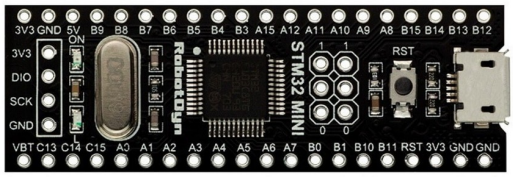


RobotDyn STM32F303CCT6 Black Pill Development Board Instructions

RobotDyn Black Pill STM32F303CCT6
Arduino IDE v2 Setup

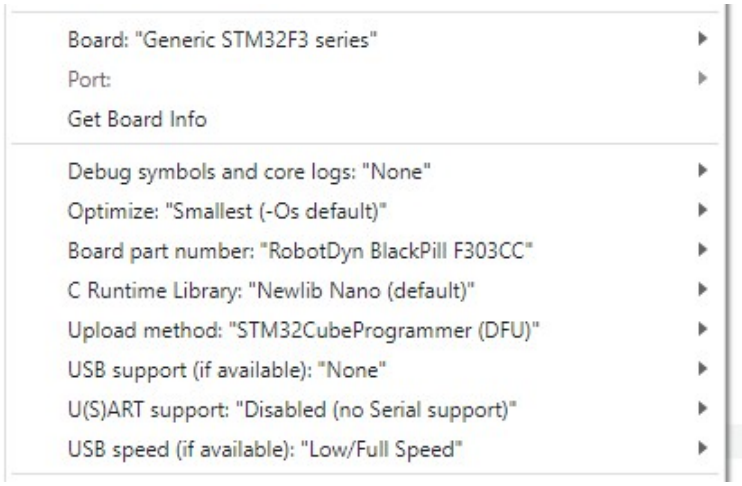
Contents

STM32F303CCT6 Black Pill Development Board

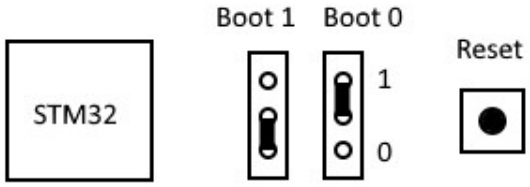
Note: I use the traditional term “program”. “Sketch” sounds like something for children and idiots (IMO).

- Download and install the Arduino IDE v2.xx:
  - https://www.arduino.cc/en/software
- Download and install STM32CubeProgrammer:
  - https://www.st.com/en/development-tools/stm32cubeprog.html
- Run the Arduino IDE and add the following in File – Preferences – Additional boards manager URLs
  https://github.com/stm32duino/BoardManagerFiles/raw/main/package_stmicroelectronics_index.json
  Lots of updates and libraries will be downloaded.
- Under Tools
  - – Board, select “Generic STM32F3 series” .
  - – Board part number, select “RobotDyn BlackPill F303CC”. ·

- – Upload method, select “STM32CubeProgrammer (DFU).



- Plug in the USB cable. The board should show in Device Manager, under USB Devices as “STM32 BOOTLOADER”.
- To upload your program to the board from the Arduino IDE, set the Boot jumpers as shown to use DFU bootloader mode.



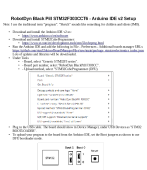
- Upload your program as usual. After writing the Flash with your program, you should see the following (I know the button is labeled “upload”, but the text says “download”. I didn’t write it.):

```
File download complete
Time elapsed during download operation: 00:00:00.420

RUNNING Program ...
  Address:      : 0x8000000
Start operation achieved successfully
```

- Your program is now running on the board. To upload your program to the board again, while still in the IDE, press the RESET button first, before uploading.
- To make the board run your program from Flash on power up, change the Boot 0 jumper to low (0). The Boot 1 jumper doesn’t matter.

Documents / Resources

	RobotDyn STM32F303CCT6 Black Pill Development Board [pdf] Instructions STM32F303CCT6 Black Pill Development Board, STM32F303CCT6, Black Pill Development Board, Pill Development Board, Development Board, Board

References

- github.com/stm32duino/BoardManagerFiles/raw/main/package_stmicroelectronics_index.json
- Software | Arduino
- User Manual