

EXPLIoT NANO

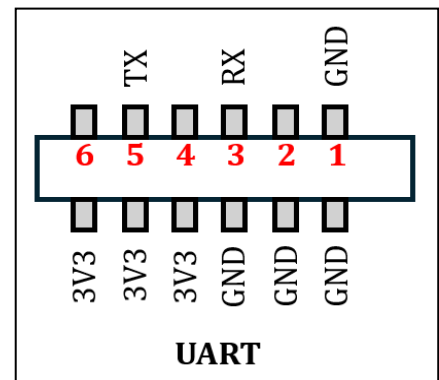
Getting Started Guide



Protocols

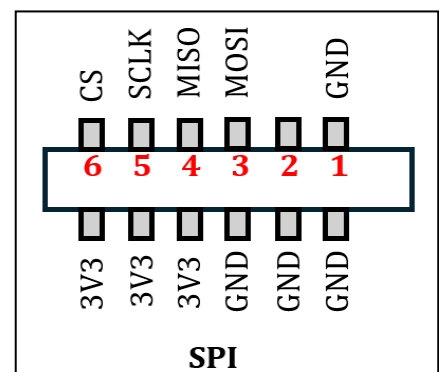
1. UART: (Universal Asynchronous Receiver-Transmitter)

- Connecting the ground (GND) of the target device to a GND pin on the EXPLIoT Nano is a common practice in UART communication. This ensures that there is a common reference point between the device and Nano, allowing for proper signal transmission and reception.
- Connect the **Rx** pin of the target device to the **Tx** pin (Pin 5) of the EXPLIoT Nano, and the **Tx** pin of the target device to the **Rx** pin (Pin 3) of the EXPLIoT Nano.
- Open any serial terminal (e.g.: minicom, Putty, Screen), set the correct COM port and Baud rate.
- If you don't see readable characters try to change the baud rate or scan for correct baud rate using EXPLIoT framework's *uart.generic.baudscan* plugin.
(Source code: https://gitlab.com/explot_framework/explot).



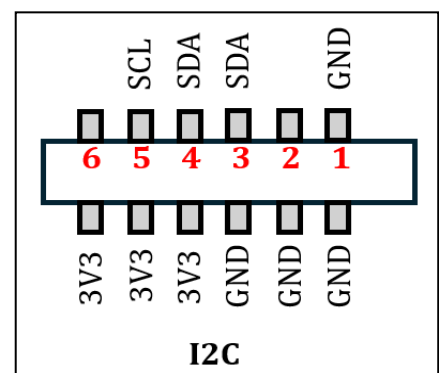
2. SPI: (Serial Peripheral Interface)

- Connect the MOSI, MISO, SCLK (Clock), and CS (Chip Select) of the target to Pin 3, 4, 5 and 6 respectively of the EXPLIoT Nano.
- Connect the ground of target to any GND pin on the EXPLIoT Nano.
- You may want to play around with spi read and write plugins of EXPLIoT framework.



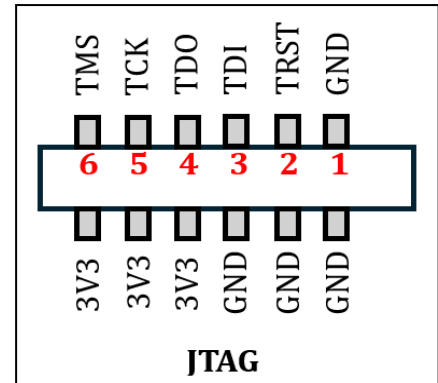
3. I2C: (Inter-Integrated Circuit)

- Connect the SDA pin of the target to EXPLIoT Nano pin no. 3 and 4 (You can use a breadboard to connect target SDA pin with Nano pin 3 and 4).
- SCL pin of the target to pin no. 5 of EXPLIoT Nano.
- Connect the ground of target to any GND pin of the EXPLIoT Nano.
- You may want to play around with i2c read and write plugins in EXPLIoT framework.



4. JTAG: (Joint Test Action Group)

- Connect the TDI, TCK, TDO, TMS pins of the target to Pin 3, 5, 4 and 6 respectively to the EXPLIoT Nano.
- Connect the ground of target to any GND pin of the EXPLIoT Nano.



5. SWD: (Serial Wire Debug)

- Connect the SDIO pin of the target to EXPLIoT Nano pin no. 3 and 4. (You can use a breadboard to connect target SDIO pin with Nano pin 3 and 4).
- CLK pin of the target to Pin no 5 of the EXPLIoT Nano.
- Connect the ground on the target to any GND on the EXPLIoT Nano.

