smôl Connectors

3.3V

PROC_PWR_EN

Bottom

SCLK
COPI
CIPO
CS0
CS1
CS2
GPIO0
GPIO1
SDA
SCL

V_USB

IN

GND

3.3V

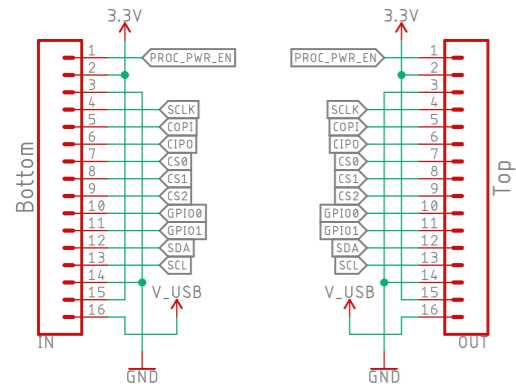PROC_PWR_EN

SCLK
COPI
CIPO
CS0
CS1
CS2
GPIO0
GPIO1
SDA
SCL

V_USB

Top

OUT

GND

I2C Pull-ups

Close jumper to enable
I2C pull-up resistors

3.3V

R2
4.7k

JP1

R3
4.7k

SDA

SCL

SGP40

3.3V

R1
4.7

C2
1.0uF

GND

3.3V

C1
1.0uF

GND

U1

VDD   SDA
VDDH
GND   SCL

SGP40

SDA

SCL

I2C Address = 0x59

BME280

3.3V

C3
2.2uF

GND

3.3V

C4
0.1uF

GND

3.3V

U2

VDD   CS
VDDIO   SDI/SDA
           SCK/SCL
GND   SDO/ADR

BME280

3.3V

GND

SDA

SCL
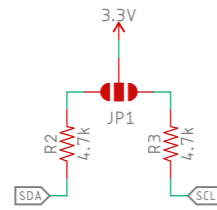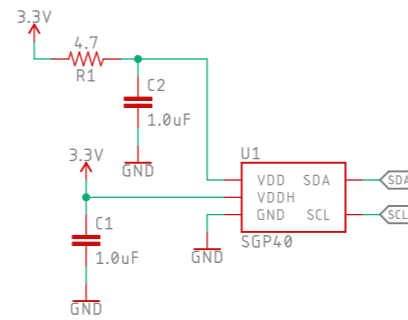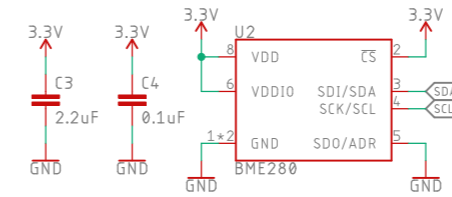
I2C Address = 0x76

VEML7700

3.3V

R4
4.7

C5
2.2uF

GND

C6
0.1uF

GND

U3

VDD   SDA
GND   SCL

VEML7700-TT

SDA

SCL

I2C Address = 0x10

smôl

open hardware

SPARK X

Special Instructions

TITLE: SparkX_smol_Environmental

Design by: Paul Clark

REV:
X01

Date: 02/11/2021 11:40

Sheet: 1/1