SparqEE ACCELv1.0 Datasheet

The ACCELv1.0 is provided as a wide input range accelerometer based on the Analog Devices ADXL345. Please see the ADXL345 datasheet for further specifications and features.

Most development environments provide a 3.3V output but sometimes utilize higher voltage I/O lines (Arduino is 5V I/O, Raspberry Pi is 3.3V I/O). This board can support any voltage I/O lines up to 15V.

- SparqEE: http://sparqee.com/
- Accelerometer: http://www.sparqee.com/products/sparqee-accel
- Forum: http://www.forum.sparqee.com/
- Code/Drivers: http://www.sparqee.com/code-cell/

Features:

- 3.3-15V I2C line operation
- 2 Interrupt lines

Specification:

Power

- Supply: 2.0 to 3.6V (for 3.3V)
- I/O: 2.0 to 15V

Physical

- 24mm x 23mm (0.94" x 0.91")
- Weight: 0.10oz

Operating Temperature

- -40°C to +85°C

Pin Assignment:

Pin	#	Function	Optional/Required	Voltage	I/O
GND	1	Ground connection	Required	0	I
1	2	Interrupt 1 from ADXL345	Optional	3.3V	O
2	3	Interrupt 2 from ADXL345	Optional	3.3V	O
SDA	4	I2C SDA line	Optional	3.3V	I/O

SCL	5	I2C SCL line	Optional	3.3V	I/O
3V3	6	3.3V power line	Required	3.3V	I
SDA_HV	7	I2C SDA line, HV	Optional	3.3-15V	I/O
SCL_HV	8	I2C SCL line, HV	Optional	3.3-15V	I/O
HV	9	High Voltage power line (required if using HV I2C line)	Optional	3.3-15V	I