USB to Serial Device



Introduction

The TRP-C08H allows you to simultaneously connect 2 RS-232 and 2 RS-422/485 serial devices to system by using a USB interface. The RS232 interface support all common PC DTE connection type. For RS-422/485 data lines TRP-C08H provides auto-detecting function in data format, baud rate and data direction flow control, it may automatically configure RS-422/485 signals and baud rate without external switch setting. TRP-C08H is equipped with 3000V DC of isolation and internal surge protection to protect the host computer and converter against high voltage spikes, as well as ground potential differences. TRP-C08H features a high-speed 256KB transmission rate, and supports various O.S. The industry standard DIN rail design enables users a fast and professional installation.

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.

■3000 VDC isolation protection on RS422/485.

■Surge protection on RS422/485 data line.

Power and TXA/RXA/TXB/RXB communication LED indicator

Din-Rail (option)or panel mount Driver support:
 Vista64/32,Windows 98/ME/2000/XP/WIN 7/CE3.0, and Linux, and Mac OS

TRP-C08H USB to 2 RS232 and 2 RS422/485 Isolated 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-).

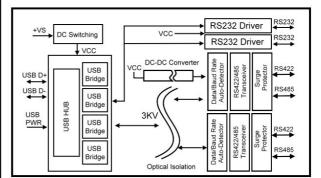
Data Format: Asynchronous data with all common combination of bits, parity, stop

- ■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.
- ■Power consumption: 260mA by USB power.
- ■RS422/485 Optical Isolation: 3000V DC.
- ■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

