RMC-121FB Series

IMC-121FB

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

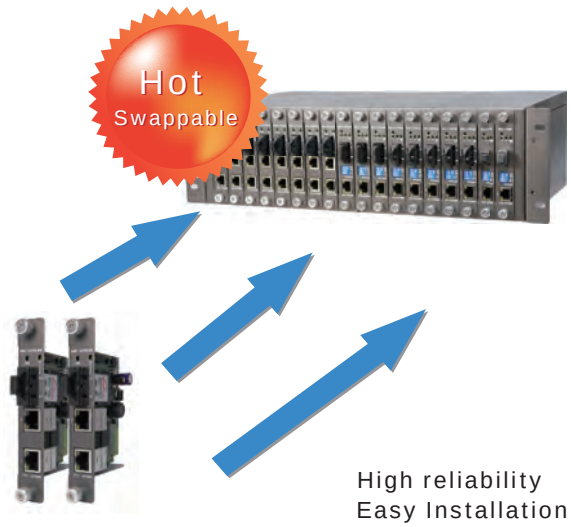
Features

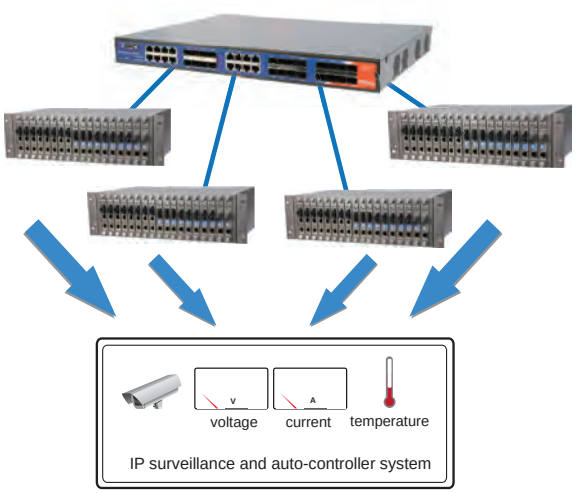
- Each converter supports two 10/100Base-T(X) ports with auto-negotiation and auto-MDI/MDI-X
- Support Ethernet to fiber port conversion for long distance communication
- 2 x 10/100 Base-T(X) ports to save the usage of copper ports
- Support store-and-forward transmission
- Hot-swappable, high reliability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



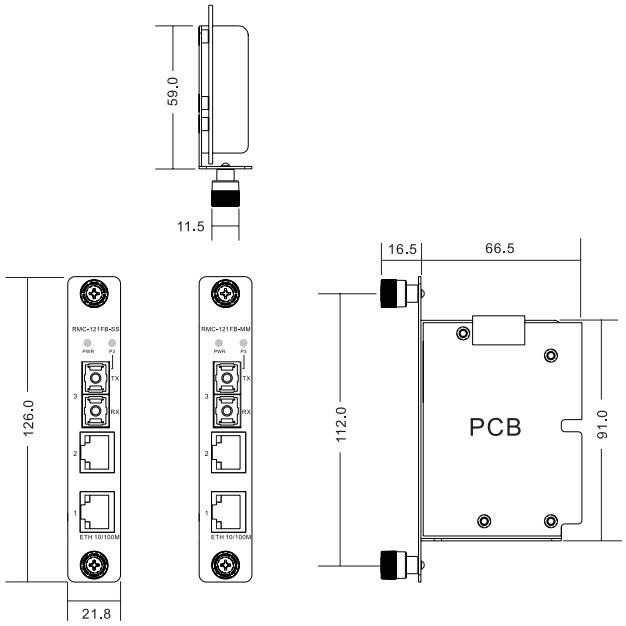
Introduction

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 802.3xfor flow control	
Processing		Store-and-Foward	

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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

- RMC-121FB
- Quick Installation Guide

Optional Accessories (Can be purchased separately)

- FPC series : Fiber Patch cord

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