

# Qwiic Triple Axis Accelerometer Breakout

SEN-14480

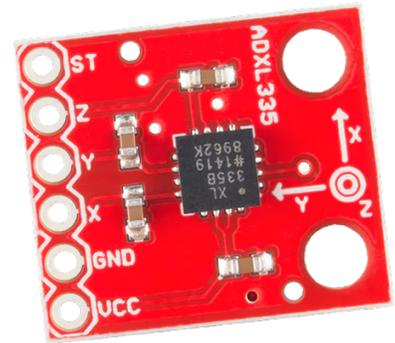
## Product Overview

12-21-2021

For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

Sparkfun Triple Axis Accelerometer Breakout is a low-power and high-g accelerometer designed for shock and collision detection as well as impact recognition and logging. This breakout board features H3LIS331DL 3-axis digital accelerometer, I<sup>2</sup>C and SPI interface options, 10000g high-shock survivability, and 0.5kHz to 1kHz adjustable data rate. The H3LIS331DL is available with dynamically selectable full scales of  $\pm 100\text{g}/\pm 200\text{g}/\pm 400\text{g}$  and measures accelerations with output data rates from 0.5kHz to 1kHz. The triple Axis accelerometer breakout has breadboard-friendly 0.1 inches pins and convenient mounting holes to attach the breakout to any unique project. Typical applications include shock detection, concussion detection, and image recognition and logging.



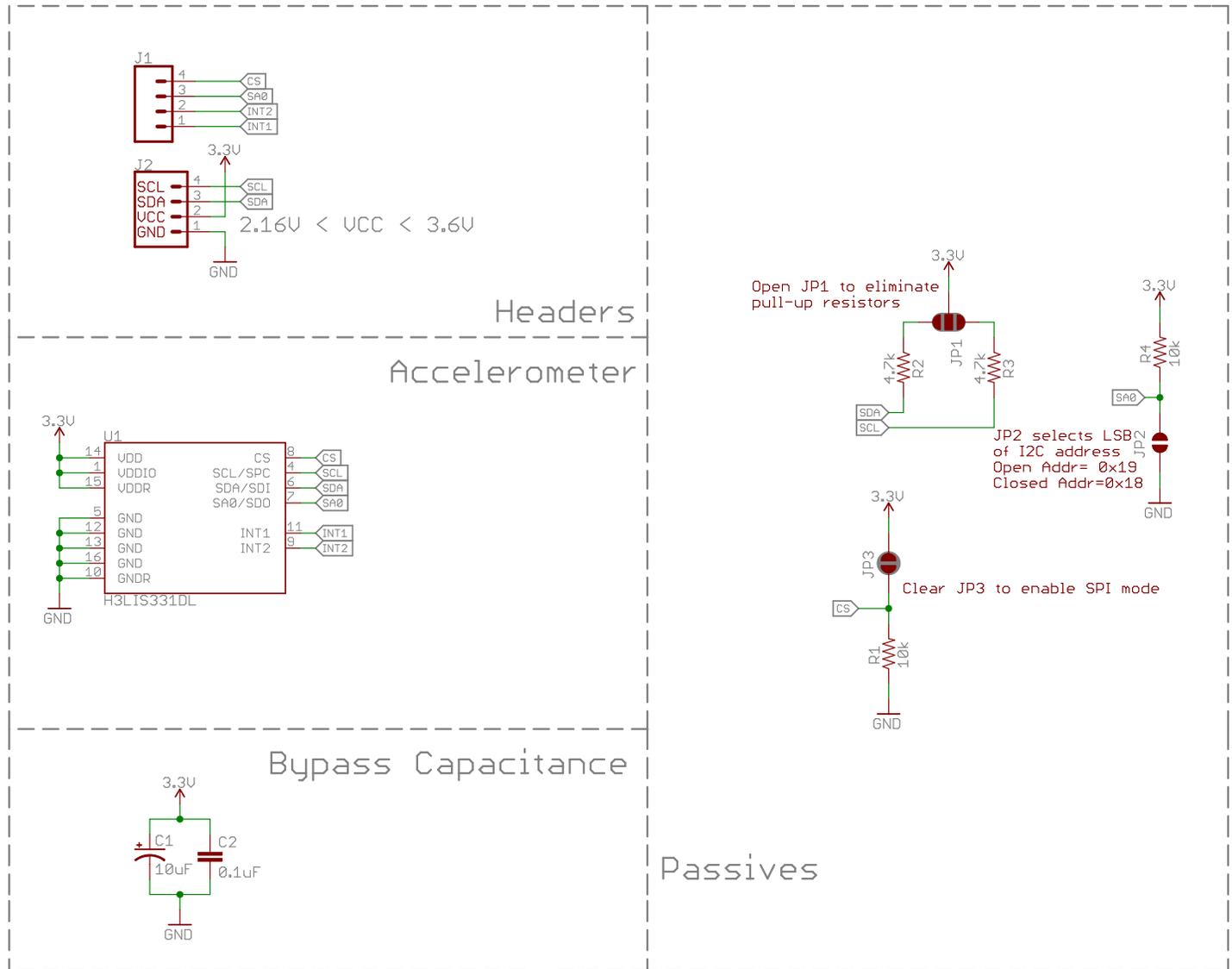
## Features

- 2.16V to 3.6V wide supply voltage
- 1.8V low-voltage compatible IOs
- Ultra-low power consumption
- $\pm 100\text{g}/\pm 200\text{g}/\pm 400\text{g}$  dynamically selectable full scales
- I<sup>2</sup>C and SPI digital output interface
- 16-bit data output
- Sleep-to-wake function
- 10000g high-shock survivability
- 0.5kHz to 1kHz adjustable data rate
- 0.1 inches breadboard-friendly pins

## Applications

- Shock detection
- Concussion detection
- Impact recognition and logging

## Schematic Diagram



## Mouser Part Number

[View Part](#)

To learn more, visit

<https://www.mouser.com/new/sparkfun/sparkfun-triple-axis-accelerometer-breakout/>