

# IMC-121FB Series



## Industrial mini type Ethernet to fiber media converter with 2x10/100Base-T(X) and 1x100Base-FX

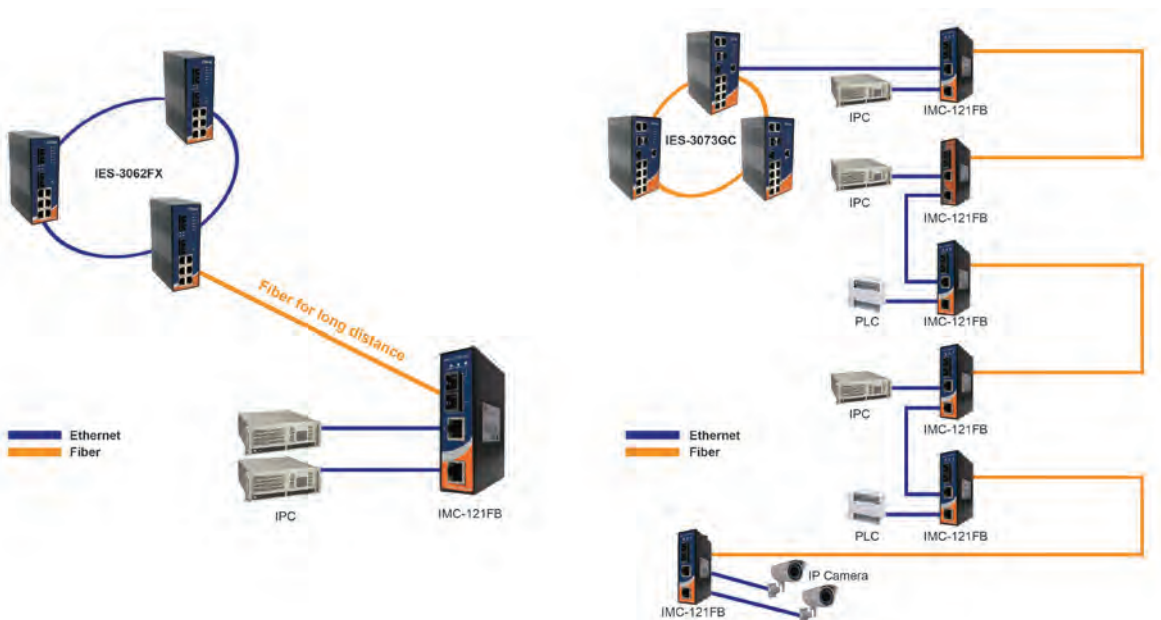
### Features

- Support 2 ports 10/100Base-T(X) auto-negotiation and auto-MDI/MDI-X
- 2x10/100 Base-T(X) ports to save the usage of copper ports
- High reliability and rigid IP-30 housing
- DIN-Rail and wall mounting enabled



### Introduction

IMC-121FB series are industrial media converters providing media conversion between 10/100Base-T(X) and 100Base-FX. IMC-121FB series feature rigid IP-30 housing design and support wide operating temperature range from -40 to 70 °C. Therefore, IMC-121FB series are reliable media converter and can satisfy most demands of operating environments.



Connections of Ethernet Media Converter

Industrial Ethernet Switch

Industrial Media Converter

Industrial Device Server

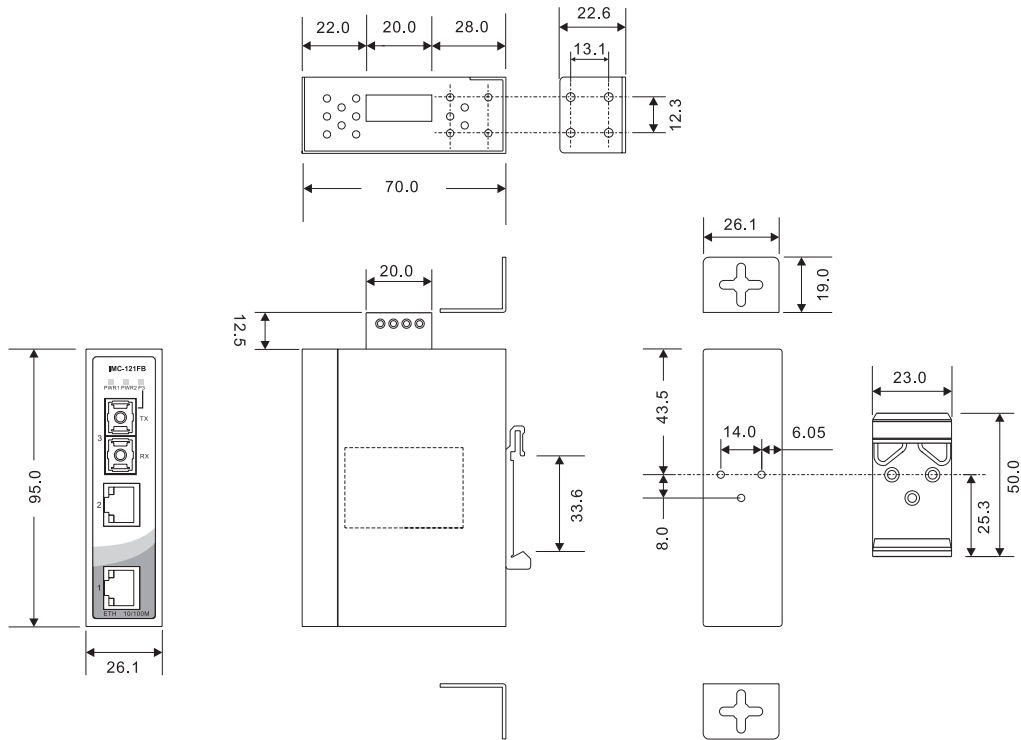
Industrial Wireless Access Point

Industrial Cellular VPN Router

Accessories

Network Management Utility

Dimensions



(Unit=mm)

Specifications

| ORing Media Converter Model                 |  | IMC-121FB-MM-SC  | IMC-121FB-SS-SC |
|---|--|--|-----------------|
| <b>Physical Ports</b>                       |  |  |                 |
| 10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX |  | 2  | 2               |
| <b>100Base-FX fiber Port</b>                |  |  |                 |
| Fiber Ports Specifications                  | Fiber Ports Number                     | 1  | 1               |
|   | Fiber Ports Standard                   | 100Base - FX   | 100Base - FX    |
|   | Fiber Mode                             | Multi-mode   | Single-mode     |
|   | Fiber Diameter (µm)                    | 62.5/125 µm<br>50/125 µm   | 9/125 µm        |
|   | Fiber Optical Connector                | SC   | SC              |
|   | Typical Distance (km)                  | 2 km   | 30 km           |
|   | Wavelength (nm)                        | 1310 nm  | 1310 nm         |
|   | Max. Output Optical Power (dBm)        | -14 dBm  | -8 dBm          |
|   | Min. Output Optical Power (dBm)        | -23.5 dBm  | -15 dBm         |
|   | Max. Input Optical Power (Saturation)  | 0 dBm  | 0 dBm           |
|   | Min. Input Optical Power (Sensitivity) | -31 dBm  | -34 dBm         |
|   | Link Budget (dB)                       | 7.5 dB   | 19 dB           |
| <b>Technology</b>                           |  |  |                 |
| Ethernet Standards                          |  | IEEE 802.3 for 10Base-T<br>IEEE 802.3u for 100Base-TX and 100Base-FX |                 |

| LED Indicators                              |  |
|---|--|
| Power Indicator                             | Green : Power LED x 2  |
| 10/100Base-T(X) RJ45 Port Indicator         | Green for port Link/Act. Amber for Duplex/Collision  |
| 100Base-FX Fiber Port Indicator             | Green for fiber port Link/Act  |
| Power                                       |  |
| Input Power                                 | Dual 12~48 VDC power input at 4-pin terminal block   |
| Power Consumption (Typ.)                    | 4.5 Watts  |
| Overload Current Protection                 | Present  |
| Reverse Polarity Protection                 | Present  |
| Physical Characteristics                    |  |
| Enclosure                                   | IP-30  |
| Dimensions (W x D x H)                      | 26.1 (W) x 70 (D) x 95 (H)mm (1.03 x 2.76 x 3.74 inch)   |
| Weight (g)                                  | 210 g  |
| Environmental                               |  |
| Storage Temperature                         | -40 to 85°C (-40 to 185°F)   |
| Operating Temperature                       | -40 to 70°C (-40 to 158°F)   |
| Operating Humidity                          | 5% to 95% Non-condensing   |
| Regulatory Approvals                        |  |
| EMI   | FCC Part 15, CISPR (EN55022) class A   |
| EMS   | 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 |
| Shock                                       | IEC60068-2-27  |
| Free Fall                                   | IEC60068-2-32  |
| Vibration                                   | IEC60068-2-6   |
| Safety                                      | EN60950-1  |
| MTBF (Hours) (MIL-HDBK-217F2, GB, GC, 25°C) | 1,023,458  |
| Warranty                                    | 5 years  |

## Ordering Information

IMC-1 **A** **B** **C** **B** - **DD** - **EE**

| Code Definition | 10/100Base-T(X) Port Number | Fiber Port Number   | Fiber Port Type         | Fiber Optical Mode                                    | Fiber Optical Connector    |
|-----------------|-----------------------------|---------------------|-------------------------|---|----------------------------|
| <b>Option</b>   | - <b>2</b> : 2 port         | - <b>1</b> : 1 port | - <b>F</b> : 100Base-FX | - <b>MM</b> : Multi-mode<br>- <b>SS</b> : Single-mode | - <b>SC</b> : SC Connector |

|                 | Model Name      | Description   |
|-----------------|-----------------|---|
| Available Model | IMC-121FB-MM-SC | Industrial mini type Ethernet to fiber media converter with 2x10/100Base-T(X) and 1x100Base-FX, multi-mode, 2km/1310nm, SC connector  |
|                 | IMC-121FB-SS-SC | Industrial min type Ethernet to fiber media converter with 2x10/100Base-T(X) and 1x100Base-FX, single-mode, 30km/1310nm, SC connector |

### Packing List

- IMC-121FB
- DIN-Rail Kit
- Wall-Mount Kit
- Quick Installation Guide

### Optional Accessories (Can be purchased separately)

- DR-45 series, 45W DIN-Rail power supply
- DR-75 series, 75W DIN-Rail power supply
- DR-120 series, 120W DIN-Rail power supply
- SDR-240-48, 240W DIN-Rail power supply
- SDR-480-48, 480W DIN-Rail power supply
- FPC series : Fiber Patch cord

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