

## FMC-TRM Series 10/100 Mbps Ethernet, 2-Port AC/DC Powered Mini Media Converter



- Extends range of Ethernet IP network from 328 feet (100 m) to 2 miles (3 km)
- No in-field optical adjustments required
- AC/DC powered
- Lifetime Warranty

The FMC Series provides a low-cost and effective solution for extending the range of your video network. The FMC-TRM-A and B Ethernet 2-port media converters are designed to transmit and receive 10/100 Mbps data over multimode optical fiber. The 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 temperatures. LED indicators are provided for rapidly ascertaining equipment operating status. The units are small sized for surface mounting where space is at a premium.

### Specifications

#### Data Transmission

<b>Data Interface:</b>	Ethernet
<b>Data Rate:</b>	10/100 Mbps 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)
<b>Number of Fibers:</b>	1
<b>Wavelength:</b>	10/100 Mbps Ethernet (1550 nm/1310 nm)
<b>Fiber Type:</b>	Multimode
<b>Fiber Connectors:</b>	ST
<b>Transmission Distance:</b>	2 miles (3 km)
<b>Optical Power Budget</b>	10 dB

#### Connectors

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

#### Electrical & Mechanical

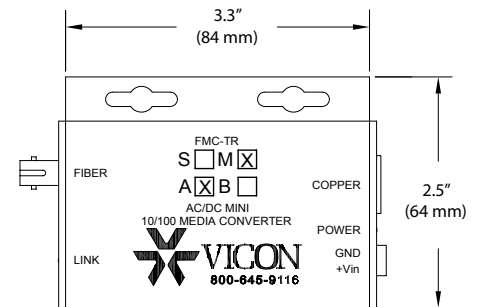
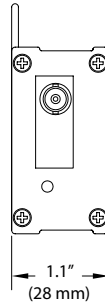
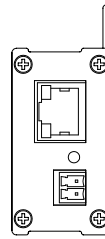
<b>Power Requirements:</b>	22-27 VAC @ 100 mA or 8-24 VDC @ 220 mA
<b>Current Protection:</b>	Automatic Resettable Solid-State Current Limiters
<b>Circuit Board Protection:</b>	Meets IPC Standard Voltage transient protection on all power and signal input/output lines provides unconditional protection from power surges and other voltage transient events.
<b>Certifications:</b>	CE; FCC Class A; UL and RoHS compliant.

#### Environmental

<b>MTBF:</b>	>100,000 hours
<b>Operating Temp:</b>	-40°C to +75°C
<b>Storage Temp:</b>	-40°C to +85°C
<b>Relative Humidity:</b>	0% to 95% (non-condensing)*
<b>Compliance:</b>	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.

- Length: 3.3" (84 mm)
- Width: 2.5" (64 mm)
- Height: 1.1" (28 mm)
- Weight: <2 lbs. (0.9 kg)



## Ordering Information

Model Number	Description
<b>FMC-TRM-A</b>	10/100 Mbps Ethernet, 2-Port, AC/DC powered, Mini Media Converter utilizing ST connectors (1310 nm) with power supply. Ordered as a set with one A and one B model required.
<b>FMC-TRM-B</b>	10/100 Mbps Ethernet, 2-Port, AC/DC powered, Mini Media Converter utilizing ST connectors (1550 nm) with power supply. Ordered as a set with one A and one B model required.
<b>Optional</b>	Add additional "/C" for Conformally Coated Circuit Boards (extra charge, consult factory)

Data Sheet Number: V218  
Dated: 12/2010

Vicon Data Sheet Part Number: 8009-7218-00-00  
Specifications subject to change without notice.

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