

# TCC-120/120I

## Isolated RS-422/485 Repeater

### Features

- Boost serial signal to extend 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
- Surge Protection, 15 KV ESD
- 2 KV Isolation Protection (TCC-120I)



CE FC

### Introduction

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.

### Specifications

#### Communications

**RS-422/485 Signals:** Tx+, Tx-, Rx+, Rx-, Data+, Data-

**RS-485 Data Direction Control:** ADDC™

**Baud Rate:** 50 bps to 921.6 Kbps

**Surge Protection:** 15 KV ESD RMS, for all signals

**Isolation:** 2 KV (TCC-120I), Power/Signal

#### Environmental

**Operating Temperature:** -20 to 60°C

**Storage Temperature:** -20 to 85°C

**Humidity:** 5 to 95% RH

#### Power

**Input Power Voltage:**

External Power, 12 to 48 VDC; Terminal Block Protection for 2 signals shorted together

**Reverse Protection:** V+ and V- reverse protection

**Over Current Protection:**

Protection for 2 signals shorted together

**Power Consumption:** TCC-120: 98 mA @ 12V (1.18 W)

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

#### Mechanical

**Dimensions (W x D x H):** 67 x 100 x 22 mm

90 x 100 x 22 mm (including DIN-Rail Mounting Kit)

**Case:** Aluminum

**Plug-in screw terminal block:** #22-#16 AWG

**Color:** Black

**Weight:** 148±5g

#### Regulatory Approvals

CE, FCC (Class B)

### Ordering Information

**TCC-120:** RS-422/485 Repeater; DIN-Rail Mounting Kit and Manual included

**TCC-120I:** Isolated RS-422/485 Repeater; DIN-Rail Mounting Kit and Manual included