

### 1 Introduction

The TRP-C08 converter is an intelligent, stackable expansion module that connects to a PC USB port or USB Hub via the Universal Serial Bus(USB) port, providing one High-Speed RS-232/RS-422 or RS-485 serial port. (jumper less) The TRP-C08 features easy connectivity for traditional serial devices.

The RS-232 standard supports full-duplex communication and handshaking signals (such as RTS, CTS) and The RS-485 control is completely transparent to the user and software written for half-duplex COM works without any modification.

The TRP-C08' s OPTO-isolators provide 3000 Vdc of isolation to protect the host computer from ground loops and destructive voltage spikes on the RS-232/RS-422 and RS-485 data lines.

TRP-C08 also offer internal surge-protection on their data lines. Internal high-speed transient suppressors on each data line protect the modules from dangerous voltages levels or spikes.

The TRP-C08 module derives the power from USB port and doesn' t need any power adapter

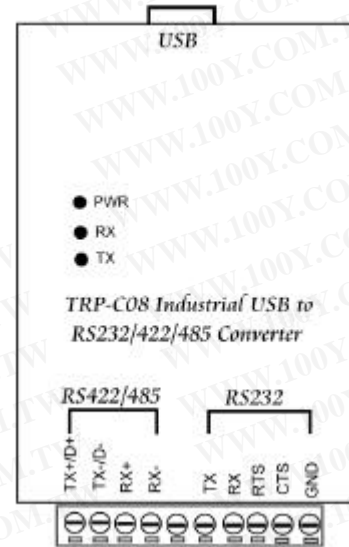
### 2 Features

- USB Specification 1.1 Compliant
- Driver support for Windows 95/98/ME/2000/XP, Linux
- Full-Duplex RS-232/RS-422 support
- RS-232 support RTS & CTS handshake signals
- Minimum 3000 VDC isolation protections
- Auto switching for USB to RS-232/RS-422 or RS-485 (jumper less)
- Auto switching baud rate up to 115.2Kbps
- Transient suppression on RS-485 data lines
- Power and RX/TX flow indicator for troubleshooting
- Power requirement: BY USB Power
- Auto direction flow control on RS-485
- Mounts easily on DIN-rail or panel

### 3 Specifications

- Converted signals: RS-232/RS-422 or RS-485 Auto switching (jumper less)
- USB interface connector: USB type B
- USB Controller: Compatibility USB Specification 1.1 Standard
- Isolation voltage: 3000VDC
- Power requirement: By USB bus power
- Handshake: RS-232 support RTS & CTS handshake signals
- Auto Switching Baud rate (bps): 300~115.2Kbps
- RS-232/RS-422/RS-485 connector: plug-in screw terminal
- Isolation Side: RS-232/422/485
- Power consumption:0. 65W
- Operating temperature:0~70 (32~158 )
- Storage temperature:-25~85 (13~185 )
- Humidity:5~95%, non-condensing
- Transmission and Receiving LED indicator

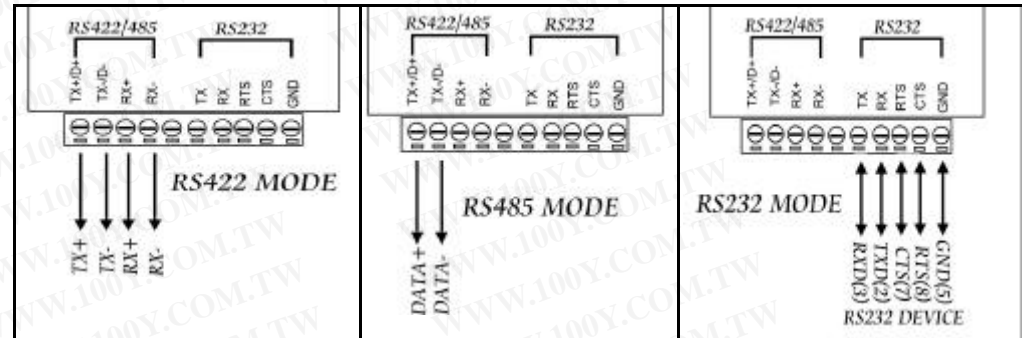
### 4 Pin Assignment



Pin#	Signal Name	Description
1	TX+ /D+	RS-422 or RS-485 Transmission line, Positive
2	TX- /D-	RS-422 or RS-485 Transmission line, Positive
3	RX+	RS422 Transmission line, Positive
4	RX-	RS422 Transmission line, Negative
5	NC.	No Connection
6	TX	RS-232 transmission line
7	RX-	RS-232 receive line
8	RTS	RS-232 Request to send line
9	CTS	RS-232 Clear to send line
10	F.GND	Ground

USB Type B connector		
1	+5V	USB +5VDC bus power
2	Data-	USB Data line, Negative
3	Data+	USB Data line, Positive
4	GND	USB bus power ground

### 5 Communication Wiring



### 6. Test Utility ( Demo.exe for windows)

The software can easy to test TRP-C08 converter working fine or fail . please refer the utility from driver CD, you can looking for the help and demo.exe file.

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**勝特力材料 886-3-5753170**  
**勝特力电子(上海) 86-21-54151736**  
**勝特力电子(深圳) 86-755-83298787**  
[Http://www.100y.com.tw](http://www.100y.com.tw)