## USB to RS232/ RS485/RS422 Serial Cable – User manual –



Browser scan code to download the product driver file.

#### I. Product Introduction

As the continuous development of the PC industry, various larger peripheral interfaces of old PCs (such as DB9 serial interface) are gradually being can celled. However, many important devices in the industrial environment need to use RS485 interfaces to realize data communication, so many users want use USB to RS232/485/422 converter to realize the data transmission between PC and RS232/485/422 equipment.

This universal USB2.0 to RS232/485/422 converter requires no external power supply and is compatible with USB2.0 and RS232/485/422 standards. It can convert single-ended USB signals to RS232/485/422 signals, providing 600W surge protection power per line, and the surge voltage generated on the line for various reasons and the extremely small interelectrode capacitance ensure the high-speed transmission of the RS232/485/422 interface. The RS232/485/422 end is connected through the DB9 male connector . The converter is equipped with zero-delay automatic transmission and reception conversion, and the unique I/O circuit automatically controls the direction of data flow.

The USB to RS232/485/422 converter can provide reliable connection for point-to-point and point-to-multipoint communication. Each RS485 point-to-multipoint converter can connect up to 256 RS485 devices, and the RS485/422 communication rate is 300bps up to 3Mbps, RS232 communication rate is 300bps to 115200bps. Products are widely used in industrial automation control systems, access control systems, attendance systems, credit card systems, building automation systems, power systems, and data acquisition systems.

#### II. Product Parameters

- 1. RS485/422 communication rate: 300bps to 3Mbps.
- 2. RS232 communication rate from 300bps to 115200bps.
- 3. RS485 can connect up to 256 RS485 devices. 4. Data bits: 5,6,7,8.
- 5. Check digit: Even, Odd, None, Mark, Space

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**III. Installation Details** 

- 6. Stop bit: 1, 1.5,2.
- 7. Transceiving buffer: receiving 512 bytes, sending 512 bytes. 8.  $\pm$ 8KV, IEC61000-4-2 contact discharge
- $\pm$ 15KV, IEC61000-4-2 air gap discharge
- $\pm$ 15KV, EIA/JEDEC human body model discharge.
- 9. Support DC 5V power output (the output current is determined by the computer USB output). 10. Standard: Comply with USB2.0 standard, RS232/485/422 standard.
- 11. Support: Windows, Mac, Linux (no driver for Linux kernel 4.0 or higher).
- 12. Use environment: -20°C to 80°C, relative humidity is 5% to 95%.

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485A	Γ	$\square$		$\square$	DC5V
485B		$\square$		$\square$	GND
422A		$\square$		$\square$	232TX
422B		$\mathbb{O}$		$\mathbb{O}$	232RX

DB9 Male Pin definition						
PIN	Definition		PIN	Definition		
0	RS485A		5	GND		
2	RS485B		7	RS232-RXD		
3	RS422A		8	RS232-TXD		
4	RS422B		9	DC 5V		
Terminal pin definition						
Position	Definition		Position	Definition		
RS485A	RS485A Communication Interface		DC 5V	Power output		
RS485B	RS485B Communication Interface		GND	Grounded		
RS422A	RS422A Communication Interface		RS232 TX	RS232 sender		
RS422B	B RS422B Communication		RS232 RX	RS232 receiver		

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### IV. Installation Matters



RS232 Connection diagram

232 Device

232TX



Silicon Labs CP210x USB to UART Bridge (COM3) Properties
General Port Settings Driver Details Power Management
Bits per second: 9600    Data bits:
Party: None
Stop bits: 1
Advanced Restore Defaults
OK Cancel
Step 5: click "COM Port Number"
Advanced Settings for COM3
Image: Use FIFO buffers (requires 16550 compatible UART)         OK           Select lower settings to correct connection problems.         Omega
Select higher settings for faster performance.  Defaults
Transmit Buffer: Low (1)
COM Port Number: COM3
<b>000500000</b>
Step 6: Select the port number you want to modify (take port COM2 as an example)
COM7 COM7 COM9
COM10 Advanced Settings for COM12 COM12 COM12 COM12 COM12 COM10 C
COM14 COM15 ☑ Use FFO but COM15 COM17 OK OK
Select lower (COM18 unection problems. Cancel Select higher (COM20 efformance. Define the company) Select higher (COM20 efformance. Define the company)
Peceive Buffer: LCOM23 COM24 COM25
Transmit Buffer: LCOM25 COM27 COM27 COM26 COM29
COM Port Number:
Step 7: After selecting the port "COM2", click "OK"
Advanced Settings for COM3
Use FIFU butters (requires 16550 compatible UART)     OK
Image: Wide HPD buffers (requires 16500 compatible UAR1)     OK       Select lower settings to correct connection problems.     Cancel       Select higher settings for faster performance.     Determine
Image: Wide HPD buffers (requires 16500 compatible UAR1)       OK         Select lower settings to correct connection problems.       Cancel         Select higher settings for faster performance.       Defaults         Receive Buffer: Low (1)       Image: Wide High (14)       (14)
Image: Producting requires itessol compatible (UAR1)       OK         Select lower settings to correct connection problems.       Cancel         Select higher settings for faster performance.       Defaults         Receive Buffer: Low (1)       Image: High (14)       (14)         Transmit Buffer: Low (1)       Image: High (16)       (16)
Ote HV buffers requires 16500 compatible (UAR1)       OK         Select lower settings to correct connection problems.       Cancel         Select higher settings for faster performance.       Defaults         Receive Buffer: Low (1)       High (14)       (14)         Transmit Buffer: Low (1)       High (15)       (16)         COM Port Number       COM2
Other HPD dutes (requires 15500 compatible (UAR1))       OK         Select lower settings to correct connection problems.       Cancel         Select higher settings for faster performance.       High (14) (14)         Receive Buffer: Low (1)       High (15) (16)         Transmit Buffer: Low (1)       High (16) (16)         COM Port Number       COM2
Image: Select lower Hob Duffers (requires 16500 compatible (UAR1))       OK         Select higher settings to correct connection problems.       Cancel         Defaults       High (14) (14)         Transmit Buffer: Low (1)       High (16) (16)         COM Port Number       COM2
Image: Control buffers (requires (r
Image: Comparison of the section of
Image: Construction problems         Select higher settings to correct connection problems.         Select higher settings for faster performance.         Receive Buffer: Low (1)         Transmit Buffer: Low (1)         Update: COM Port Number
Image: Control of the section of the section problems.         Select higher settings to correct connection problems.         Select higher settings for faster performance.         Receive Buffer: Low (1)         Image: Transmit Buffer: Transmit Buffer: Transmi
Image: Select lower requires itessit correct connection problems.         Select higher settings for faster performance.         Receive Baffer: Low (1)         Transmit Baffer: Low (1)         High (16) (16)         COM Port Number         COM Port Number         COM Port Number         Select Select "OK"
Image: Control of the sections of the section problems.         Select higher settings for faster performance.         Receive Buffer: Low (1)         Image: Transmit Buffer: Low (1)         Image: COM Port Number         COM Port Number         COM Port Number         COM Port Number         Common Section Se
Image: Select lower settings to correct connection problems.         Select higher settings for faster performance.         Receive Buffer: Low (1)         Image: Torsmant Buffer: Low (1) <td< td=""></td<>
Step 8: Click "Ok"         Step 8: Click "Ok"
Image: Status
Image: Sect lower House Bifling Contraction problems.         Sect higher settings for faster performance.         Receive Bifling: Low (1)         Transmit Buffer: Low (1)         High (14) (14)         OM Port Number (CM2)
Steer 1. Clock '' OK''         Steer 1. Clock '' OK''
We have noting to correct compatible UAH if
Second User returns to correct correction problem.
We Hold but regards to correct connection problems.         Select lower settings to correct connection problems.         Pecceve Buffer: Low (1)         Travents Buffer: Low (1)         OM Port Number         OMP Port Number
We set No but registing to correct connection problem.         Setect lower settings to correct connection problem.         Provide Biffer: Low (1)         Torumat Biffer: Low (1)         OM Port Number         OLD Port Number         Discretion Port Setting:         Torumat Biffer: Low (1)         Torumat Biffer: Low (1)         High (16) (16) (16)         OM Port Number         Discretion Port Setting:         Torumat Biffer: Low (2)         Discretion Port Number
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# Product Warranty Card

Customer Inforn	nation
Model:	
Date of purchasel:	
User telephone:	
User address:	
Distributor:	
Agency address:	
User telephone:	Dealer stamp valid
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#### Intenance Records

Repair times	Date	Fault	Treatment measures	Repair work NO.

Electronic products are guaranteed for one year, and other products are guaranteed for two years. Damage caused by human factors or product burnout caused by improper operation is not included in the scope of warranty.