Accelerometer – LSM6DS0

3.3V 3.3V 3.3V

L1 30Ω

C3 0.1uF C4 0.1uF

GND GND GND

VDD Range: 1.71V – 3.6V
VDDIO Range: 1.62V – 3.6V

R3 10k

U1
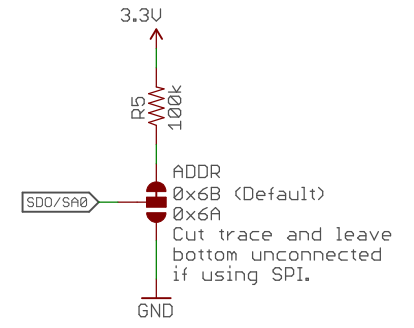| 8 | VDD | SDA | 14 | SDA |
5	VDDIO	SCL	13	SCL
4	INT1	SDO/SA0	1	SDO/SA0
9	INT2	$\overline{CS}$	12	CS
6	GND	SDIX	2	SDI_AUX
7	GND	SCX	3	SCX
		OCSX	10	OCS
		SDOX	11	SDO_AUX

INT1
INT2
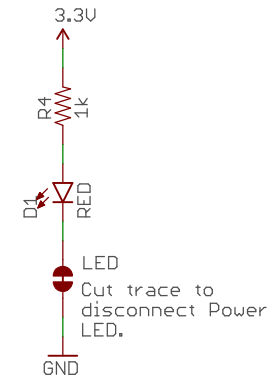
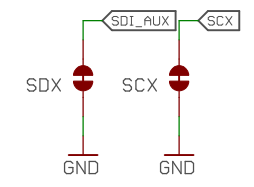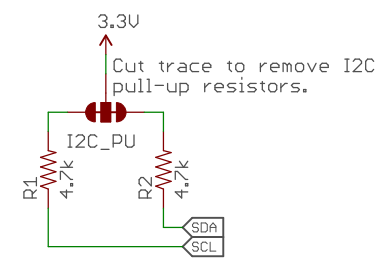LSM6DS0

SERIAL MODES
MODE1: Perhipheral-only mode
         I2C or SPI
MODE2: Sensor Hub mode
         I2C or SPI with controller I2C port
MODE3: AUX SPI mode
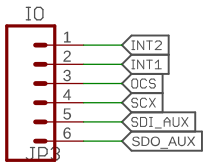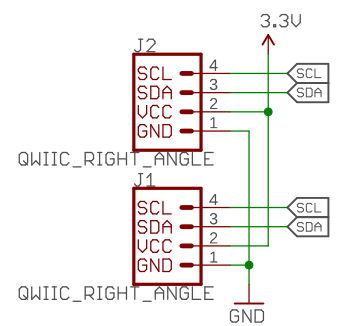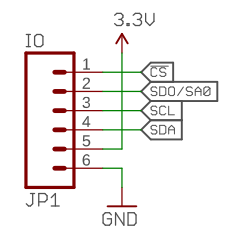   I2C and SPI access (Multi-read)

Jumpers

3.3V

R4 1k

D1 RED

LED
Cut trace to
disconnect Power
LED.

GND

3.3V

Cut trace to remove I2C
pull-up resistors.

I2C_PU

R1 4.7k   R2 4.7k

SDA
SCL

3.3V

R5 100k

SDO/SA0

ADDR
0x6B (Default)
0x6A
Cut trace and leave
bottom unconnected
if using SPI.

GND

If downstream SPI devices are
hosted by the LSM6DSO, release
SCx and SDx from ground by
cutting traces.

SDI_AUX   SCX

SDX   SCX

GND   GND

Connectors

IO
3.3V

1	CS
2	SDO/SA0
3	SCL
4	SDA
5	
6	

JP1
GND

IO

1	INT2
2	INT1
3	OCS
4	SCX
5	SDI_AUX
6	SDO_AUX

JP3

J2
3.3V

4	SCL	SCL
3	SDA	SDA
2	VCC	
1	GND	

QWIIC_RIGHT_ANGLE

J1

4	SCL	SCL
3	SDA	SDA
2	VCC	
1	GND	

QWIIC_RIGHT_ANGLE

GND

open hardware qwiic sparkfun

TITLE: SparkFun_6DoF_LSM6DSO

Design by: Marshall Taylor
Revised by: Elias Santistevan

REV: v10

Date: 5/4/2021 12:30 PM

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