USB TO RS485 (B)

From Waveshare Wiki
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Overview

USB TO RS485 (B)



(https://www.waveshare.com/usb-to-rs485-b.htm)

USB TO RS485

Function Description

CH343G is a USB bus adapter chip, which can convert USB to a high-speed asynchronous serial port, supports automatic identification and dynamic self-adaptation of communication baud rate of 115200bps and below, and provides commonly-used MODEM contact signals to expand asynchronous serial ports for computers. It can upgrade a common serial device or MCU directly to a USB bus.

Parameter

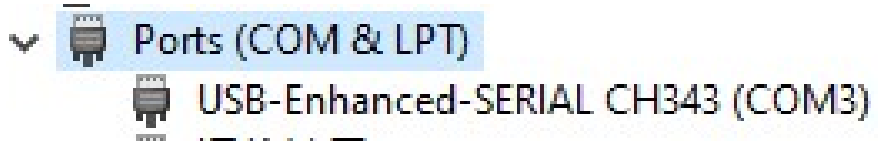
Product Type	USB to 485
Power Supply	5V
Communication Rate	50bps ~ 3Mbps
Operating System	Mac OS, Linux, Windows 11 / 10 / 8.1 / 8 / 7, Android

How to Use

Windows

CDC Driver

The default driver of the computer is the CDC driver, which can be viewed through the device manager.

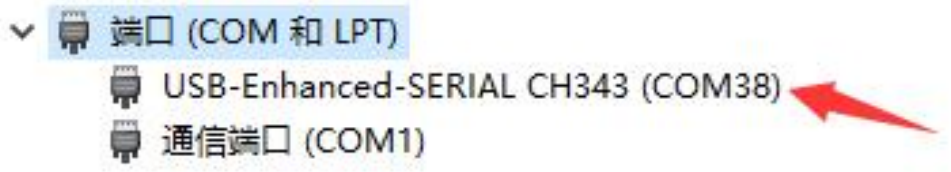


(/wiki/File:USB_TO_RS485_(B)_01.jpg)

The software flow control is set by default. If you need to use CDC hardware flow, you need to connect the CFG of the board to EN (power-on self-test).

VCP Driver

The VCP driver is a manufacturer's driver and needs to be installed by itself. After installation, it can be viewed through Device Manager.



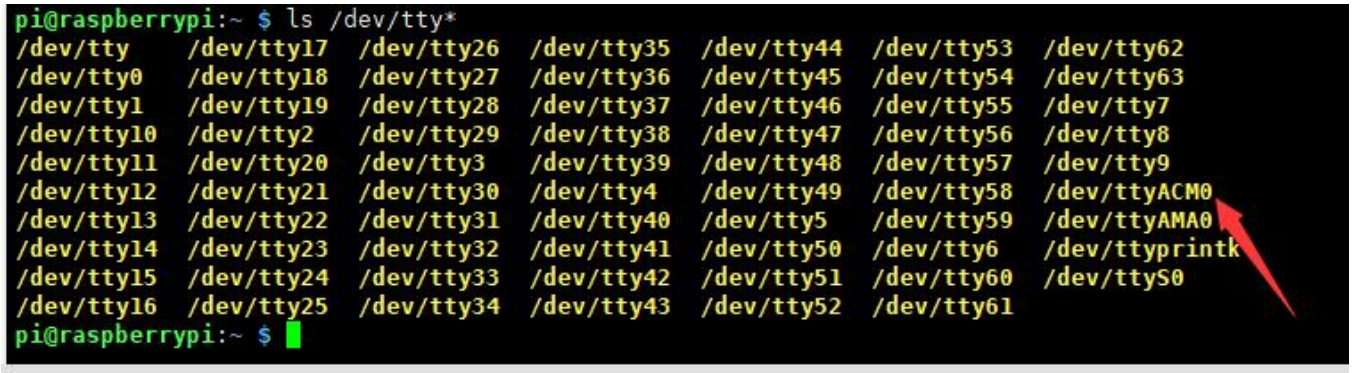
(/wiki/File:USB_TO_RS485_(B)_02.jpg)

The default setting is software flow control. If you need to use VCP hardware flow, you can open it directly through the serial debugging assistant.

Linux/RPI

Taking RPI as an example, you can use the default driver. After connecting the device, you can use the following command to query the serial device name:

```
ls /dev/tty*
```



(/wiki/File:USB_TO_RS485_(B)_03.jpg)

For example: use minicom (https://www.waveshare.com/wiki/Raspberry_Pi_Tutorial_Series:_Serial) to open UART0, then the command line input.

```
minicom -D /dev/ttyACM0
```

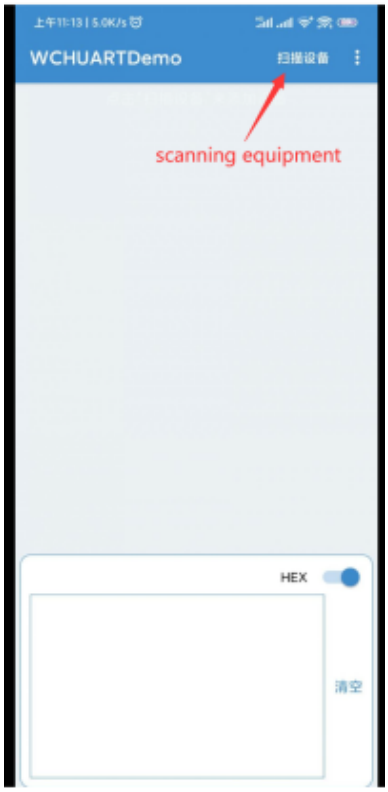
macOS

- Please download and install the driver (https://files.waveshare.com/upload/0/04/CH34XSER_MAC.7z) first.
- Click to learn how to install the driver (https://files.waveshare.com/upload/1/1a/CH34X_DRV_INSTALL_INSTRUCTIONS.pdf).

- After installation, please open the assistant. (The serial debugging assistant can be downloaded directly by Mac.)

Android

- The Android software (https://files.waveshare.com/upload/2/22/WCHUARTDemo_V1.3.7z), download and decompress it and install it.

1. Open the APP and click Scan Device. 2. Click the scanned device. 3. Set the parameters to use. 

(/wiki/File:USB_TO_4CH_TTL_0.png)



(/wiki/File:Scanned1.png)



(/wiki/File:CH343G_Android2.png)

Resource

- CH343 Datasheet (https://files.waveshare.com/upload/a/a3/CH343DS1-en.PDF)
- SSCOM software (https://files.waveshare.com/upload/5/5f/Sscom.7z)
- CH343 VCP driver for Windows (https://files.waveshare.com/upload/f/f1/CH343SER.7z)
- Android APP (https://files.waveshare.com/upload/2/22/WCHUARTDemo_V1.3.7z)

- MAC Driver (https://files.waveshare.com/upload/0/04/CH34XSER_MAC.7z)

FAQ

Question: After installing the driver in the WIN7 environment, it shows that the digital signature of this device cannot be verified, how to solve it?

Answer:

This is a Microsoft bug, click to download the driver (https://files.waveshare.com/upload/e/ef/Windows6.1-KB3033929-x64.zip) repair tool and install it.

Question: Does it support 250K baudrate?

Answer:

USB TO RS485 (B) baudrate support: 50, 75, 100, 110, 134.5, 150, 300, 600, 900, 1200, 1800, 2400, 3600, 4800, 9600, 14400, 19200, 28800, 33600, 38400, 56000, 57600, 76800, 115200, 128000, 153600, 230400, 256000, 307200, 460800, 921600, 1M, 1.5M, 2M, and 3M.

Support

Technical Support

If you need technical support or have any feedback/review, please click the **Submit Now** button to submit a ticket, Our support team will check and reply to you within 1 to 2 working days. Please be patient as we make every effort to help you to resolve the issue.
Working Time: 9 AM - 6 PM GMT+8 (Monday to Friday)

Submit Now (https://service.waveshare.com/)

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