TCC-120/120I

Industrial RS-422/485 converters/repeaters with optional 2 kV isolation



- > Boost serial signal to extend transmission distance
- > Wall- or DIN-rail mounting
- > Terminal block for easy wiring
- > Power input from terminal block
- > DIP switch setting for built-in terminator (120 ohm)
- > Boost RS-422 or RS-485 signal, or convert RS-422 to RS-485
- > 2 kV isolation protection (TCC-120I)



: Introduction

2 KV Isolation

The TCC-120 and TCC-120I are RS-422/485 converters/repeaters designed to extend RS-422/485 transmission distance. Both products have a superior industrial-grade design that includes DIN-rail

Specifications

Serial Communication

Connectors: Terminal Block on both ends Baudrate: 50 bps to 921.6 kbps Signals: RS-422/485-4w: TxD+, TxD-, RxD+, RxD-RS-485-2w: Data+, Data-RS-485 Data Direction Control: ADDC® (Automatic Data Direction Control) Optical Isolation: 2 kV (TCC-120I only)

Physical Characteristics

Housing: Metal Dimensions: 67 x 100.4 x 22 mm (2.64 x 3.93 x 0.87 in) Weight: 148 g (0.33 lb)

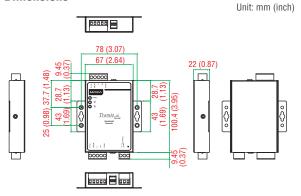
Environmental Limits

Operating Temperature: -20 to 60°C (-4 to 140°F) Storage Temperature: -20 to 75°C (-4 to 167°F) Ambient Relative Humidity: 5 to 95% (non-condensing)

Power Requirements

Source of Power Input: Power input jack Input Voltage: 12 to 48 VDC

Dimensions



mounting, terminal block wiring, and an external terminal block for power. In addition, the TCC-120I supports optical isolation for system protection. The TCC-120 and TCC-120I are ideal RS-422/485 converters/repeaters for critical industrial environments.

Input Current:

TCC-120: 65 mA @ 12 VDC TCC-120I: 180 mA @ 12 VDC Voltage Reversal Protection: Protects against V+/V- reversal **Overcurrent Protection:** Protects against two signals shorted together **Standards and Certifications**

Safety: UL 60950-1 EMC: EN 55022/24 EMI: CISPR 22, FCC Part 15B Class B EMS: EN 61000-4-2 (ESD): Contact: 4 kV; Air: 8 kV EN 61000-4-3 (RS): 80 MHz to 1 GHz: 3 V/m EN 61000-4-4 (EFT): Power: 1 kV; Signal: 0.5 kV EN 61000-4-5 (Surge): Power: 1 kV EN 61000-4-6 (CS): 150 kHz to 80 MHz: 3 V/m EN 61000-4-8 (PFMF) Green Product: RoHS, CRoHS, WEEE **MTBF** (mean time between failures) Time: 1,949,025 hrs

Standard: Telcordia (Bellcore), GB Warrantv

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Ordering Information

Available Models

TCC-120: RS-422/485 converter/repeater TCC-120I: RS-422/485 converter/repeater with 2 kV optical isolation

Package Checklist

1 TCC-120 or TCC-120I media converter

- Power wiring: DBL-JTB-10
- Mounting kit: DK35A
- Quick installation guide (printed)
 - Rubber pad



Serial Media Converters > TCC-120/120