BME280 - Humidty, Pressure, Temperature
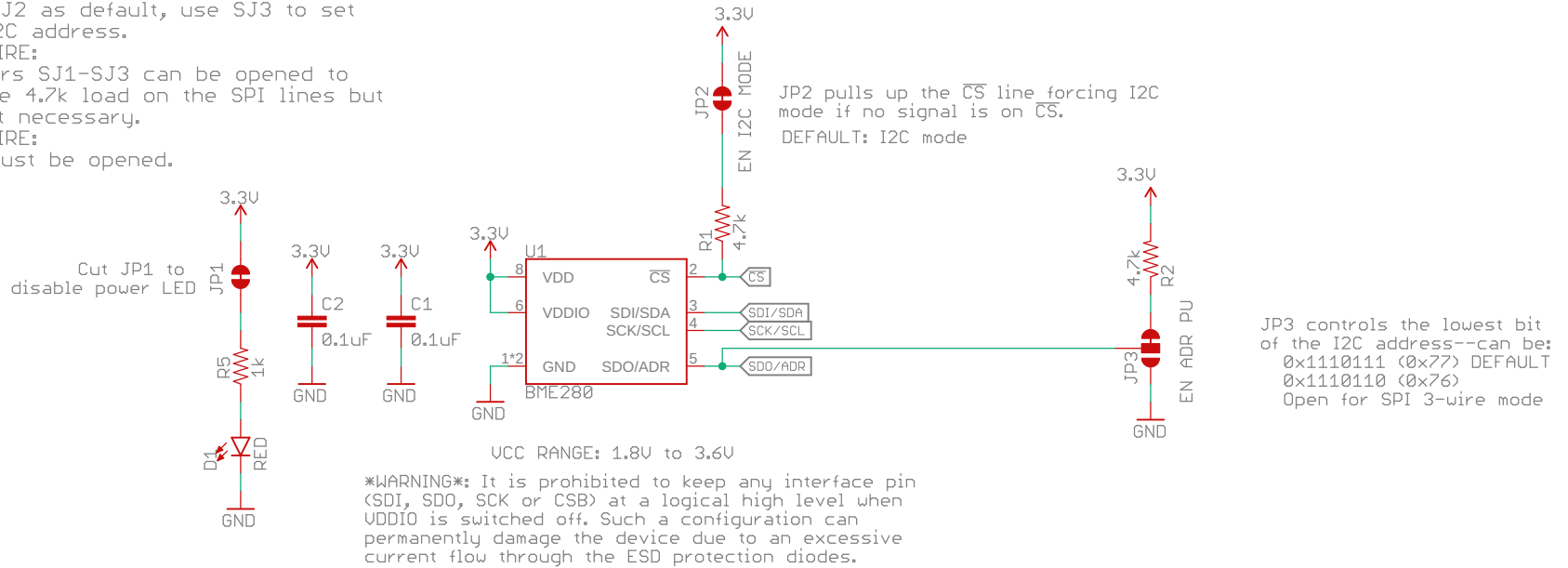
MODES:
  I2C:
    Leave the copper-connected jumpers
    SJ1-SJ2 as default, use SJ3 to set
    the I2C address.
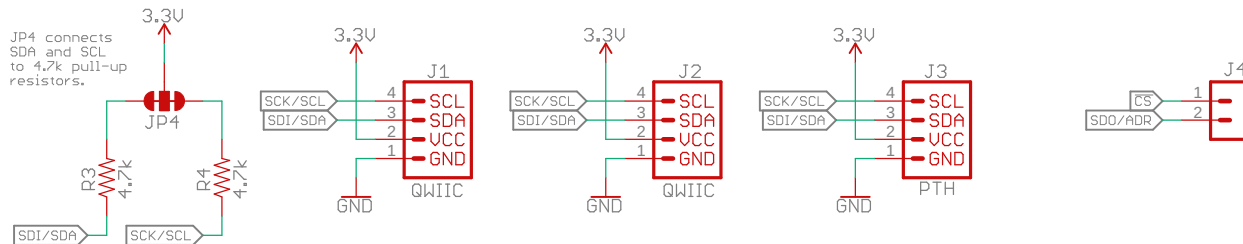 SPI 4-WIRE:
    Jumpers SJ1-SJ3 can be opened to
    remove 4.7k load on the SPI lines but
    is not necessary.
  SPI 3-WIRE:
    SJ3 must be opened.

JP2 pulls up the $\overline{CS}$ line forcing I2C
mode if no signal is on $\overline{CS}$.

DEFAULT: I2C mode

Cut JP1 to
disable power LED

JP3 controls the lowest bit
of the I2C address--can be:
  0x1110111 (0x77) DEFAULT
  0x1110110 (0x76)
  Open for SPI 3-wire mode

U1
BME280

8	VDD	$\overline{CS}$ 2
6	VDDIO	SDI/SDA 3
		SCK/SCL 4
1*2	GND SDO/ADR	5

C2 0.1uF
C1 0.1uF
R5 1k
D1 RED
R1 4.7k
R2 4.7k

VCC RANGE: 1.8V to 3.6V

WARNING: It is prohibited to keep any interface pin
(SDI, SDO, SCK or CSB) at a logical high level when
VDDIO is switched off. Such a configuration can
permanently damage the device due to an excessive
current flow through the ESD protection diodes.

Connectors and I2C Pullups

JP4 connects
SDA and SCL
to 4.7k pull-up
resistors.

R3 4.7k
R4 4.7k

J1 QWIIC
4	SCL
3	SDA
2	VCC
1	GND

J2 QWIIC
4	SCL
3	SDA
2	VCC
1	GND

J3 PTH
4	SCL
3	SDA
2	VCC
1	GND

J4
| 1 | $\overline{CS}$ |
| 2 | SDO/ADR |

sparkfun
open hardware

TITLE: Qwiic_Weather

Design by: Kenny Hora, Pete Lewis

REV:
v10

Date: 6/24/2019 4:32 PM

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