

USB 2.0 to TTL/RS232/RS485 multi-function serial cable

Please read the product manual carefully before using the product

I. Overview

With the continuous development of PC industry, various larger peripheral interfaces (such as DB9 serial interface) of old PCs are being gradually eliminated, but many important devices in the industrial environment have to use RS485 interface for data communication, so many users have to use USB to TTL/RS232/485 converter to and TTL/RS232/485 devices between data transfer between PC and TTL/RS232/485 devices This universal USB2.0 to TTL/RS232/485 converter requires no external power

supply and is compatible with USB2.0 and TTL/RS232/485 standards, capable of converting single-ended USB signals to TTL/RS232/485 signals, providing 600W per line surge protection power, as well as surge voltage generated on the line for various reasons and very small The inter-pole capacitance ensures high speed transmission of the TTL/RS232/485 interface, and the TTL/RS232/485 end is connected via a DB9 male $\,$ connector. The converter is internally equipped with zero delay automatic transceiver conversion and unique I/0 circuitry to automatically control the data flow direction. USB to TTL/RS232/485 converter can provide reliable connection for point-to-point and point-to-multipoint communication, RS485 point-to-multipoint can connect up to

256 RS485 devices per converter, TTL/RS485 communication rate 300bps to 3Mbps, RS232 communication number rate 300bps to 115200bps. The products are widely used in industrial automation control system, access control system, time and attendance swipe card system, building automation system, electric power system, data system, acquisition system. **II. Product parameters**

2.RS232 communication rate 300bps to 115200bps 3.RS485 can allow a maximum of 256 RS485 devices to be connected

4. Data bits: 5, 6, 7, 8 5. Check bits: Even, Odd, None, Mark, Space

1.TTL/RS485 communication rate 300bps to 3Mbps

- 6.Stop bit: 1, 1.5, 2
- 7.send and receive buffer: receive $512\ bytes$, $send\ 512\ bytes$
- 8.±10KV, IEC61000-4-2 contact discharge ±10KV, IEC61000-4-2 air gap discharge
- 10. support: WindowsXP/7/8/10, 11, Mac, Linux (Linux kernel 4.0 or more drive-free) 11.Using environment: $-20C\sim80C$, relative humidity is $5\%\sim95\%$

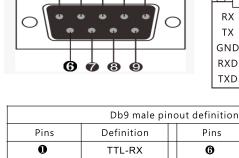
 $9.\ support\ DC5V,\ 3.3V\ power\ output\ (output\ current\ size\ by\ the\ computer\ USB\ output$

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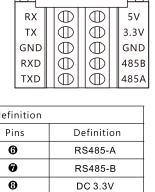
Ⅲ. Pin Definition



RS232-RXD

RS232-TXD

TTL-TX



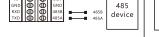
DC 5V

TTL 3.3V Connection schematic

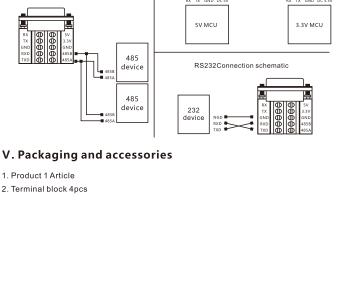
6	GND					
Terminal Pin Definition						
Location	Definition	Location	Definition			
RX	TTL-RX communication interface	5V	DC5V power supply positive output			
TX	TTL-TX communication interface	3.3V	DC3.3V power supply positive output			
GND	Signal/power ground	GND	Signal/power ground			
RXD	RS232-RXD Communication Interface	485B	RS485- communication interface			
TXD	RS232-TXD Communication Interface	485A	RS485+ communication interface			
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IV. product communication connection diagram						

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TTL 5V Connection schematic



RS485 Connection schematic



Product Warranty Card

Customer Information

Model:	
Date of purchased:	
User telephone:	
User address:	
Distributor:	
Agency address:	
User telephone:	Dealer stamp valid

Intenance Records

Repair times	Date	Fault	Treatment measures	Repair work NO.