

# RMC-121FB Series



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

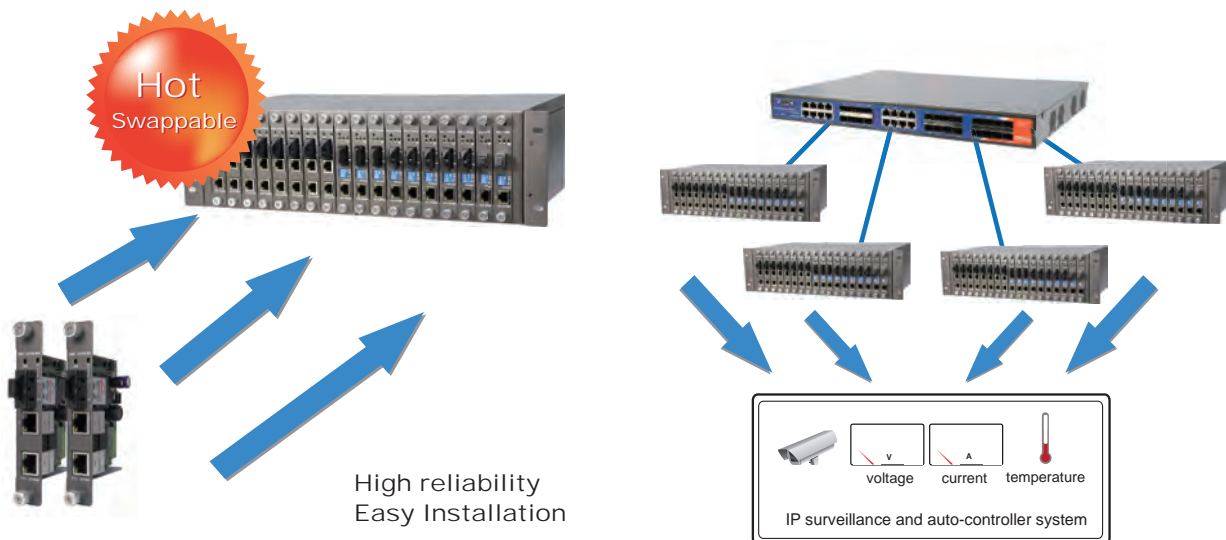
## Features

- 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

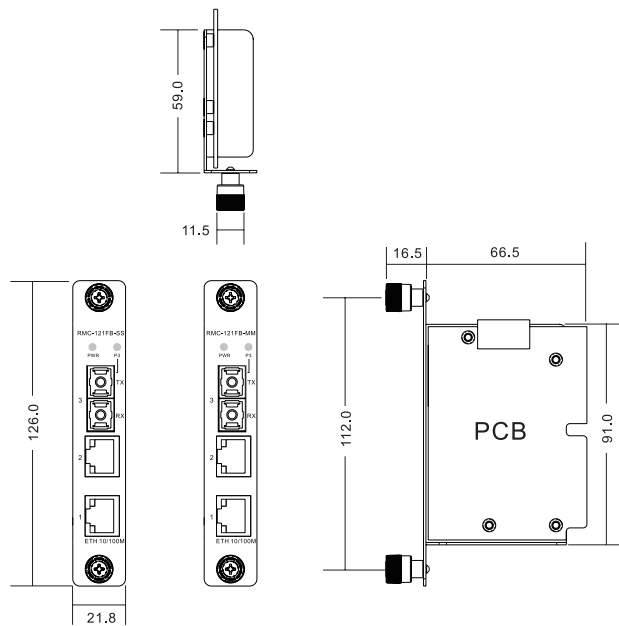


## Introduction

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
<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 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
<b>Technology</b>			
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
<b>Option</b>	- <b>2</b> : 2 port	- <b>1</b> : 1 port	- <b>F</b> : 100Base-FX	- <b>MM</b> : Multi-mode - <b>SS</b> : Single-mode	- <b>SC</b> : 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
<b>Packing List</b> <ul style="list-style-type: none"> <li>RMC-121FB</li> <li>Quick Installation Guide</li> </ul>		<b>Optional Accessories (Can be purchased separately)</b> <ul style="list-style-type: none"> <li>FPC series : Fiber Patch cord</li> </ul>