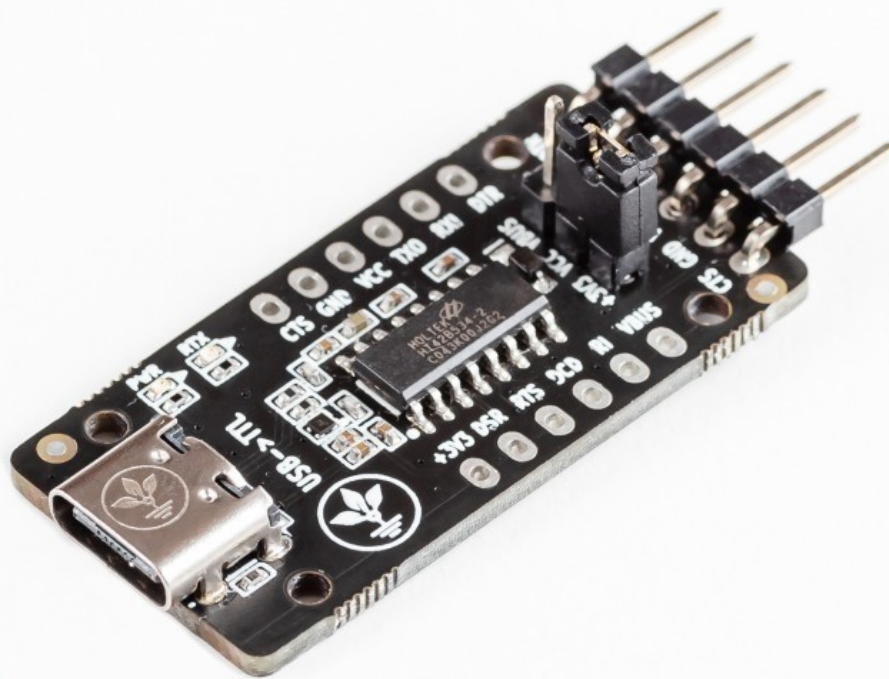


Groundstudio USB to serial HT42B534 module



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Module Circuit Schematic

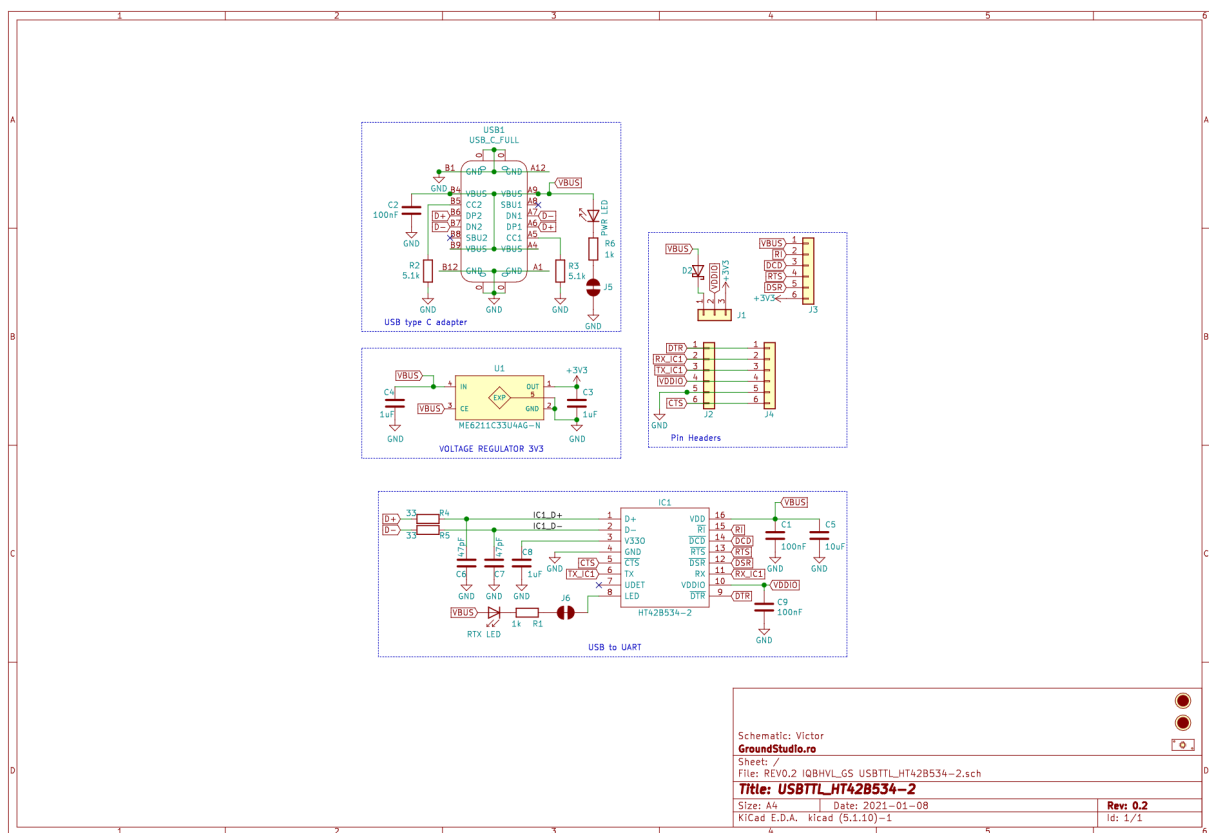


Figure 2: GroundStudio USB to serial HT42B534 module schematic circuit [Revision 0.0.2]

Open Source

This is an Open Source project, you can find all the technical documents online:

https://github.com/GroundStudio/GroundStudio_USB_to_serial_HT42B534_module

License

All documentation for GroundStudio Marble Pico is released under the [Attribution-ShareAlike 4.0 International \(CC BY-SA 4.0\)](#) license. You are welcome to use this for commercial purposes.

Please consider contributing back to this project or others to help the open-source hardware community continue to thrive and grow!

Overview

The USB to Serial converter module is based on the HT42B534-2 integrated circuit. Most of the time, the module is used to connect a microcontroller or a development board to the computer (Pro Mini, ESP8266, ESP32, etc.)

The module can also be used to emulate another device (e.g. a keyboard) using the program and documentation available at the following link:

<https://www.holtek.com/productdetail/-/vg/HT42B534-2>

The product converts signals from the USB protocol to the Serial protocol and vice versa. It can work both on the logical level of 3.3V and on that of 5V (the voltage is selectable by jumper).

The presence of the supply voltage is indicated by the "PWR" led and the presence of the signal on the Rx and Tx serial communication lines is indicated by the "RTX" led.

For minimizing power consumption the two LEDs can be disconnected individually using the RTX and PWR DISABLE LEDs jumpers located on the back of the pcb.

Technical specifications

Supply voltage: **3.3V or 5V**

- For the voltage of 5V, the current will be supplied directly by the USB port to which it is connected (maximum 500mA)
- For voltage of 3V3 current will be provided by the stabilizer on the module (maximum 500mA)

Dimensions approx: **39.2mm x 19mm**

4x M2 screw mounting holes [27mm x 14.76mm]

* It does not require the installation of an additional driver on any up-to-date operating system (unlike other modules on the market (CH340, FTDI, etc)).

Legal disclaimer notice

This development board is considered a subassembly in accordance with FCC CFR Title 47 §15.101(e):

[https://www.ecfr.gov/current/title-47/chapter-I/subchapter-A/part-15/subpart-B/section-15.101#p-15.101\(e\)](https://www.ecfr.gov/current/title-47/chapter-I/subchapter-A/part-15/subpart-B/section-15.101#p-15.101(e))

The device does not have a standalone functionality and does not include an enclosure or power supply.

The device is mainly intended for development and prototyping but it can be integrated into a product. In this case it is the responsibility of the developer/manufacturer to obtain all the necessary certifications.

GroundStudio is a registered trademark of ARDUSHOP SRL:

<https://www.tmdn.org/tmview/#/tmview/detail/EM500000018364087>

Developer info

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Datasheet Revision History

[Revision 1] - Initial version release