

## USB to Serial Device



## Introduction

TRP-C08E can be stable running in the industrial environment.

It provides USB port protection when it detected unusual currents.

TRP-C08E provides RS422/485 line surge protection.

TRP-C08E can be easy to use, users have no worries about setting the serial data format and RS485 flow control, and how to wire RS422/485, everything is auto-detectable.

## Features

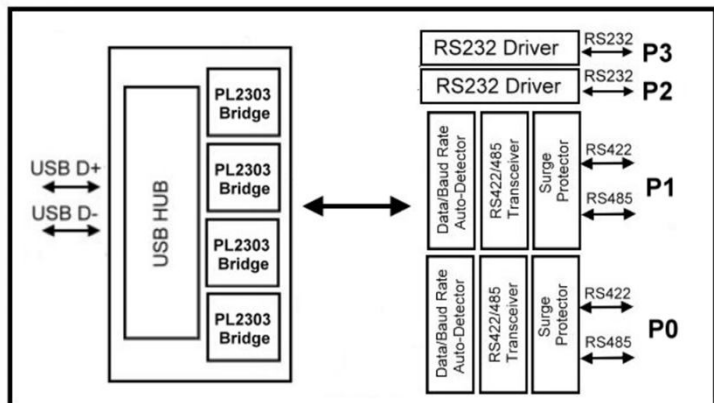
- USB-2.0 device controller.
- Allow user custom adjust baud-rates.
- Each Port can impendent set up the baud-rate and data format.
- On-Chip 512-Byte FIFO for upstream and downstream data transfers for serial Port.
- System gets four serial port when the converter plug in.
- Auto switching RS422/485 detecting.
- Auto direction flow control on RS485.
- Auto baud rate switching from 300bps to 256 Kbps.
- Direct power from USB port , no need external power supply.
- Surge protection on RS422/485 data line.
- Power and TXA/RXA/TXB/RXB communication LED indicator
- Din-Rail (option) or panel mount Driver support:
- Driver Support: Android, Windows 2000/WIN 7/WIN10/WIN11 , and Linux 4.1 and Embedded Linux 5.5.

# TRP-C08E USB to 2 RS232 and 2 RS422/485 Industrial Converter

## Specifications

- Input: USB 2.0 protocol.
- RS232 output: Standard 9 pin DTE full-duplex.
- RS422 output: Differential 4 full-duplex wires (TX+, RX+, TX-, RX-)
- RS485 output: Differential 2 half-duplex wires (D+, D-).
- Data Format: Asynchronous data with all common combination of bits, parity, stop
- Parity type: None, odd, even mark, space.
- Data bit: 5, 6, 7, 8
- Stop bits: 1, 1.5, 2.
- Cable: USB 2.0 type A to type B cable.
- Communication speed: form 300bps to 256Kbps.
- RS-422/485 line protection: Against surge, short circuit, +/- 15KV ESD and voltage peak.
- RS-232 line protection: +/- 15KV ESD.
- Distance: RS-422/485 Up to 4000ft (1250M).
- Connection type: Screw terminal for maximum AWG #12~30 wire.
- DIN rail and panel mount support.
- Two power input: USB power.
- Power consumption: 260mA by USB power.
- Operating environment: 0 to 65°C.
- Storage temperature: -20 to 65°C.
- Dimension: 151mm X 75mm X 26mm.
- Weight: 395g.
- Humidity: 10-90% non-condensing. .

## Block Diagram



## Application Note

