FMC-TRRM Series 10/100 Mbps Ethernet
2-Port, Rack-Mount Media Converter

- Extends range of Ethernet IP network from 328 feet (100 m) to 2 miles (3 km)
- No in-field optical adjustments required
- Hot-swappable rack modules
- Interchangeable between standalone or rack-mount use
- Lifetime Warranty

The FMC Series provides a low-cost and effective solution for extending the range of your video network. The FMC-TRRM-A and B Ethernet 2-port media converters are designed to transmit and receive 10/100 Mbps Ethernet data over multimode optical fiber. he electrical interface will Auto-Negotiate to a 10 Mbps or 100 Mbps Ethernet rate without any adjustments. The optical interface operates at a 100 Mbps Ethernet rate.

Ordered as a pair, with a set consisting of one A and one B model, these media converters are environmentally hardened to operate in extreme conditions. LED indicators are provided for confirming equipment operating status. These units may be wall or rack mounted using the optional FMC-RK Rack-Mount Card Cage.

Specifications

Data Transmission

Data Interface:	Ethernet
Data Rate:	10/100 Mbps Ethernet Optical Port supports Full Duplex; Electrical port supports Auto-Negotiation for 10 Mbps or 100 Mbps, full duplex or half duplex data. Automatic medium dependent interface crossover (MDI/MDI-X)
Number of Fibers:	1
Wavelength:	10/100 Mbps Ethernet (1310 nm/1550 nm)
Fiber Type:	Multimode
Fiber Connectors:	ST
Transmission Distance:	2 miles (3 km)

Connectors

Optical	ST Connector, 1 Fiber
Power:	Terminal Block
Electrical:	RJ-45
LED Indicators:	- Optical Link/Data Activity - Power

Electrical & Mechanical

Power Requirements:	9 VDC supplied from rack. For external power supply, 8- 24 VDC @ 1 A.
Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Protection:	Voltage transient protection on all power and signal input/output lines provides unconditional protection from power surges and other voltage transient events.
Certifications:	CE; FCC Class A; UL and RoHS compliant

Environmental

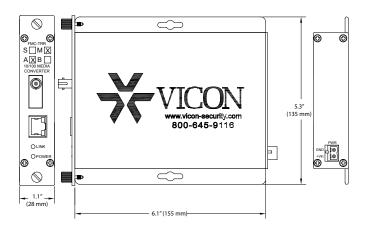|	
MTBF:	>100,000 hours
Operating Temp:	-40ºC to +75ºC
Storage Temp:	-40ºC to +85ºC
Relative Humidity:	0% to 95% (non-condensing)*
Compliance:	IEEE 802.3 compliant. Designed to meet full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/low-line voltage conditions and transient voltage protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.

* May be extended to condensation conditions.

- Number of Rack Slots: 1
- Wall or Rack Mountable
- Length: 6.1" (155 mm)
- Width: 5.3" (135 mm)
- Height: 1.1" (28 mm)
- Weight: <2 lb (0.9 kg)

Ordering Information

Model Number	Description
FMC-TRRM-A	10/100 Mbps Ethernet, 2-Port, Rack-Mount Media Converter utilizing ST connectors (1310 nm). Ordered as a set with one A and one B model required.
FMC-TRRM-B	10/100 Mbps Ethernet, 2-Port, Rack-Mounted, Media Converter utilizing ST connectors (1550 nm). Ordered as a set with one A and one B model required.

Accessories and Options

Model Number	Description
FMC-RK	14-slot card-cage with internal power supply.
FMC-BP	Blank panel for rack. Used to cover open slots in the rack.
Optional	Add additional "/C" for Conformally Coated Circuit Boards (extra charge, consult factory)

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