Groundstudio BME280 3V3 module
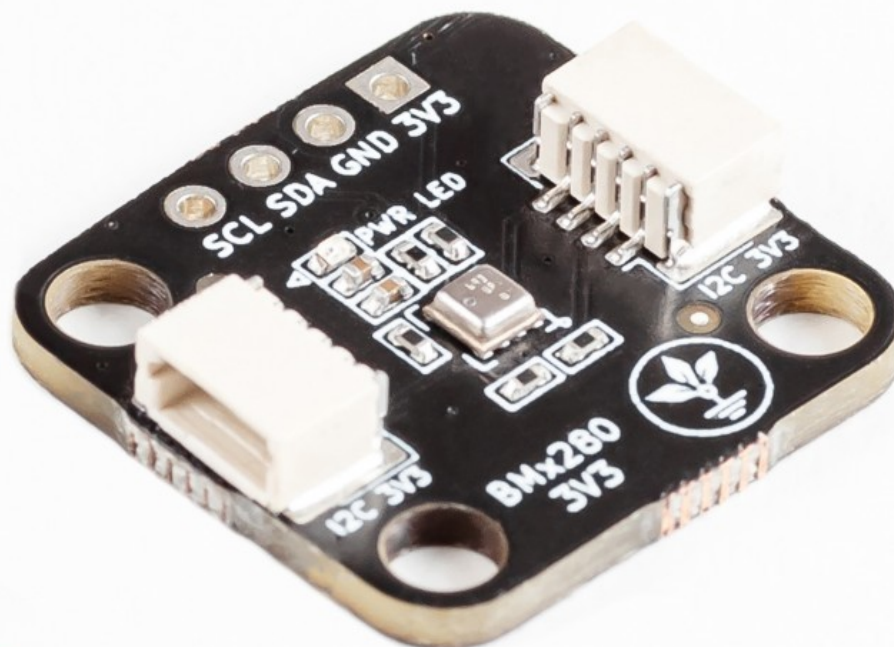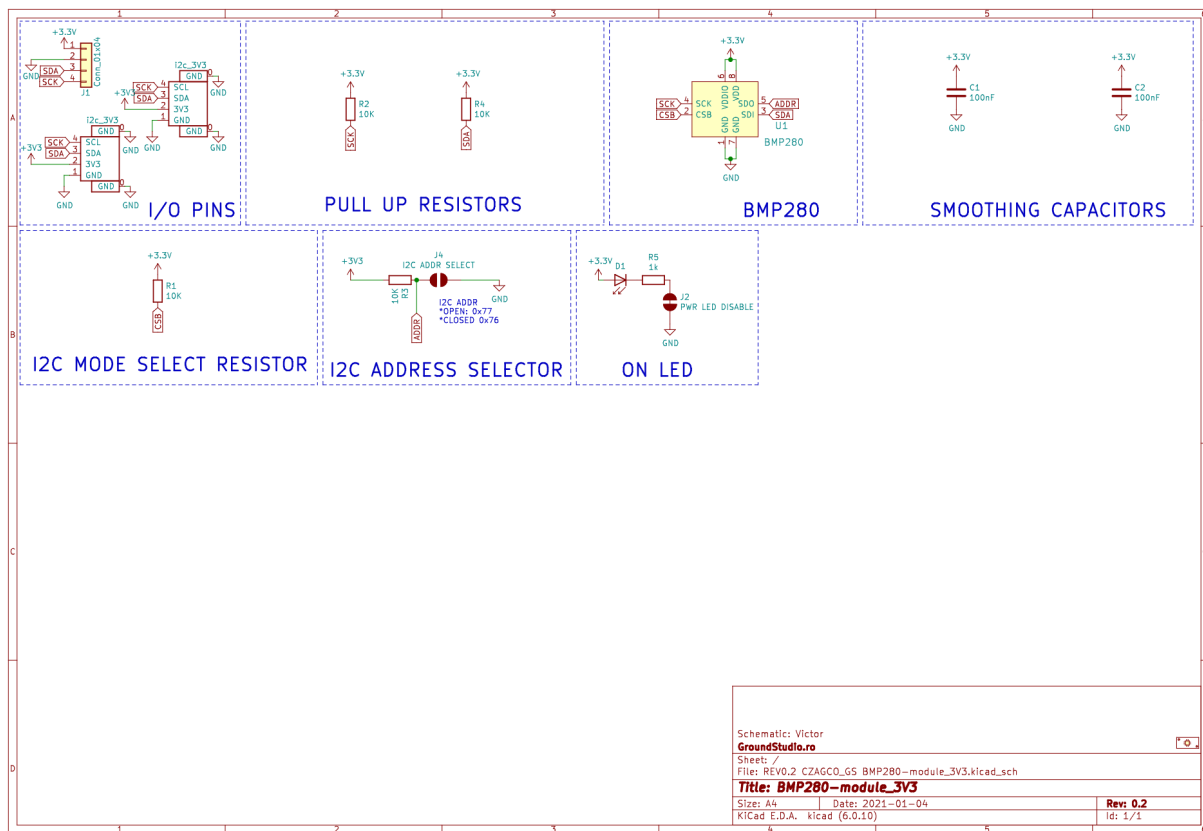
Table of Contents

Module Circuit Schematic

Figure 2: GroundStudio BMx280 module schematic circuit [Revision 0.0.2]

Open Source

This is an Open Source project, you can find all the technical documents online:

https://github.com/GroundStudio/GroundStudio_BMx280_3V3_module

License

All documentation for GroundStudio Marble Pico is released under the Attribution-ShareAlike 4.0 International (CC BY-SA 4.0) license. You are welcome to use this for commercial purposes.

Please consider contributing back to this project or others to help the open-source hardware community continue to thrive and grow!

Overview

The module integrates the BME280 temperature, atmospheric pressure and humidity sensor that uses the I²C standard for communication so it can be easily used together with most existing development boards.

The presence of the supply voltage on the I²C 3V3 port is indicated by the "PWR LED" located on the module.

For cases where consumption is desired to be minimized, the "PWR LED" can be disconnected using the "PWR LED DISABLE" jumper located on the back of the pcb.

The I²C address of the sensor can be changed using the jumper on the back of the pcb. The jumper comes by default open (with address 0x77) and can be tinned (address value becoming 0x76).

I²C 3V3 connectors are compatible with Qwiic (SparkFun) and STEMMA QT (Adafruit) standards.

Technical specifications

Temperatura masurata: **-40°C ~ +85°C**

Umiditate masurata: **0~100% RH**

Presiune atmosferica masurata: **300hPa ~ 1100hPa**

Tensiune de alimentare: **3.3V DC**

Protocol de comunicare: I²C

Adrese I²C: **0x77**(default - jumper deschis) sau **0x76**(jumper inchis)

Dimensiuni pcb: **20mm x 19.4mm**

Legal disclaimer notice

This development board is considered a subassembly in accordance with FCC CFR Title 47 §15.101(e):

https://www.ecfr.gov/current/title-47/chapter-I/subchapter-A/part-15/subpart-B/section-15.101#p-15.101(e)

The device does not have a standalone functionality and does not include an enclosure or power supply.

The device is mainly intended for development and prototyping but it can be integrated into a product. In this case it is the responsibility of the developer/manufacturer to obtain all the necessary certifications.

GroundStudio is a registered trademark of ARDUSHOP SRL:

https://www.tmdn.org/tmview/#/tmview/detail/EM500000018364087

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Datasheet Revision History

[Revision 1] - Initial version release