

## Isolated USB to TTL UART Converter



**ISO-UART-078C Board**

- Isolated connection for safety
  - Isolation IC used is rated at 5000 V<sub>rms</sub>
- Works from 1.8V to 5V – no jumpers or solder bridges required.
- Visible indication:
  - Red LED for Transmit (TX)
  - Green LED for Receive (RX)
- Up to 921600 baud
- Reverse polarity protection
- ESD protection
- No special USB drivers needed as automatically configures as COM port
- Micro B connector to USB Host
- 4-pin 0.1" (2.54mm) connector allows flexible attachment to Target Board
- Dimensions: 6.0 x 2.2 x 0.9 cm (2.36 x 0.86 x 0.35 in)
- Comes with 4-pin right angle header preinstalled and fitted into a plastic case
- Order includes USB cable and 4-pin to 4-pin female cable



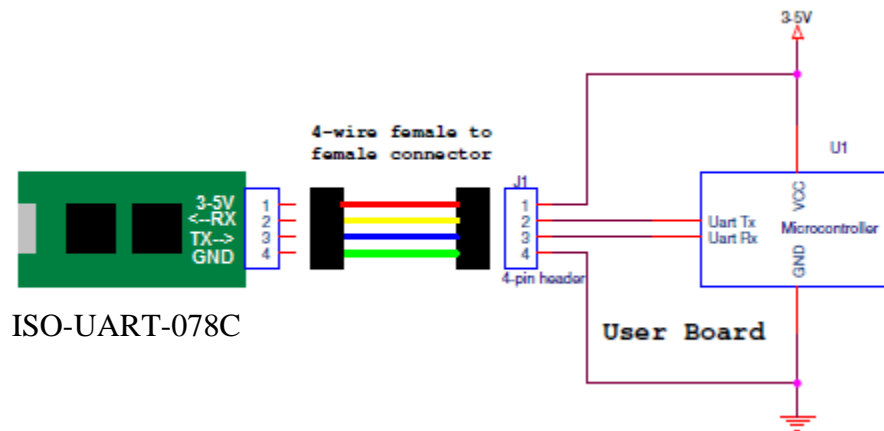
**ISO-UART-078C with USB and Wire Connections**

## Target board UART Connection

If you have a UART on your board, it can be used for debug and testing without any additional cost. You only need to place a layout for a 4-pin 0.1" (2.54mm) connector.

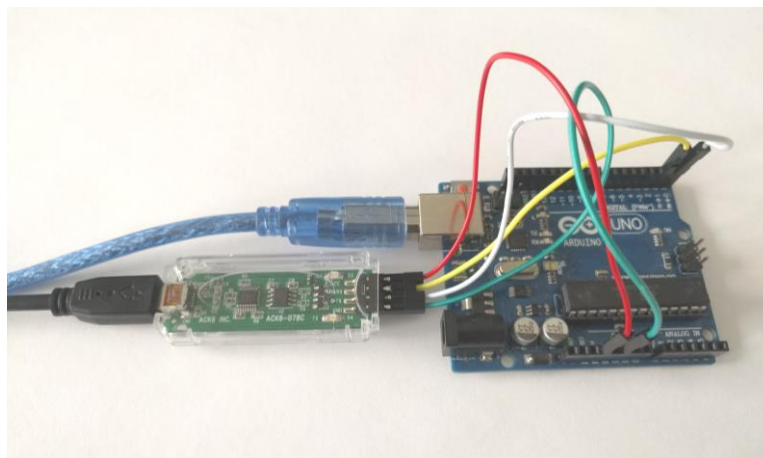
### New Custom PCB for a User Board

For a straight pin-to-pin connection between the UART and the ISO-UART-078C, the layout on the PCB for the 4-pin header is as depicted below:



### Pre-Existing Board (Arduino, Raspberry Pi, etc.)

- Header pins in various locations
  - Use female to female/male (depending on pinout on pre-existing board) jumper wires to individually connect the designated pins between the ISO-UART-078C and the pins on your board.



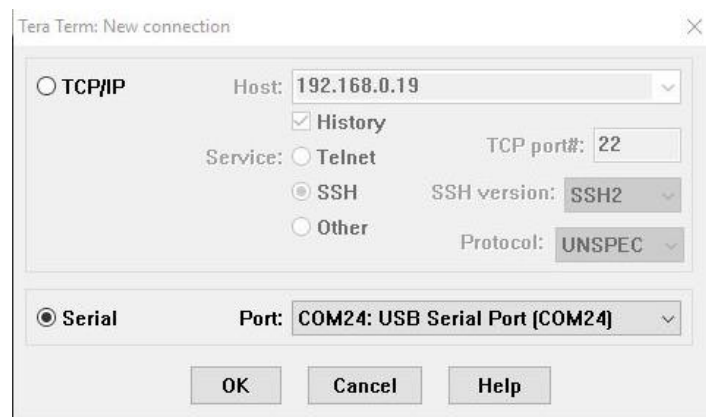
ISO-UART Connection to Arduino (Vcc – 3.3V || Gnd – Gnd || Tx -> Rx|| Rx -> Tx)

## Driver Installation

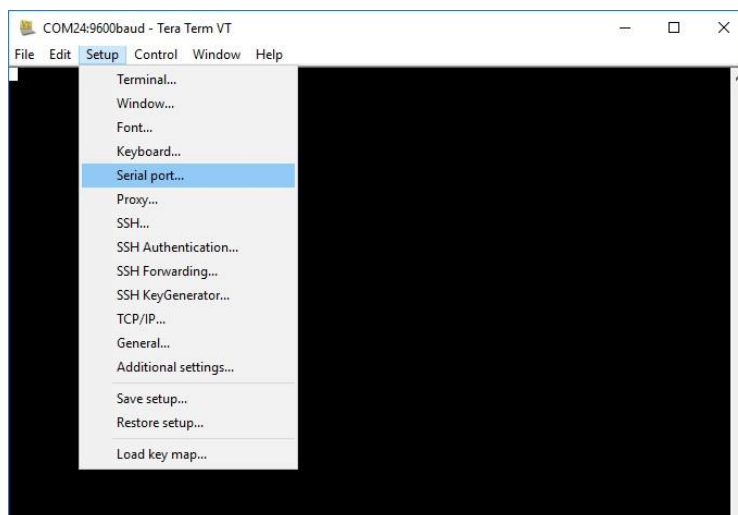
- When device is plugged in, it should automatically find and install the driver
- If you need to manually install the driver:
  - Click on the <http://www.ftdichip.com/Drivers/VCP.htm>
  - At the bottom of the page there is a chart containing the driver information
  - Follow the instructions on the page to install the driver
    - Note: Windows users may find it easier to use the *setup executable* found in the comments of the Windows section.

## Tera Term Setup Example

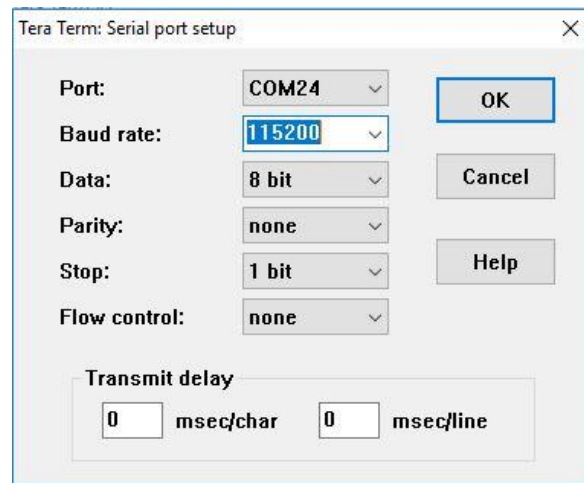
1. Open Tera Term
2. Set-up Serial Port Connection -
  - a. ISO-UART will be listed as a COM port



3. Select “Serial port” from the Setup Menu



4. Select the desired Baud Rate
  - a. Data – 8 bit
  - b. Parity – none
  - c. Stop – 1 bit



5. Device is now connected and can be used for Serial Communication