

1 Flash STM32F103C8 using USB2UART

- 1.0.1. Make connections as shown in Table 1.0.1.1 and modify the circuit accordingly

| STM32F103C8 PINS | USB2UART PINS |
|------------------|---------------|
| 3.3 | 3.3 |
| GND | GND |
| A9(TXD) | RXD |
| A10(RXD) | TXD |

Table 1.0.1.1

- 1.0.2. Create a src folder and inside src folder, create a source code in c/c++ which should be flashed into stm32f103c8 (for example: blink.c).
- 1.0.3. Create a platformio.ini file by adding the lines

```
[env:bluepill_f103c8]
platform = ststm32
board = bluepill_f103c8
framework = stm32cube
upload_protocol=serial
upload_port=/dev/ttyUSB0
upload_speed=115200
```

- 1.0.4. Before flashing into stm32f103c8, make sure that stm32f103c8 is in bootloader mode.
- 1.0.5. After executing

```
pio run -t upload
```

- 1.0.6. After flashing, the inbuilt LED present on the stm32f103c8 will start blinking.
- 1.0.7. Remember to remove from the bootloader mode and want to run your application code from the main flash memory again.