USB TO TTL (B)

USB TO UART solution with USB Type A connector

Introduction

Industrial USB TO TTL Converter, Original CH343G Onboard, Multi-Protection & Systems Support

Features

- Onboard resettable fuse and TVS diode, providing protections including over-current, over-voltage, backward-proof, and ESD protection, improving shock resistance, safe and stable communications

- Onboard IO protection circuit for surge suppress

- Onboard TTL serial port 3.3V and 5V voltage level switch, allows selecting TTL level

- 3x LED indicators for easily checking power connection and signal TX/RX statuses

- Quality plastic case with a dull-polish surface, well-crafted

- IDC connector with fool-proof design

Specifications

- Product category: Industrial USB TO TTL converter

- Host interface: USB

- Device interface: UART

- Communication range: 50bps ~ 6Mbps

- USB Device Interface:

  o connector: USB Type-A;

  o protection: resettable Fuse, ESD protection

- UART interface:

  o connector: 6pin right-angle pinheader;

  o protection: IO protection diode

- Indicator:

  o PWR: power indicator, turns red when USB voltage is detected

  o TXD: TX indicator, turns red while the USB port is sending data

  o RXD: RX indicator, turns red while the device port is receiving data

Pinouts
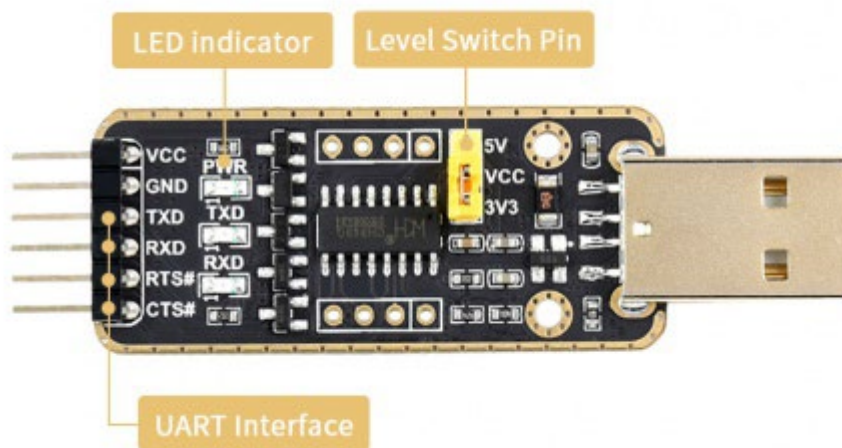
PIN	Description
VCC	5V or 3.3V output for external device (configured by jumper)
GND	Power gound
TXD	Connects to MCU.RXD
RXD	Connects to MCU.TXD
RTS#	Connects to MCU.CTS
CTS#	Connects to MCU.RTS

About CH343

CH343 is a USB bus adapter chip, that realizes USB to a high-speed asynchronous serial port, and supports up to 115200bps communication Automatic identification and dynamic self-adaptation of baud rate, providing common MODEM contact signals

for expanding asynchronous serial ports of computers, or feature USB bus for the common serial device or MCU.

How to use

Windows

For most of the PC, the driver for CH343 is CDC by default, if you need to use a VCP driver, please download the driver and install it manually.
The CH343 USB UART board use software flow control by default, if you want to use hardware flow control, connect CFG to EN for CDC mode, set in SSCOM software for VCP mode.

Linxu/Raspberry Pi

To work with Raspberry Pi, it is driver-free, just connect and check with the following command:

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

The port should be named as ttyACM0, user can use the minicom tool to test.

```
sudo apt-get install minicom -y
minicom -D /dev/ttyACM0
```

MacOS

To use with MacOS, please download the driver and follow the guide

- CH343 driver for MacOS

- MacOS guide

Android

To use with Android device, please donwnload the APP and test.

- UART APP in Android

Resources

- CH343 Datasheet

- SSCOM software

- CH343 VCP driver for Windows

- CH343 driver for MacOS

- [MacOS guide](#)
- [UART APP in Android](#)

FAQ

Beware of knock-offs

Please note that we've found some poor copies of this item in the market. They are usually made of inferior materials and shipped without any testing.

You might be wondering if the one you're watching or you've purchased in other non-official stores is original, feel free to contact us.

Support

If you require technical support, please go to the [Support](#) page and open a ticket.