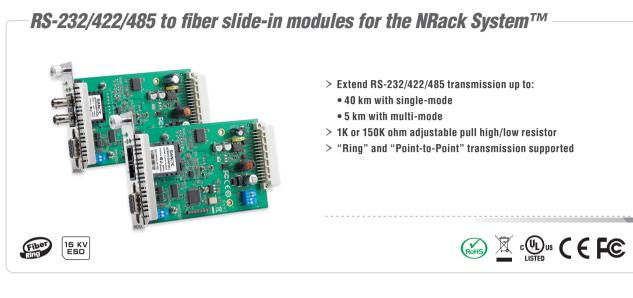
# **TCF-142-RM Series**



## **:** Introduction

The TCF-142-RM series of serial-to-fiber converters are slide-in modules that work with the TRC-190 chassis. The modules convert

## **:** Automatic Baudrate Detection

The TCF-142-RM series can automatically detect the serial baudrate. This is an extremely convenient feature. Even if a device's baudrate

## : Specifications

#### **Optical Fiber Side**

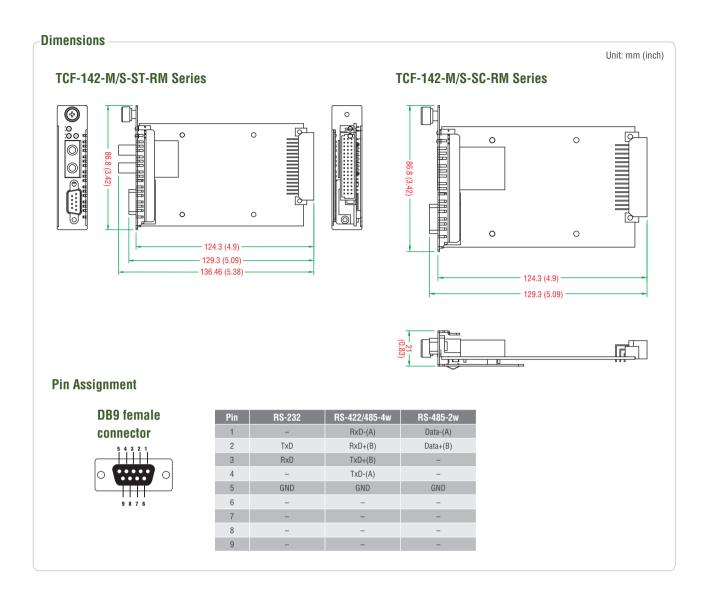
Fiber Connector: SC or ST **Cable Requirements:** Single-mode: 8.3/125, 8.7/125, 9/125, or 10/125 µm Multi-mode: 50/125, 62.5/125, or 100/140 µm Transmission Distance: Single-mode: 40 km Multi-mode: 5 km Wavelength: Single-mode: 1310 nm Multi-mode: 850 nm Tx Output: Single-mode: > -5 dBm Multi-mode: > -5 dBm **Rx Sensitivity:** Single-mode: -25 dBm Multi-mode: -20 dBm Point-to-Point Transmission: Half-duplex or full-duplex Ring Transmission: Half-duplex RS-232/422/485 Side Connector: DB9 RS-232 Signals: TxD, RxD, GND RS-422 Signals: TxD+, TxD-, RxD+, RxD-, GND RS-485-4w Signals: TxD+, TxD-, RxD+, RxD-, GND RS-485-2w Signals: Data+, Data-, GND Baudrate: 50 bps to 921.6 kbps ESD Protection: 15 kV for all signals

from the RS-232, RS-422, or RS-485 signal to a fiber optic signal.

is changed, the signal will still be transmitted through the media converter without any problem.

#### **Physical Characteristics**

Dimensions: 86.8 x 136.5 x 21 mm (3.42 x 5.37 x 0.83 in) **Environmental Limits** Operating Temperature: 0 to 60°C (32 to 140°F) Storage Temperature: -20 to 75°C (-4 to 167°F) Ambient Relative Humidity: 5 to 95% (non-condensing) **Power Requirements** Input Voltage: 12 VDC Power Consumption: 150 mA @ 12 V **Standards and Certifications** EMC: CE, FCC EMI: FCC Part 15 Subpart B Class A EMS: EN 61000-4-2 (ESD) Level 3, EN 61000-4-3 (RS) Level 2, EN 61000-4-4 (EFT) Level 2, EN 61000-4-5 (Surge) Level 2, EN 61000-4-6 (CS) Level 2, EN 61000-4-8 (PFMF) Level 3 Freefall: IEC 60068-2-32 Green Product: RoHS, CRoHS, WEEE **MTBF** (mean time between failures) Time: 514,926 hrs Database: Telcordia (Bellcore), GB Warrantv Warranty Period: 5 years Details: See www.moxa.com/warranty



## **Crdering Information**

#### Available Models

TCF-142-M-SC-RM: RS-232/422/485 to multi-mode fiber slide-in module converter, SC connector TCF-142-M-ST-RM: RS-232/422/485 to multi-mode fiber slide-in module converter, ST connector TCF-142-S-SC-RM: RS-232/422/485 to single-mode fiber slide-in module converter, SC connector TCF-142-S-ST-RM: RS-232/422/485 to single-mode fiber slide-in module converter, ST connector TCF-142-S-ST-RM: RS-232/422/485 to single-mode fiber slide-in module converter, ST connector TCF-142-S-ST-RM: RS-232/422/485 to single-mode fiber slide-in module converter, ST connector TCF-142-S-ST-RM: RS-232/422/485 to single-mode fiber slide-in module converter, ST connector TCF-142-S-ST-RM: RS-232/422/485 to single-mode fiber slide-in module converter, ST connector TCF-142-S-ST-RM: RS-232/422/485 to single-mode fiber slide-in module converter, ST connector TCF-142-S-ST-RM: RS-232/422/485 to single-mode fiber slide-in module converter, ST connector TCF-142-S-ST-RM: RS-232/422/485 to single-mode fiber slide-in module converter, ST connector TCF-142-S-ST-RM: RS-232/422/485 to single-mode fiber slide-in module converter, ST connector TCF-142-S-ST-RM: RS-232/422/485 to single-mode fiber slide-in module converter, ST connector TCF-142-S-ST-RM: RS-232/422/485 to single-mode fiber slide-in module converter, ST connector TCF-142-S-ST-RM: RS-232/422/485 to single-mode fiber slide-in module converter, ST connector TCF-142-S-ST-RM: RS-232/422/485 to single-mode fiber slide-in module converter, ST connector TCF-142-S-ST-RM: RS-232/422/485 to slide-in module converter, ST connector TCF-142-S-ST-RM: RS-232/485 to slide-in module converter, ST connector TCF-142-S-ST-RM:

### Package Checklist -

- 1 TCF-142-RM fiber converter
- Quick installation guide (printed)
- Warranty card