

XX216-00-01

FMC-TRM/TRRM Series Media Converters

FC   RoHS

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Vicon Industries Inc. does not warrant that the functions contained in this equipment will meet your requirements or that the operation will be entirely error free or perform precisely as described in the documentation. This system has not been designed to be used in life-critical situations and must not be used for this purpose.

www.vicon-security.com

General

The FMC-TRM and TRRM Series Media Converters convert 10/100 Mbps Fast Ethernet from an electrical signal to an optical signal and back to an electrical signal. The electrical connection uses an RJ45 data connector. The optical connector is an ST type.

The media converters are transceivers, 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 TRM series are small sized units designed for surface mounting where space is at a premium. The TRRM series are standard size units that may be wall or rack mounted using the optional FMC-RK Rack-Mount Card Cage.

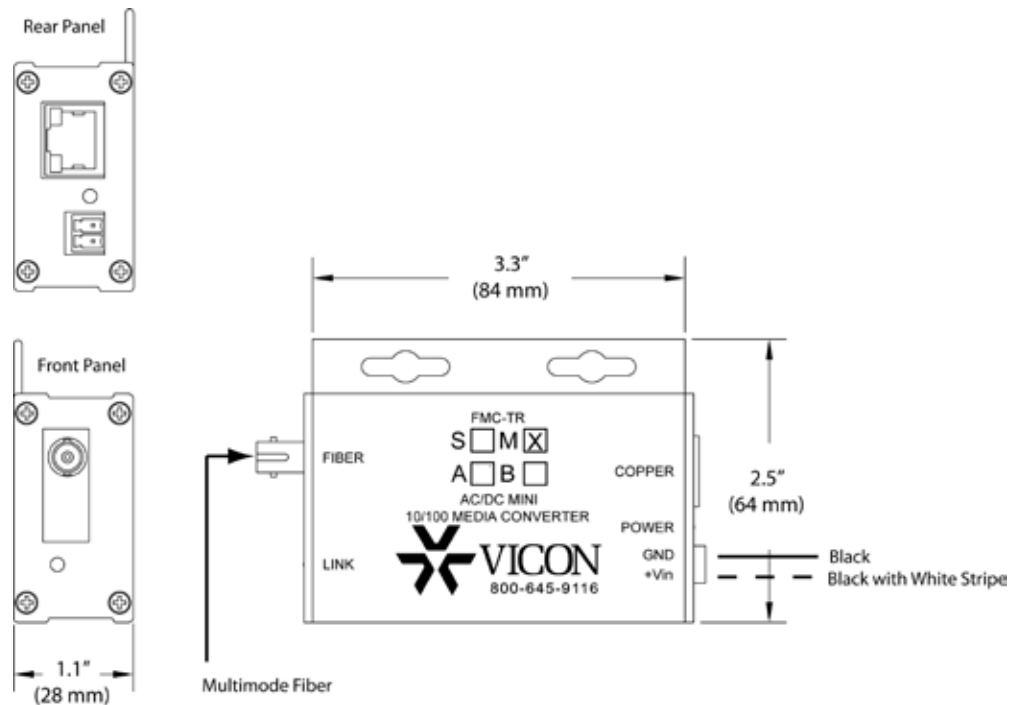


Figure 1. FMC-TRM unit

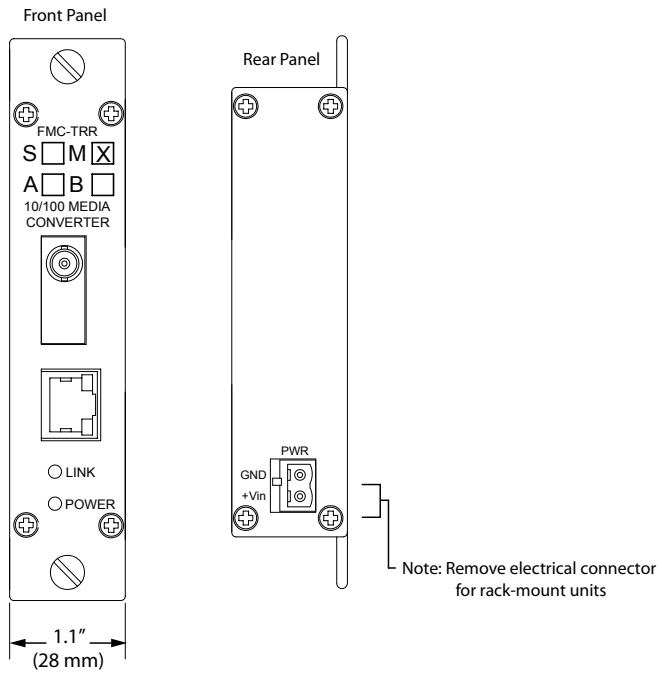
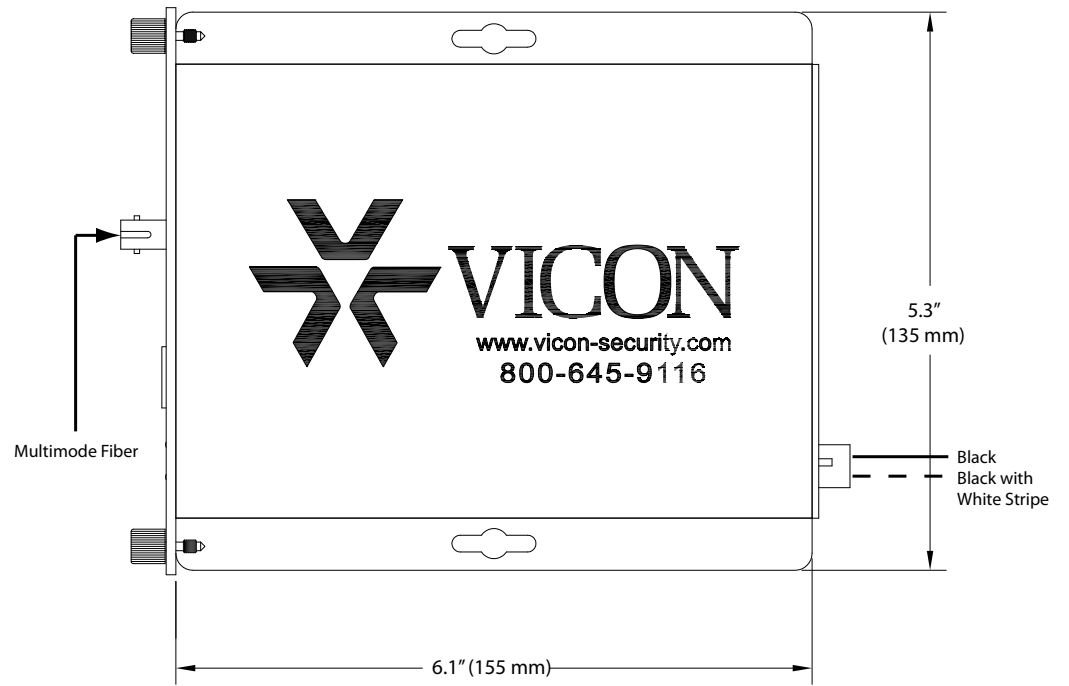
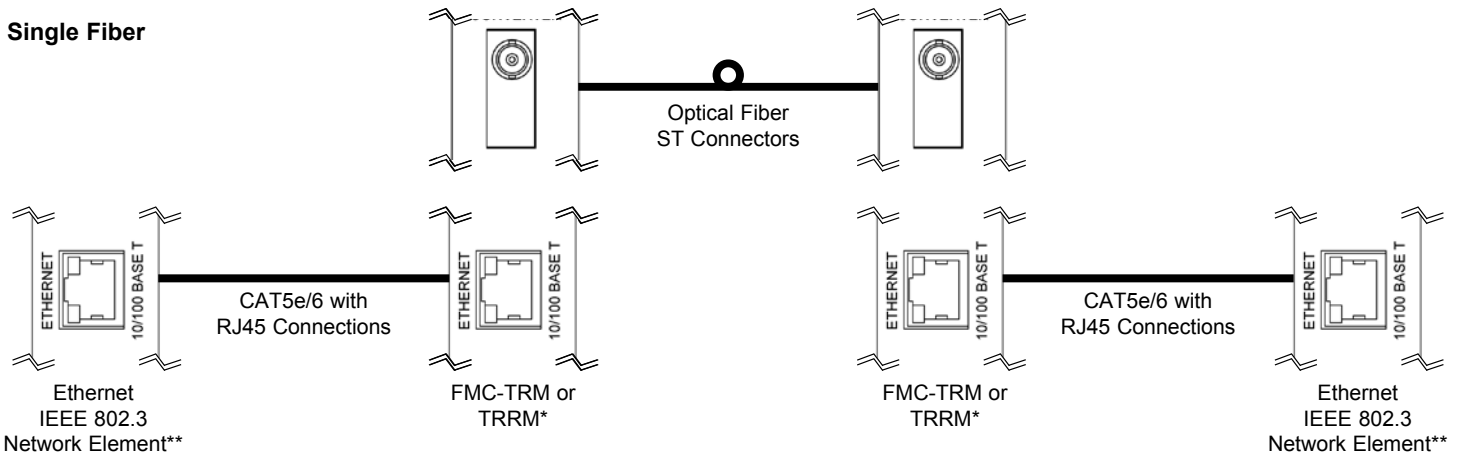


Figure 2. FMC-TRRM unit

FMC Units LED Indicators Description

	POWER	LINK	LINK (RJ-45)	Speed (RJ-45)
GREEN Off	Not connected to power	No optical link	No UTP link	N/A
GREEN Steady On	Properly powered	Optical link established; not passing optical data	UTP link established; not passing optical data	N/A
GREEN Flashing	N/A	Optical link established; passing optical data	UTP link established; passing optical data	N/A
YELLOW Off	N/A	N/A	N/A	10 Mbps Ethernet connection established
YELLOW Steady On	N/A	N/A	N/A	100 Mbps Ethernet connection established

Single Fiber



*These devices are used in A/B pairs; each system requires an A and a B unit.

**Ethernet IEEE 802.3 Network Element determined by user.

Figure 3. Typical Ethernet Configuration

Installation

INSTALLATION CONSIDERATIONS

Install the FMC-TRM units as required using “best practice” procedures. The FMC-TRRM units may be wall mounted using “best practice” procedures. To install the FMC-TRRM in the FMC-RK Card Cage, proceed as follows.

WARNING: Although the units are hot-swappable and may be installed without turning power off to the rack, it is recommended that the power supply be turned off and that the rack power supply is disconnected from any power source.

Note: Remove electrical connector before installing in card cage rack.

1. Make sure that the card is oriented right side up and slide it into the card guides in the rack until the edge connector at the back of the card seats in the corresponding slot in the rack’s connector panel. Seating may require thumb pressure on the top and bottom of the card’s front panel.

CAUTION: Take care not to press on any of the LEDs.

2. Tighten the two thumb screws on the card until the front panel of the card is seated against the front of the rack.

WARNING: If a FMC-TRRM unit is installed in a FMC-RK, a 9 VDC power supply is in the rack. If the unit requires an external power supply, a Listed Class 2 or Linear Power Supply (LPS) rated at 8 - 24 VDC @ 1A should be used. The FMC-TRM unit requires either a 8 - 24 VDC @ 1A or 22 - 27 VAC @ 0.5 A power supply.

IMPORTANT SAFEGUARDS:

- A) Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.
- B) Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Shipping Instructions

Use the following procedure when returning a unit to the factory:

1. Call or write Vicon for a Return Authorization (R.A.) at one of the locations listed below. Record the name of the Vicon employee who issued the R.A.

Vicon Industries Inc.
89 Arkay Drive
Hauppauge, NY 11788
Phone: 631-952-2288; Toll-Free: 1-800-645-9116; Fax: 631-951-2288

For service or returns from countries in Europe, contact:

Vicon Industries (U.K.) Ltd
Brunel Way
Fareham, PO15 5TX
United Kingdom
Phone: +44 (0)1489/566300; Fax: +44 (0)1489/566322

2. Attach a sheet of paper to the unit with the following information:
 - a. Name and address of the company returning the unit
 - b. Name of the Vicon employee who issued the R.A.
 - c. R. A. number
 - d. Brief description of the installation
 - e. Complete description of the problem and circumstances under which it occurs
 - f. Unit's original date of purchase, if still under warranty
3. Pack the unit carefully. Use the original shipping carton or its equivalent for maximum protection.
4. Mark the R.A. number on the outside of the carton on the shipping label.

Vicon Standard Equipment Warranty

Vicon Industries Inc. (the "Company") warrants your equipment to be free from defects in material and workmanship under Normal Use from the date of original retail purchase for a period of three years, with the following exceptions:

1. Monitors, all models: One year from date of original retail purchase.
2. Uninterruptible Power Supplies: Two years from date of original retail purchase.
3. VDR-700 Recorder Series: One year from date of original retail purchase.
4. V5616MUX: One year from date of original retail purchase.
5. Arecont Cameras: One year from date of original retail purchase.
6. FMC series fiber-optic media converters and associated accessories: Lifetime warranty.
7. For PTZ cameras, "Normal Use" excludes prolonged use of lens and pan-and-tilt motors, gear heads, and gears due to continuous use of "autopan" or "tour" modes of operation. Such continuous operation is outside the scope of this warranty.
8. Any product sold as "special" or not listed in Vicon's commercial price list: One year from date of original retail purchase.

Date of retail purchase is the date original end-user takes possession of the equipment, or, at the sole discretion of the Company, the date the equipment first becomes operational by the original end-user.

The sole remedy under this Warranty is that defective equipment be repaired or (at the Company's option) replaced, at Company repair centers, provided the equipment has been authorized for return by the Company, and the return shipment is prepaid in accordance with policy.

The Company will not be obligated to repair or replace equipment showing abuse or damage, or to parts which in the judgment of the Company are not defective, or any equipment which may have been tampered with, altered, misused, or been subject to unauthorized repair.

Software supplied either separately or in hardware is furnished on an "As Is" basis. Vicon does not warrant that such software shall be error (bug) free. Software support via telephone, if provided at no cost, may be discontinued at any time without notice at Vicon's sole discretion. Vicon reserves the right to make changes to its software in any of its products at any time and without notice.

This Warranty is in lieu of all other conditions and warranties express or implied as to the Goods, including any warranty of merchantability or fitness and the remedy specified in this Warranty is in lieu of all other remedies available to the Purchaser.

No one is authorized to assume any liability on behalf of the Company, or impose any obligations on it in connection with the sale of any Goods, other than that which is specified above. In no event will the Company be liable for indirect, special, incidental, consequential, or other damages, whether arising from interrupted equipment operation, loss of data, replacement of equipment or software, costs or repairs undertaken by the Purchaser, or other causes.

This warranty applies to all sales made by the Company or its dealers and shall be governed by the laws of New York State without regard to its conflict of laws principles. This Warranty shall be enforceable against the Company only in the courts located in the State of New York.

The form of this Warranty is effective May 4, 2012.

THE TERMS OF THIS WARRANTY APPLY ONLY TO SALES MADE WHILE THIS WARRANTY IS IN EFFECT. THIS WARRANTY SHALL BE OF NO EFFECT IF AT THE TIME OF SALE A DIFFERENT WARRANTY IS POSTED ON THE COMPANY'S WEBSITE, WWW.VICON-SECURITY.COM. IN THAT EVENT, THE TERMS OF THE POSTED WARRANTY SHALL APPLY EXCLUSIVELY.

Vicon Industries Inc.

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