

RMC-121FB Series

➔ **Industrial rack-mount card type Ethernet to fiber media converter with 2x10/100Base-T(X) and 1x100Base-FX**

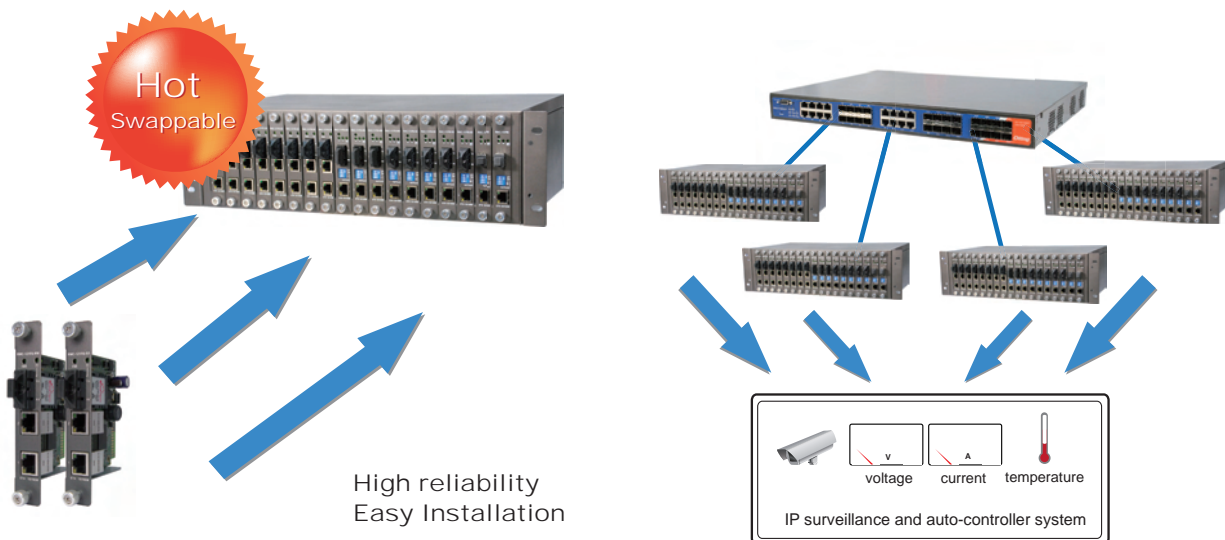
Features

- Each converter supports two 10/100Base-T(X) ports with auto-negotiation and auto-MDI/MDI-X
- Support Ethernet to fiber port conversion for long distance communication
- 2 x 10/100 Base-T(X) ports to save the usage of copper ports
- Support store-and-forward transmission
- Hot-swappable, high reliability and easy installation
- Up to 18 slots of high-density installation in RMC-1000 chassis on the 19-inch rack

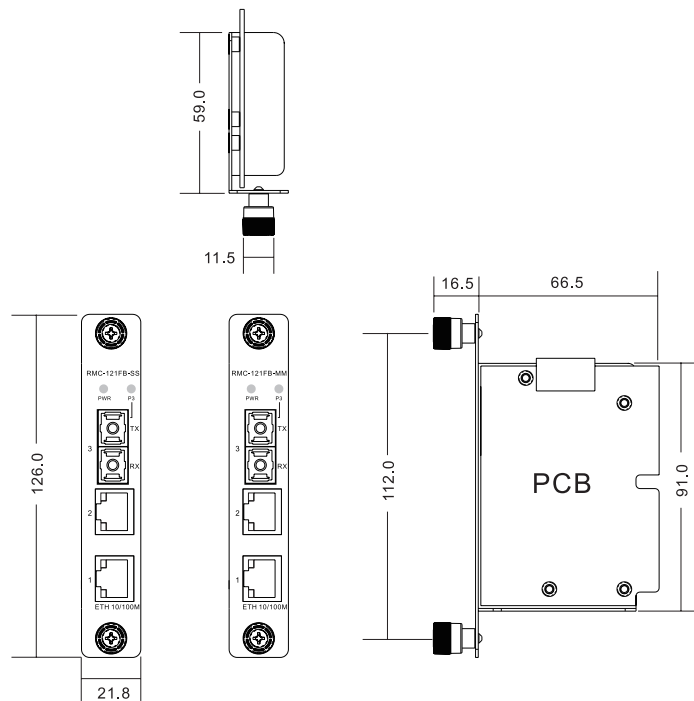


Introduction

RMC-121FB series are industrial rack-mount card type Ethernet to fiber media converters for the rack-mount chassis box of RMC-1000, as these converters are hot-swappable and can be easily installed on RMC-1000. RMC-121FB series provide media conversion between 2x10/100Base-T(X) and 1x100Base-FX. RMC-121 series allow you to extend communication distance by optical fiber. RMC-121FB series support MDI/MDIX auto detection, so you don't need to use crossover wires. Therefore, the RMC-121FB series, with RMC-1000 as their host, are reliable media converters that can satisfy most demands of operating environment.



Dimensions



(Unit=mm)

Specifications

| ORing Card-Type Media Converter Model | | RMC-121FB-MM-SC | RMC-121FB-SS-SC |
|---|--|--------------------------|-----------------|
| Physical Ports | | | |
| 10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX | | 2 | 2 |
| 100Base-FX fiber Port | | | |
| 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 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) | 0dB | 0 dBm |
| | Min. Input Optical Power (Sensitivity) | -31 dBm | -34 dBm |
| | Link Budget (dB) | 7.5 dB | 19 dB |
| Technology | | | |
| Ethernet Standards | IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3x for flow control | | |
| Processing | Store-and-Forward | | |

| LED Indicators | |
|-------------------------------------|--|
| Power Indicator | Green : Power LED x 1 |
| 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 | |
| Power Consumption (Typ.) | 4.5 Watts |
| Overload Current Protection | Present |
| Physical Characteristics | |
| Dimensions (W x D x H) | 21.8 (W) x 73.1 (D) x 126 (H) mm |
| Weight (g) | 137 g |
| Environmental | |
| Storage Temperature | -40 to 85°C(-40 to 185°F) |
| Operating Temperature | -10 to 60°C (14 to 140°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 |
| Warranty | 2 years |

Ordering Information

RMC-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 |
|-----------------|-----------------------------|---------------------|-------------------------|---|----------------------------|
| Option | - 2 : 2 port | - 1 : 1 port | - F : 100Base-FX | - MM : Multi-mode - SS : Single-mode | - SC : SC Connector |

| | Model Name | Description |
|---|-----------------|---|
| Available Model | RMC-121FB-MM-SC | Industrial Rack-mount card type Ethernet to fiber media converter with 2x10/100Base-T(X) and 1x100Base-FX, multi-mode, 2km/1310nm, SC connector |
| | RMC-121FB-SS-SC | Industrial Rack-mount card type Ethernet to fiber media converter with 2x10/100Base-T(X) and 1x100Base-FX, single-mode, 30km/1310nm, SC connector |
| Packing List <ul style="list-style-type: none"> RMC-121FB Quick Installation Guide | | Optional Accessories (Can be purchased separately) <ul style="list-style-type: none"> FPC series : Fiber Patch cord |