TCC-100/100I Series

-Industrial RS-232 to RS-422/485 converters with optional 2 KV isolation



- > RS-232 to RS-422 conversion with RTS/CTS support
- > RS-232 to 2-wire or 4-wire RS-485 conversion
- > 2 KV isolation protection (TCC-100I)
- > Wall and DIN-Rail mounting
- > Plug-in terminal block for easy RS-422/485 wiring
- > LED indicators for power, Tx, Rx
- > Wide temperature model available (-40 to 85°C)



: Introduction

The TCC-100/100I series RS-232 to RS-422/485 converters increase networking capability by extending the RS-232 transmission distance. Both converters have a superior industrial-grade design that includes

Specifications

RS-232 Side

Connector: DB9 female Signals: TxD, RxD, RTS, CTS, GND RS-422/485 Side

Connector: Terminal Block

Signals:

(interface selected by DIP switch) RS-422: TxD+, TxD-, RxD+, RxD-, RTS, CTS, GND RS-485-4w: TxD+, TxD-, RxD+, RxD-, GND RS-485-2w: Data+, Data-, GND **RS-485 Data Direction Control:** ADDC® (automatic data direction control)

Serial Communication

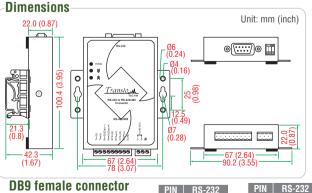
Baudrate: 50 bps to 921.6 Kbps ESD Protection: 15 KV Optical Isolation: 2 KV (TCC-100I/100I-T)

Physical Characteristics

Housing: Aluminum Dimensions: 67 x 100.4 x 22 mm (2.64 x 3.93 x 0.87 in) Weight: 148 ± 5 g

Environmental Limits

Operating Temperature: Standard Models: -20 to 60°C (-4 to 140°F) Wide Temp. Models: -40 to 85°C (-40 to 185°F)



 JB9 female connector
 PIN
 RS-232
 PIN
 RS-232

 1
 5
 GND

 2
 TxD
 6

 3
 RxD
 7
 CTS

 4
 8
 RTS

DIN-rail mounting, terminal block wiring, external terminal block for power, and optical isolation (TCC-100I and TCC-100I-T only). The TCC-100/100I series converters are ideal solutions for converting RS-232 signals to RS-422/485 in critical industrial environments.

Storage Temperature: -40 to 85°C (-40 to 185°F) Ambient Relative Humidity: 5 to 95% (non-condensing) Power Requirements

Source of Input Power: Power input jack Input Voltage: 12 to 48 VDC Power Consumption: TCC-100/100-T: 300 mA @ 12 V TCC-100I/100I-T: 400 mA @ 12 V Voltage Reversal Protection: Protects against V+/V- reversal Over Current Protection: Protects against two signals shorted together

Standards and Certifications

Safety: UL 60950-1 EMC: CE, FCC EMI: FCC Part 15 Subpart B Class B EMS: IEC 61000-4-2 (ESD) Level 2, IEC 61000-4-3 (RS) Level 2, IEC 61000-4-4 (EFT) Level 2, IEC 61000-4-5 (Surge) Level 2, IEC 61000-4-6 (CS) Level 2, IEC 61000-4-8 (SFMF) Level 1 Green Product: RoHS, CROHS, WEEE

MTBF (mean time between failures) Time: 3,017,857 hrs

Database: MIL-HDBK-217F

Warranty

Warranty Period: 5 years Details: See www.moxa.com/warranty

Crdering Information

Available Models / Package Checklist

TCC-100: RS-232 to RS-422/485 converter, -20 to 60°C operating temperature TCC-100: RS-232 to RS-422/485 converter with

optical isolation, -20 to 60°C

- 1 TCC-100/100I media converter DK-35A: DIN-Rail mounting kit
- Power jack to 3-pin terminal block
 adaptor
- Quick installation guide (printed)
- Warranty card

operating temperature **TCC-100-T:** RS-232 to RS-422/485 converter, -40 to 85°C operating temperature

TCC-100I-T: RS-232 to RS-422/485 converter with optical isolation, -40 to 85°C operating temperature