BME280 Breakout

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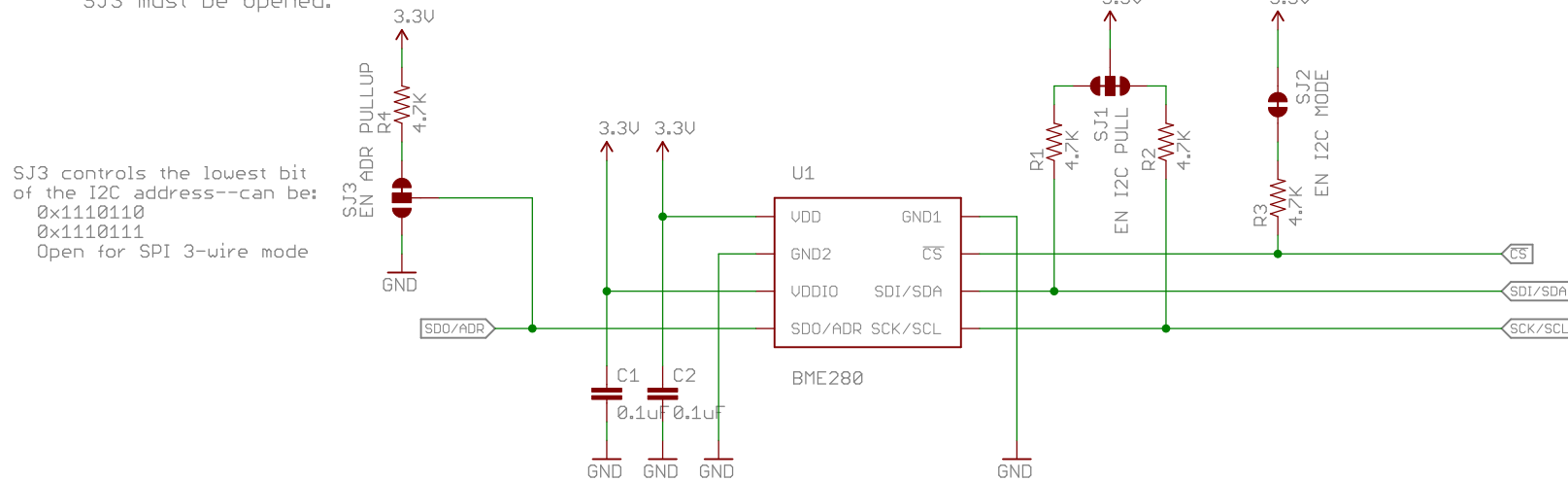   Jumpers SJ1-SJ3 can be opened to
    remove 4.7k load on the SPI lines but
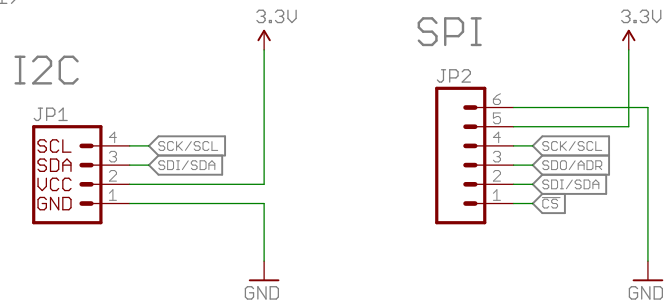   is not necessary.
  SPI 3-WIRE:
    SJ3 must be opened.

SJ1 pulls up the SCK and SDA lines
for I2C operation

SJ2 pulls up the $\overline{CS}$ line forcing I2C
mode if no signal is on $\overline{CS}$.

SJ3 controls the lowest bit
of the I2C address--can be:
  0x1110110
  0x1110111
  Open for SPI 3-wire mode

3.3V

SJ3 EN ADR PULLUP
R4
4.7K

GND

SDO/ADR

3.3V 3.3V

3.3V

R1
4.7K

SJ1
EN I2C PULL

R2
4.7K

3.3V

SJ2
EN I2C MODE

R3
4.7K

U1

VDD	GND1
GND2	$\overline{CS}$
VDDIO	SDI/SDA
SDO/ADR	SCK/SCL

BME280

$\overline{CS}$

SDI/SDA

SCK/SCL

C1   C2
0.1uF 0.1uF

GND GND GND

GND

Ports:
(Use only 1)

I2C

JP1

SCL	4	SCK/SCL
SDA	3	SDI/SDA
VCC	2	
GND	1	

3.3V

GND

SPI

JP2

	6	
	5	
	4	SCK/SCL
	3	SDO/ADR
	2	SDI/SDA
	1	$\overline{CS}$

3.3V

GND

open hardware

TITLE: SparkFun_BME280_Breakout_v10

Design by: Marshall Taylor

REV:
V10

Date: 10/22/2015 12:23 PM

Sheet: 1/1