

# TCC-100/100I Series

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



## Features and Benefits

- 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 mounting and DIN-rail mounting
- Plug-in terminal block for easy RS-422/485 wiring
- LED indicators for power, Tx, Rx
- Wide-temperature model available for -40 to 85°C environments

## Certifications



## Introduction

The TCC-100/100I Series of RS-232 to RS-422/485 converters increases networking capability by extending the RS-232 transmission distance. Both converters have a superior industrial-grade design that includes DIN-rail mounting, terminal block wiring, an 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.

## Specifications

### Serial Interface

Baudrate	50 bps to 921.6 kbps (supports non-standard baudrates)
Connector	Terminal block
Isolation	TCC-100I/100I-T: 2 kV (-I model)
No. of Ports	2
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms
RS-485 Data Direction Control	ADDC® (automatic data direction control)
Serial Standards	RS-232, RS-422, RS-485
Terminator for RS-485	N/A, 120 ohms, 120 kilo-ohms

### Serial Signals

RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND

## Power Parameters

Input Current	TCC-100/100-T: 85 mA @ 12 VDC TCC-100I/100I-T: 150 mA @ 12 VDC
Input Voltage	12 to 48 VDC
No. of Power Inputs	1
Overload Current Protection	Supported
Power Connector	Terminal block (for DC models)
Power Consumption	TCC-100/100-T: 85 mA @ 12 VDC TCC-100I/100I-T: 150 mA @ 12 VDC

## Physical Characteristics

Housing	Metal
Dimensions	67 x 100.4 x 22 mm (2.64 x 3.93 x 0.87 in)
IP Rating	IP30
Weight	148 g (0.33 lb)
Installation	DIN-rail mounting (with optional kit), Wall mounting

## 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)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

## Standards and Certifications

EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF
Environmental Testing	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-3
Safety	EN 60950-1, IEC 60950-1
Vibration	IEC 60068-2-6

## MTBF

Time	3,017,857 hrs
Standards	Telcordia (Bellcore), GB

## Warranty

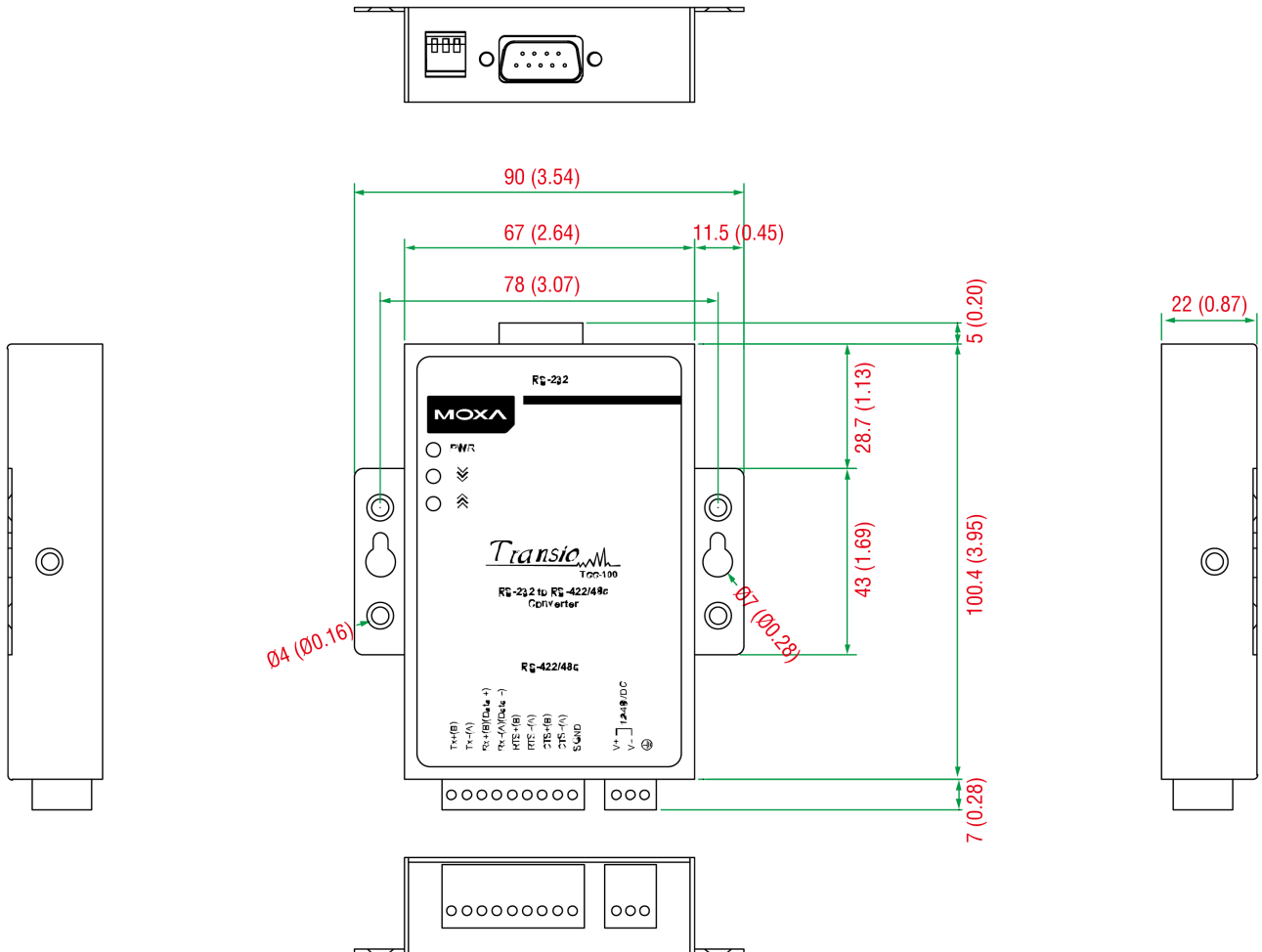
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a>

## Package Contents

Device	1 x TCC-100/100I Series converter
Installation Kit	1 x DIN-rail kit 1 x rubber stand
Cable	1 x terminal block to power jack converter
Documentation	1 x quick installation guide 1 x warranty card

## Dimensions

Unit: mm (inch)



## Ordering Information

Model Name	Isolation	Operating Temp.
TCC-100	-	-20 to 60°C
TCC-100-T	-	-40 to 85°C
TCC-100I	✓	-20 to 60°C
TCC-100I-T	✓	-40 to 85°C

## Accessories (sold separately)

### DIN-Rail Mounting Kits

DK35A

DIN-rail mounting kit, 35 mm

## Power Cords

CBL-PJTB-10

Non-locking barrel plug to bare-wire cable

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