# **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-1001)
- > Wall and DIN-rail mounting
- > Plug-in terminal block for easy RS-422/485 wiring
- > LED indicators for power, Tx, Rx
- > -20 to 60°C operating temperature
- > Wide temperature model available (-40 to 85°C)

The certification logos shown here apply to some or all of the products in this section. For details, see "Regulatory Approvals" under "Specifications" below.















#### : 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 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.

## **Specifications**

#### RS-232 Side

Connector: DB9 female

Signals:

RS-232: TxD, RxD, RTS, CTS, GND

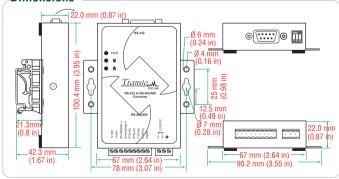
#### RS-422/485 Side

Connector: Terminal Block

Signals:

(interface selected by DIP switch) RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485-4w: TxD+, TxD-, RxD+, RxD-, GND RS-485-2w Signals: Data+, Data-, GND

#### Dimensions



#### **DB9** female connector



PIN	RS-232
1	
2	TxD
3	RxD
4	

PIN	RS-232
5	GND
6	
7	CTS
8	RTS

### **Serial Communication**

Baudrate: 50 bps to 921.6 Kbps

ESD Protection: 15 KV

Optical Isolation Protection: 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)

Operating Humidity: 5 to 95% RH

Storage Temperature: -20 to 85°C (-14 to 176°F)

#### **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

#### **Regulatory Approvals**

CE: Class B FCC: Class B Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

# : Ordering Information

#### **Available Models**

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

TCC-1001: RS-232 to RS-422/485 converter with optical isolation, -20 to 60°C 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

#### **Package Checklist**

- TCC-100/100I series media converter
- DK-35A: DIN-rail mounting kit
- Power jack to 3-pin terminal block adaptor
- Quick Installation Guide (printed)
- Warranty Card