

CSE485-TDM

RS232 to RS485/422 Enhanced 3-end Isolation Interface Converter



- Support conversion of 1 × RS232 serial port to 1 × RS485/422 serial port
- Support transparent transmission with automatic baud rate detection from 300bps to 460800bps
- Support RS485 data flow direction auto control, 128 nodes polling
- Support 15kV static protection and 600W/ms lightning protection
- Support RS232, RS485/422 and power 3-end isolation, providing 2.5kV optical isolation protection
- Support DC 9~36V power input with reverse polarity protection
- Support operating temperature from -40°C to +85°C

Product Description

CSE485-TDM is an enhanced 3-end isolation RS232 to RS485/422 interface converter. It can achieve bidirectional data conversion between serial ports, and the converter can automatically detect the baud rate of the serial port and be convenient to use, the data flow will not loss even if the baud rate of the device changes. The CSE485-TDM employs I/O circuitry to automatically control data flow direction, eliminating the need for handshake signal jumper settings. This ensures compatibility with existing communication software and interface hardware. The CSE485-TDM supports hot-swapping under power and exhibits excellent high/low temperature tolerance, operating reliably within -40°C to +85°C environments. Featuring low-power, wide-temperature hardware design, it is widely applicable in indoor/outdoor systems such as attendance tracking, access control, PTZ camera control, meal vending, and parking management.

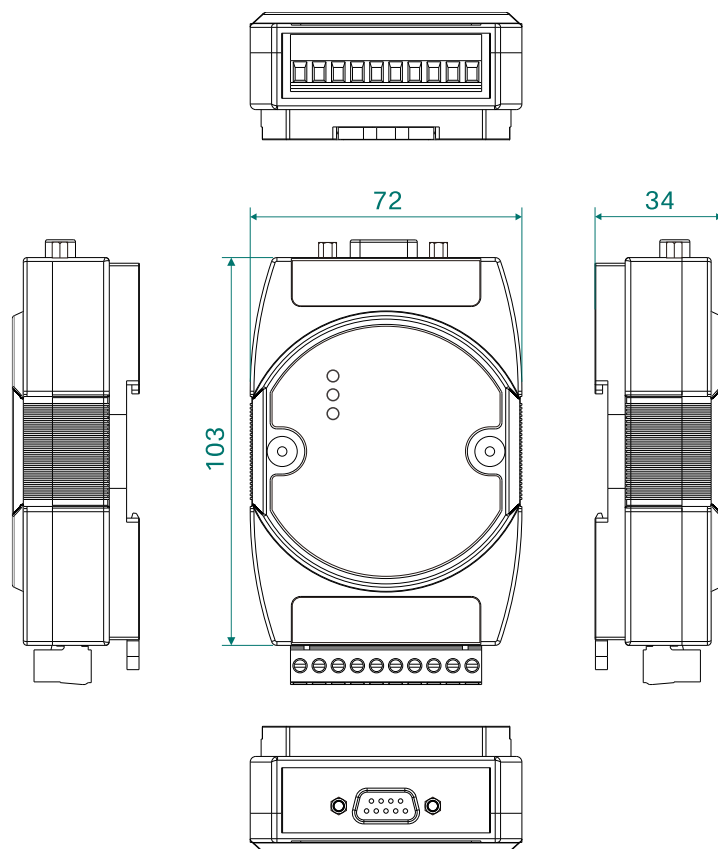
Technical Specifications

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+/TX+, B-/TX-, GND, RX+, RX- Baud rate: 300bps~460800bps Load capacity: RS485/422 support 128 nodes polling Direction control: data flow direction auto control Communication distance: RS232: 5m; RS485/422:1.2km(19200bps) 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	
Power Input	DC 9~36V, supports 2.5kV optical isolation
Working Current	≤0.4W@DC24V
Connection	10-pin 5.08mm pitch terminal block, power occupies 2 pins
Physical Characteristics	
Dimensions	102.4×72×34 mm (DIN rail mounting clip excluded)
Installations	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): RS485/422 Common-mode $\pm 4\text{kV}$

Dimensions

Unit: mm



Ordering Information

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



Contact Us

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