



## 4 Port 100Mbps Media Converter

### Overview

Service providers offering Metro Ethernet services to their customers need a way to bridge the distance between the central office (CO) or point-of-presence (POP) to the customer's premises. This is usually achieved by running fiber optic cable up to the customer premises or nearby. Since the customer premises and the vicinity around it, are typically wired with copper, there is a need for simple and affordable fiber to copper media conversion. RealTime 4-10/100 Base-TX ports Media Converter **RMC-4EF** is designed to cater this requirement.



The 4-port 10/100 Base-TX (UTP) to 100 Base-FX media converter **RMC-4EF** provides a media conversion between fiber optic and twisted copper pair segments. With 10/100 Base-T support, the converters provide seamless translation between Ethernet and Fast Ethernet networks and provide a robust, full wire speed switching fabric to integrate the different workgroups and LAN segments. A complete set of visual indicators allows for quick status verification of the Ethernet ports.

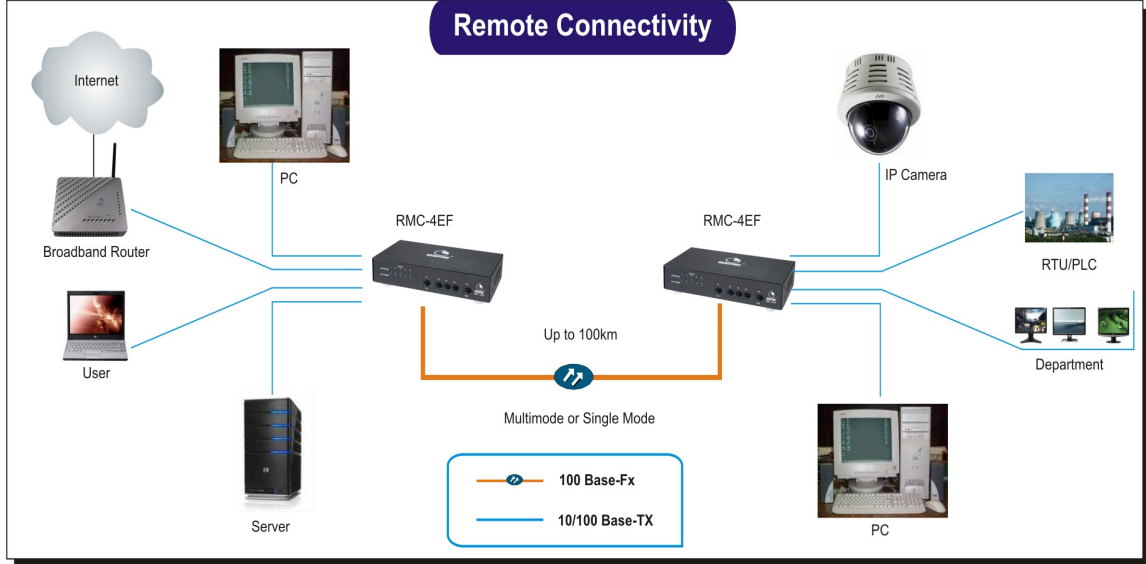
### Key Features

- Provides TX<--> FX Converter modes
- 10Mbps and 100Mbps speed on UTP connections in compliance with IEEE802.3i, IEEE802.3u
- Supports Store-and-forward switching to improve overall network performance by buffering packets during heavy congestion and to prevent the forwarding of corrupted packets.
- A high-performance switching engine that performs forwarding and filtering at full wire speed (148,800 packets per second)
- Supports MAC address learning & aging.
- Supports Storm control for Broadcast packets(159/10ms for 100Mbps 159/100ms for 10Mbps)
- Supports 802.3x flow control for full duplex and backpressure for half duplex.
- Supports Auto-Negotiation (NWay protocol) on UTP ports.
- Auto MDI/MDI-X detection function on the UTP ports to correct connection polarity errors.
- Provide manual configuration settings for UTP ports to support connection to non-auto-negotiation devices.
- Supports 1K MAC addresses
- Transparent VLAN support
- Supports Ethernet frame size up to 1552 bytes.
- It does not increase hop count in the network
- Power supply options 220VAC/48VDC
- Supports dip switches for following configurations.
  - Auto negotiation/Force mode.
  - 10 Base-T/100 Base-TX
  - Half Duplex/Full Duplex.
- Supports following LED indications for Fiber / Ethernet ports.
  - Link/Act Green
- Power LED Yellow
- Used as a stand-alone device



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### Applications



### Specification

Model	RMC-4EF
<b>Twisted-Pair Interfaces (UTP Ports)</b>	
No of UTP ports	4
Connector	RJ-45
Link Length	100m
Recommended Cable Types	10Mbps- Category 3, 4, or 5e UTP, 100Mbps-Category 5e UTP
Signal Compliance	IEEE 802.3 10Base-T, 802.3u 100Base-TX
Protocol	CSMA / CD
Duplex	Full/Half Duplex
Data Transfer rate	10/100 Auto Mbps Full Duplex
MAC addresses	1K
Auto MDIX	Yes, Auto-negotiation capable and forced settings optional
<b>Fiber Optic Interface (FX Port)</b>	
No of Fiber ports	1
Connector	Dual Fiber SC, Single fiber SC
Fiber Cable Type	Single /Multi Mode, Single/Dual Fiber
Standards	802.3u (100 Base-FX)
Data Transfer rate	100 Mbps Half/Full Duplex
Wavelength	1310/1550nm
Supported Link Distance	As per specifications (From 2Km in MM to 100Km in SM)
Eye Safety compliance	IEC825 Class 1
<b>LED Indications</b>	
Fiber port	Link/Act
UTP port	Link/Act
	Power LED
Power	220V AC nominal (range 160V to 260V) or -48V DC (Range 36V to 60V)
Power Consumption	6 Watt.
Operating Temperature	0°C ~ 50°C.
Dimension	177(L) x122(W) x43 45 (H) mm
Housing	Metallic box
Mounting	Desktop



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### Ordering Information

Product Model No.	Wavelength (nm)	Single/ Dual Fiber	Single/ Multi mode	Power Supply	Supported Link Distance(Km)
RMC-4EFMDA-05	1310	Dual	MM	AC	5
RMC-4EFMDDX-05	1310	Dual	MM	DC	5
RMC-4EFSDA-25	1310	Dual	SM	AC	25
RMC-4EFSDDX-25	1310	Dual	SM	DC	25
RMC-4EFSDA-40	1310	Dual	SM	AC	40
RMC-4EFSDDX-40	1310	Dual	SM	DC	40
RMC-4EFSDA-60	1310	Dual	SM	AC	60
RMC-4EFSDDX-60	1310	Dual	SM	DC	60
RMC-4EFSDA-100	1310	Dual	SM	AC	100
RMC-4EFSDDX-100	1310	Dual	SM	DC	100
RMC-4EFSSA-20A	1310T/1550R	Single	SM	AC	20
RMC-4EFSSA-20B	1550T/1310R	Single	SM	AC	20
RMC-4EFSDDX-20A	1310T/1550R	Single	SM	AC	20
RMC-4EFSDDX-20B	1550T/1310R	Single	SM	DC	20

**Note:** "X" is 48V DC powering option. Other variations of DC powering are also available on request. Please contact factory for other options.

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