 60ºC |
| Operating Humidity | 5% to 95% Non-condensing |
| **Regulatory approvals** | |
| EMC | CE EMC (EN 55035, EN 55032), FCC Part 15 B |
| EMI | EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A |
| EMS | EN 55035 ,EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 |
| Safety | EN/IEC62368-1 |
| **Warranty** | 5 years |

## Ordering Information

**IMC-C1AAB**

| Code Definition | 10/100Base-T(X) Port Number | Additional Port Number | Port Type |
|---|---|---|---|
| Option | - 2: 2 ports | - 1: 1 port | - MM: Multi-mode<br>- SS: Single-mode |

| | Model Name | Description |
|---|---|---|
| Available Model | IMC-C121FB-MM | Industrial Ethernet to fiber media converter with 2x10/100Base-T(X) and 1x100Base-FX, multi-mode, 2km/1310nm, SC connector |
| | IMC-C121FB-SS | Industrial Ethernet to fiber media converter with 2x10/100Base-T(X) and 1x100Base-FX,single-mode, 30km/1310nm, SC connector |