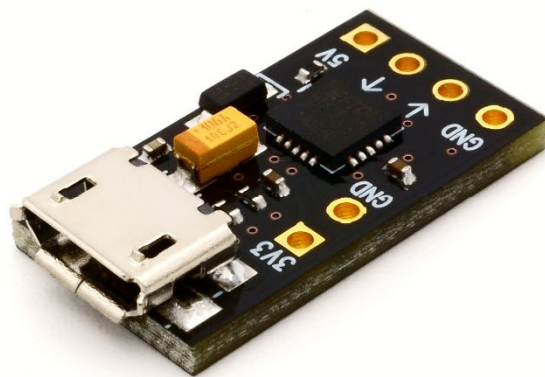


NS-USB2UART03

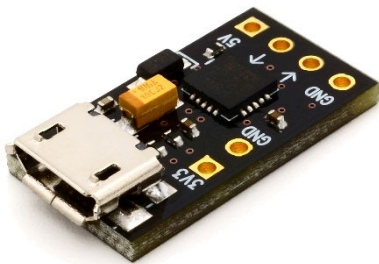
User Manual v2.0



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1. NS-USB2UART03 Features

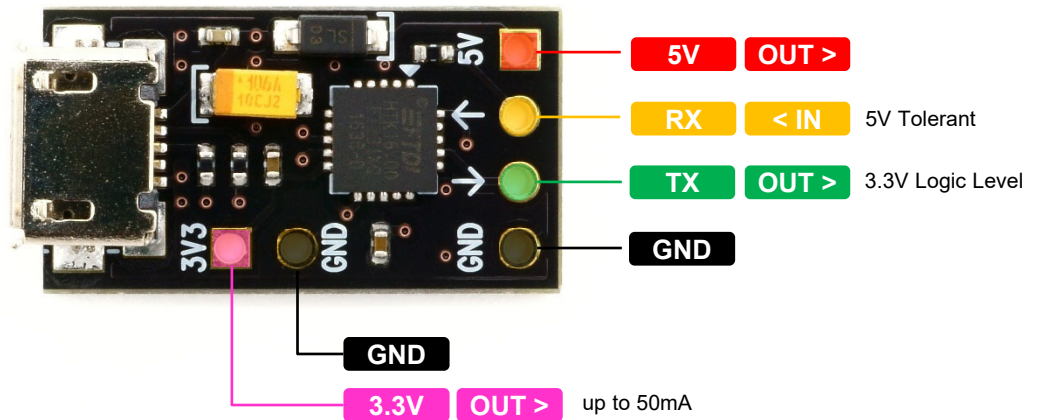
- Ultra compact board size.
- Easy to install due to small size design.
- USB to UART Communication Module.
- USB 2.0 Full Speed capable.
- Equipped with a diode to protect the power supply.
- micro USB (B type) connector mount.
- FT231X chip used.
- Data transfer rates from 300 baud to 3 Mbaud.
- UART signal level 3.3V / 5V(Tolerant) both available (Board's I/O level is 3.3V).
- 5V / 3.3V power supply (output) available.



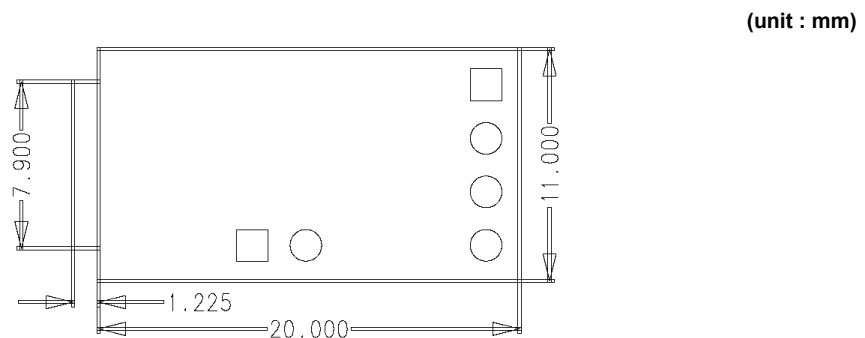
<NS-USB2UART03>

| | |
|----------------|------------------|
| Part Number | NS-USB2UART03 |
| USB Controller | FT231X |
| Connector | micro USB B type |
| Pin out | 1x4, 1x2 |
| Pin Pitch | 2.54mm |

2. Pin Configurations



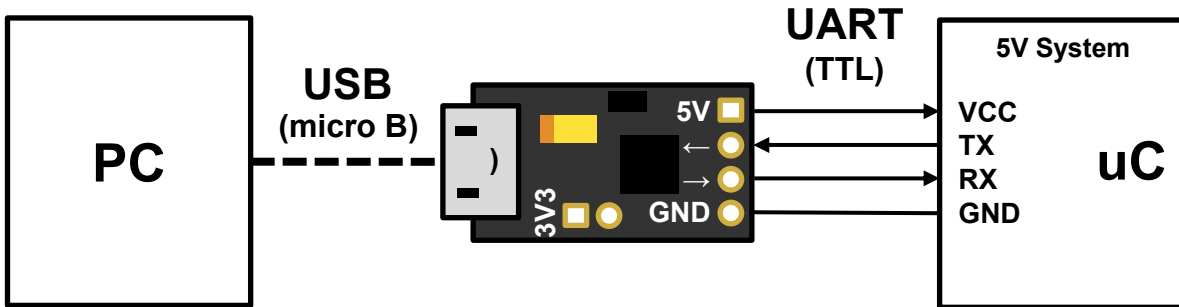
3. Dimensions



4. Application

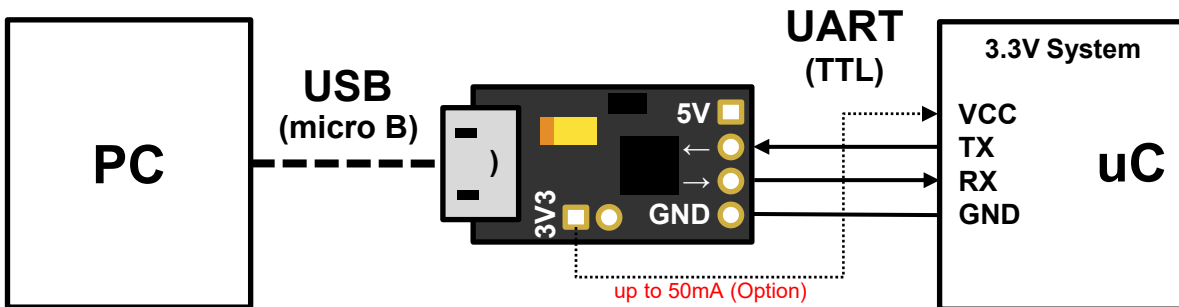
* 5V system connected example.

※ notice : If uC system is 3.3V operation, then you must be not connected 5V to VCC



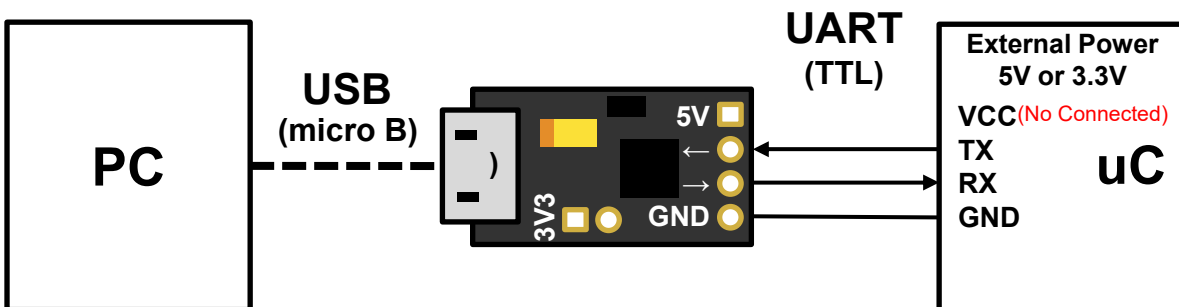
* 3.3V system connected example.

※ notice : The 3.3V current can only be supplied up to 50mA. (Recommend external power source)



* External power system connected example.

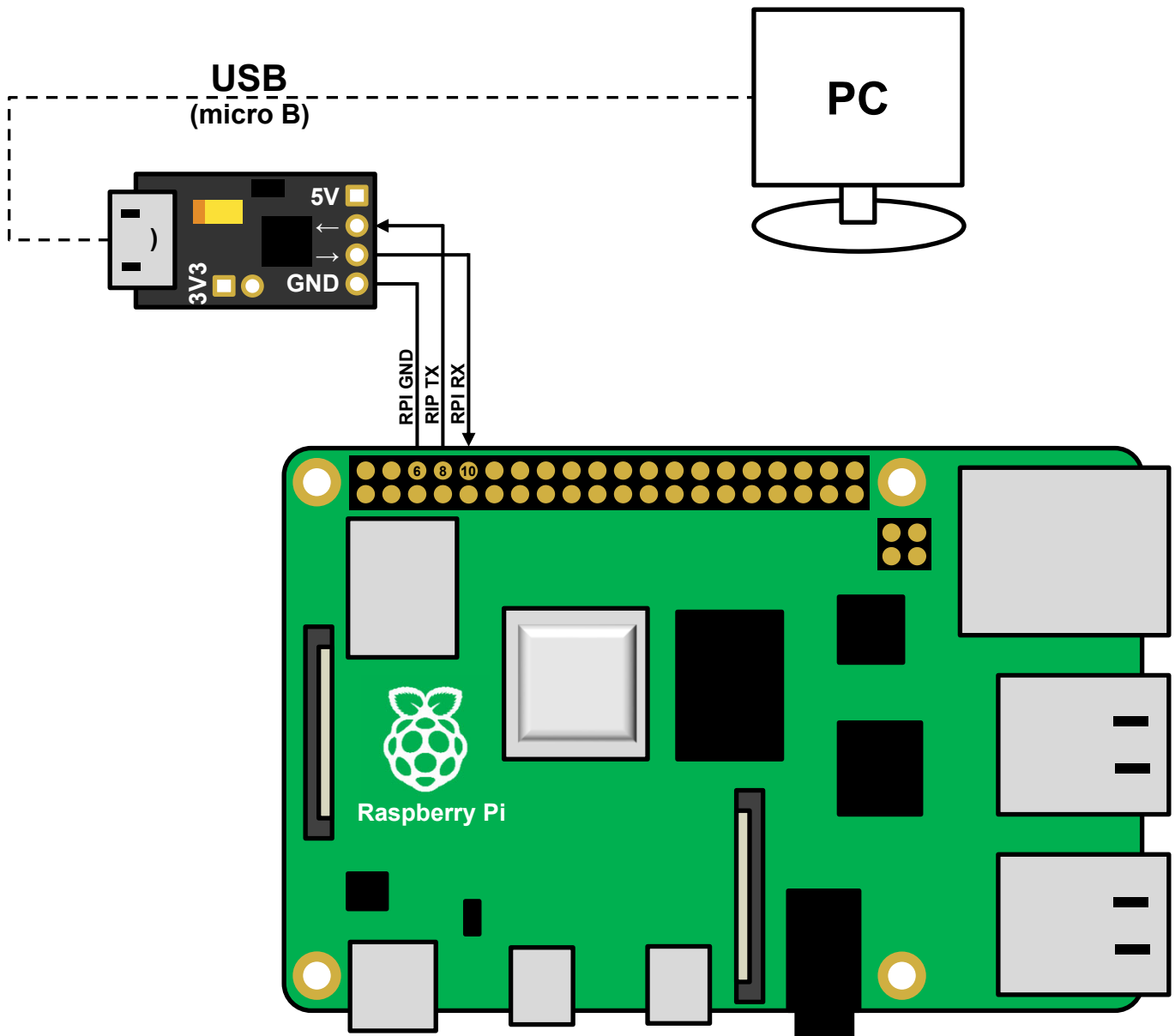
※ notice : Do not connect VCC when using an external power source.



4. Application

* Raspberry Pi Connected Example

※ notice : Do not power Raspberry Pi through the NS-USB2UART03.



5. NS-USB2UART03 Driver Setup

The driver is usually installed automatically. (Windows10)
 In some cases, the driver can be downloaded from the chip manufacturer.
www.ftdichip.com

Please refer to the document below for information on driver installation.

FTDI Driver Install Guide (AN_396)

https://www.ftdichip.com/Support/Documents/InstallGuides/AN_396%20FTDI%20Drivers%20Installation%20Guide%20for%20Windows%2010.pdf