RMC-111FB Series / RMC-111PB

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

Features

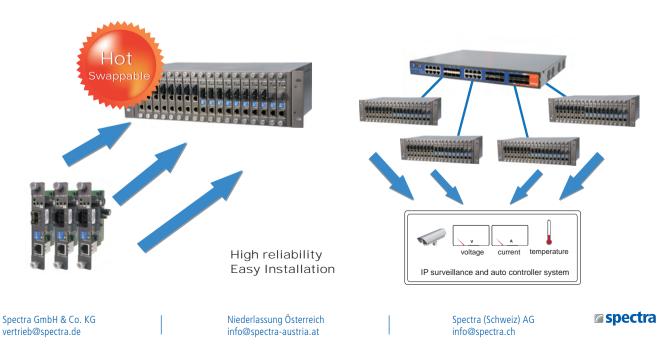
- Each converter supports one 10/100Base-T(X) port with autonegotiation and auto-MDI/MDI-X
- Support Ethernet to fiber or Ethernet to SFP port for long distance communication
- Support LFP (Link Fault Pass-through) function
- Support full/half duplex operation
- Support store-and-forward transmission
- Provide DIP-Switches for function setting
- Hot-swappable, High reliability and easy installation
- Up to 18 slots of high-density installation in RMC-1000 chassis on the 19-inch rack

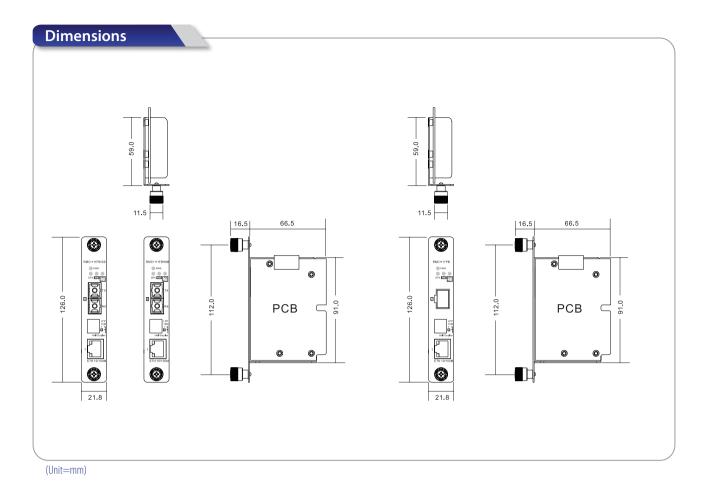


Introduction

RMC-111 series are industrial rack-mount card type Ethernet to fiber media converters for the rack-mount chassis box of RMC-1000, as these card type converters are hot-swappable and can be easily installed on RMC-1000. RMC-111 series are the cost-effective solution for the conversion between 10/100Base-T(X) and 100Base-FX interface, allowing you to extend communication distance by optical fiber. RMC-111 series support MDI/MDIX auto detection, so you don't need to use crossover wires.

RMC-111 series also support the **LFP (Link Fault Pass-through)** feature. When one side of the link fails, the other side continues transmitting packets and waits for a response that never arrives from the disconnected side. Use the DIP–Switch to enable the LFP function, then RMC-111 series will force the link to shutdown as soon as noticed that the other link has failed, giving the application software a sign to react to the situation. Therefore, the RMC-111 series, with RMC-1000 as their host, are reliable media converters that can satisfy most demands of operating environments.





Specifications

ORing Card-Type	Media Converter Model	RMC-111FB-MM	-111FB-MM RMC-111FB-SS			
Physical Ports						
10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX		1	1	1		
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)	0 dBm	0 dBm	-		
	Min. Input Optical Power (Sensitivity)	-31 dBm	-34 dBm	-		
	Link Budget (dB)	7.5 dB	19dB	-		
100Base-FX SFP port		-	-	1		
echnology						
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				

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DIP-Switch setting	DIP-Switch 1 for LFP mode selection : (ON) enable / (OFF) disable DIP-Switch 2 for Ethernet speed selection : (ON) 10Mbps / (OFF) 10/100Mbps Auto-negotiate DIP-Switch 3 for Ethernet full/half duplex selection : (ON) Half-duplex / (OFF) Full/Half-Duplex Auto-negotiate DIP-Switch 4 for fiber full/half duplex selection : (ON) Half-Duplex / (OFF) Full-Duplex			
LED Indicators				
Power / Indicator	Green : Power LED x 1			
10/100Base-T(X) RJ45 port indicator	Green for port Link/Act Amber for 100Mbps indicator Green for port duplex indicator			
100Base-FX fiber port indicator	Green for fiber port Link/Act - (ON) Link up / (Blinking) Acting / (OFF) Link down Green for fiber port duplex indicator — (ON) Full-Duplex / (OFF) Half-Duplex			
LFP statue indicator	Amber for link fault detected and passed			
Power				
Power consumption (Typ.)	2.2 Watts			
Reverse Polarity Protection	Present			
Physical Characteristics				
Dimensions (W x D x H)	21.8 (W) x 73.1 (D) x 126 (H) mm			
Weight (g)	145 g	140 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

Code Definition	10/100/1000Base-T(X) Port Number	100Base-FX Fiber Port Number	Fiber Port Type	Fiber Optical Mode	Fiber Optical Connector			
Option	- 1: 1 port	- 1: 1 port	- F : 100Base-FX Fiber - P : 100Base-FX SFP	- MM : Multi-mode - SS : Single-mode	- SC: SC connector			
Available Model	Model Name	Description						
	RMC-111FB-MM-SC	Industrial Rack-mount card type Ethernet to fiber media converter with 1x10/100Base–T(X) and 1x100Base–FX, multi-mode, 2km/1310nm, SC connector Art. No. 126140						
	RMC-111FB-SS-SC	ndustrial Rack-mount card type Ethernet to fiber media converter with 1x10/100Base–T(X) and 1x100Base–FX, single–mode, 30km/1310nm, SC connector Art. No. 126141						
	RMC-111PB	Industrial Rack-mount card type Ethernet to fiber media converter with 1x10/100Base–T(X) and 1x100Base–FX, SFP socket Art. No. 126142						
Packing List • RMC-111FB/111PB • Quick Installation Guide		Optional Accessories (Can be purchased separately) FPC series : Fiber Patch cord 						