

CSE485-TD

RS232 to RS485/422 High-speed Isolation Interface Converter



- Support conversion from 1 x RS232 serial port to 1 x RS485/422 serial port
- Support transparent transmission with automatic baud rate detection from 300bps to 460800bps
- Support automatic RS485 data flow direction recognition and 128-node polling
- Support 15kV electrostatic protection and 600W/ms lightning surge protection
- Support 2.5kV optical isolation protection
- Support DC 9~36V power input with reverse polarity protection
- Support -40°C to +85°C wide operating temperature range for industrial applications

Product Description

The CSE485-TD Interface Converter is a high-speed isolated RS232 to RS485/422 converter enabling bidirectional serial data conversion. It automatically detects serial baud rates, offering convenient operation—data transmission remains uninterrupted even if device baud rates change. The CSE485-TD employs I/O circuitry for automatic data flow direction control, eliminating the need for handshake signal jumper settings and ensuring compatibility with existing communication software and interface hardware. It supports hot-swap functionality and exhibits excellent high/low temperature tolerance, maintaining stable operation within the -40°C to +85°C temperature range. The hardware employs low-power, wide-temperature design, making it suitable for indoor/outdoor systems including attendance tracking, access control, PTZ camera control, meal vending, and parking management.

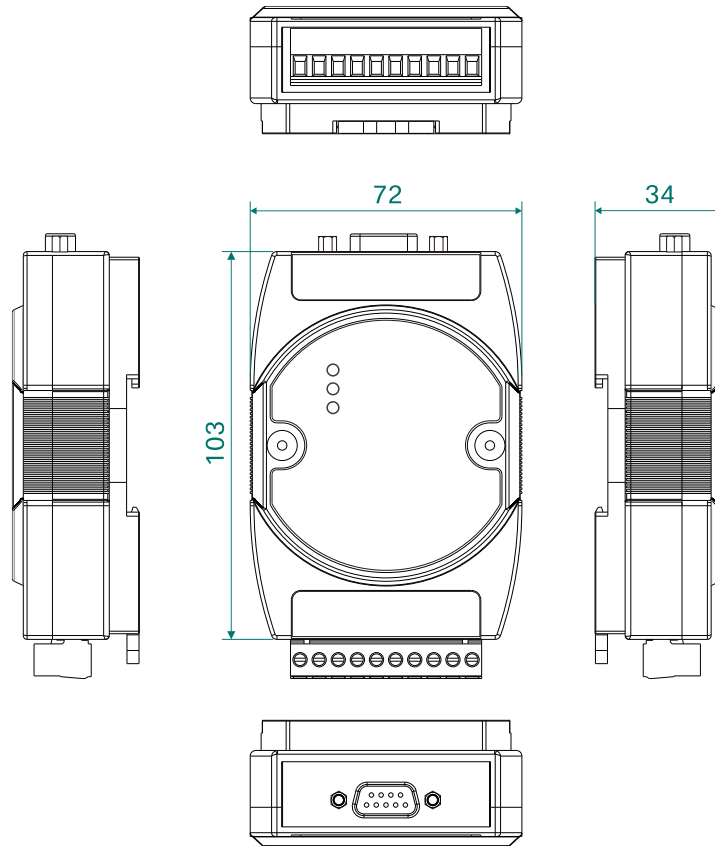
Technical Specifications

Interface	
Serial Port	Standard: Compliant with EIA RS232, RS485 and RS422 standards Number of port: 1 x RS232 to 1 x RS485/422 RS232 signal: TX, RX, GND RS485/422 signal: A+/T+, B-/T-, GND, RX +, RX - Baud rate: 300bps~ 460800 bps Communication distance: RS232: 5m; RS485/422:1.2km(19200bps) Load capacity: RS485/422 support 128 nodes polling Direction control: Automatic data flow direction control Communication Distance: RS232: 5m RS485/422: 1.2km (at 19200bps), shorter distance at higher baud rates Connection method: RS232: DB9F, RS485/422: 10-pin 5.08mm pitch terminal block, serial port occupies 5 pins Port protection: 15kV static protection and 600W/ms lightning protection Optical isolation: 2.5kV
Status LED	Power indicator, serial port transmit/receive direction indicators
Power Supply	
Power Input	DC9~36V
Power Consumption	≤0.4W @ DC24V (Full Load)
Connection	10-pin 5.08mm pitch terminal block, 2 pins reserved for power
Physical Characteristics	
Dimension	102.4×72×34 mm(DIN rail mounting clip and connector excluded)
Installation	Easy installation on 35mm DIN rails
Weight	About 0.13kg
Working Environment	
Operating Temp	-40°C ~+85°C

Storage Temp	-40°C ~+85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Air discharge $\pm 15\text{kV}$ IEC 61000-4-5 (Surge): RS485 common mode $\pm 4\text{kV}$

Dimensions

Unit: mm



Ordering Information

Standard Model	RS232	RS485/422	Power Voltage
CSE485-TD	1	1	DC9~36V



Contact Us

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