

TCC-100 Series

Isolated Industrial RS-232 to RS-422/485 Converters



Features

- RS-232 to RS-422 conversion with RTS/CTS support
- RS-232 to 2/4-wire RS-485 conversion
- 2 KV isolation protection (TCC-100I)
- 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

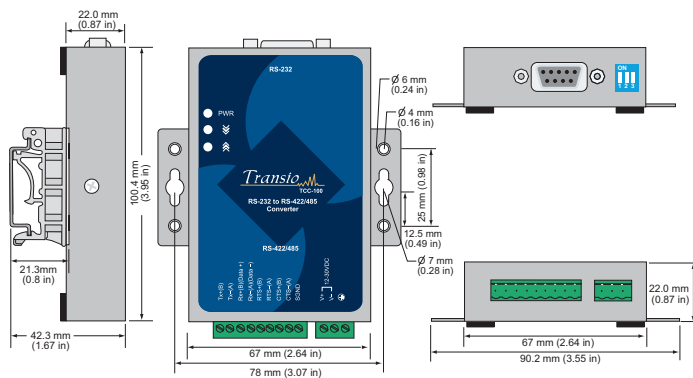


Introduction

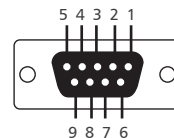
The TCC-100 is an isolated RS-232 to RS-422/485 converter that can be used to extend RS-232 transmission distance and increase networking capability. It has a superior industrial-grade design, with DIN-rail mounting, terminal block wiring, external terminal

block for power, and optical isolation for system protection (TCC-100I). For critical industrial environments, the TCC-100 is an ideal solution for converting RS-232 signals to RS-422/485.

Dimensions (unit = mm)



DB9 (Female) RS-232 Port



| PIN | RS-232 | PIN | RS-232 |
|-----|--------|-----|--------|
| 1 | DCD | 5 | GND |
| 2 | TxD | 6 | DTR |
| 3 | RxD | 7 | CTS |
| 4 | DSR | 8 | RTS |

Specifications

Serial Communication

- Baudrate:** 300 bps to 921.6 Kbps
- Surge Protection:** 15 KV ESD for serial signals
- Serial Isolation:** 2 KV (TCC-100I)
- Power EFT/Surge Protection:** 2KV

Environment

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

Power

Input Power Voltage: 12 to 48 VDC

Reverse Protection: V+ and V- reverse protection

Overcurrent Protection:
Protection for 2 signals shorted together

Power Consumption:
TCC-100: 300 mA @ 12V
TCC-100I: 400 mA @ 12V

Mechanical

- Case:** Aluminum
- Weight:** 148 ± 5 g
- Regulatory Approvals:** CE Class B, FCC Class B
- Warranty:** 5 years

Ordering Information

TCC-100: RS-232 to RS-422/485 converter

TCC-100I: Isolated RS-232 to RS-422/485 converter

Package Checklist

- DIN-rail mounting kit and User's Manual