

TCC-120/120I

Industrial RS-422/485 converter/repeater with 2 KV isolation protection



- > 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 ohms)
- > Boost RS-422 or RS-485 signal, or convert RS-422 to RS-485
- > 2 KV isolation protection (TCC-120I)

The certification logos shown here apply to some or all of the products in this section. Please see the **Specifications** section or Moxa's website for details.



12

Media Converters > TCC-120/120I

Introduction

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 mounting, terminal block wiring, and 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.

Specifications

Serial Communication

Connectors: Terminal Block on both ends

Baudrate: 300 bps to 230.4 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)

ESD Protection: 15 KV for all signals

Optical Isolation: 2 KV for power and signal (TCC-120I only)

Physical Characteristics

Case: Aluminum

Weight: 148 ± 5 g

Dimensions: 67 x 100.4 x 22 mm (2.64 x 3.93 x 0.87 in)

Environmental Limits

Operating Temperature: -20 to 60°C (-4 to 140°F)

Operating Humidity: 5 to 95% RH

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

Power Requirements

Source of Input Power: RS-232 port (TxD signal) or power input jack

Input Voltage: 12 to 48 VDC

Power Consumption:

TCC-120: 98 mA @ 12 V, 1.18 W

TCC-120I: 234 mA @ 12 V, 2.81 W

Voltage Reversal Protection: Protects against V+/V- reversal

Over Current Protection: Protects against two signals shorted together

Regulatory Approvals

CE: Class B

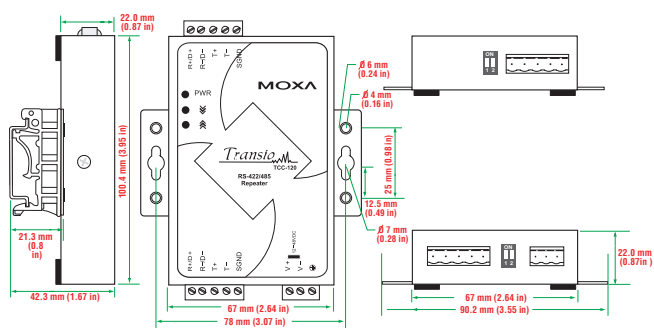
FCC: Class B

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions



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

- TCC-120 or TCC-120I media converter
- DK-35A: DIN-rail mounting kit
- Quick Installation Guide (printed)
- Warranty Card