



Model TCC-120 Series
Media Converter
Isolated RS-485 | 422 Repeater

Overview

TCC-120i is an isolated RS-422/485 repeater designed for users who need an industrial grade interface conversion product to extend RS-422/485 transmission distance. Its superior industrial application design, which includes DIN-Rail mounting, terminal block wiring, external terminal block power, and optical isolation for system protection, makes TCC-120i suitable for use in critical industrial environments.

Features

- Boost serial signal for extending transmission distance
- Wall or DIN-rail mountable
- Terminal block for easy wiring
- Power input from terminal block
- DIP switch enabled built-in terminator (120 Ohms)
- PWR, Tx, Rx LEDs
- Embedded surge protection (16 KV ESD)
- Isolation: 2 KV (TCC-120i)

Specifications

Communications

RS-422/485 Signal	TX+, TX-, RX+, RX-, Data+, Data-
RS-485 Data Direction Control	ADDC™
Baud Rate	50 bps to 230.4 Kbps
Surge Protection	16 KV ESD RMS, for all signals
Isolation	2 KV (TCC-120i), Power/Signal

Environment

Operating Temperature	-20°C to 60°C
Storage Temperature	-20°C to 85°C
Humidity	5 to 95% RH

Power

Input Power Voltage	External power 12-30 VDC, terminal block
Reverse Protection	Yes, V+ and V- reverse protection
Over Current Protection	Yes, protection for 2 signals shorted together
Power Consumption	TCC-120: 3.4 W; TCC-120i: 4.68 W

International Headquarters:

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Mechanical

Dimensions (W x D x H)	67x100x22 mm 90x100x22 mm (including DIN-Rail mounting kit)
Case	Aluminum
Plug-in screw terminal block	#22 - #16 AWG
Color	Black paint
Weight	148±5g

Regulatory Approval

CE, FCC (Class B)

Models:**Description:**

TCC-120.....RS-422/485 Repeater

TCC-120i.....Isolated RS-422/485 Repeater

All models include DIN-Rail mounting kit and manual.

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