

SPX-17353 BMI270 Breakout Board

Highly integrated low-power IMU for wearables, smart clothing, & AR/VR applications

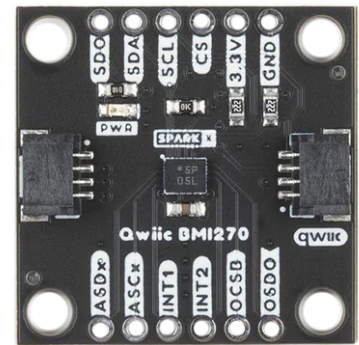
Product Overview

05-05-2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

The SPX-17353 BMI270 Breakout Board from SparkFun is a highly integrated and low-power Inertial Measurement Unit (IMU) designed for wearable, smart clothing, and AR/VR applications. The BMI 270 Sensor comprises a fast and sensitive accelerometer, gyro pair, and also a number of intelligent, on-chip motion-triggered interrupt features. The BMI270 IMU Breakout makes it easy to add this sensor to projects using solderless Qwiic cables and compatible controllers. On-board solder jumpers allow easy selection of the device address, removal of the I²C pull-ups, and disabling the power LED if required.



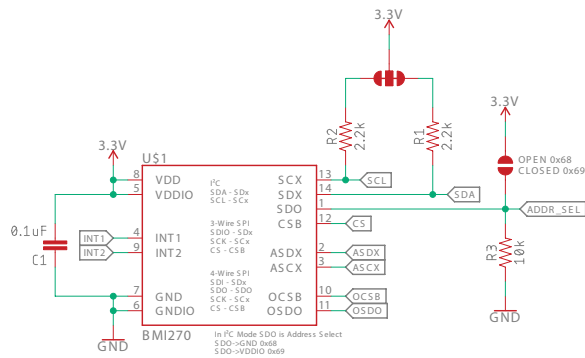
Features

- 6-bit 3-axis accelerometer with $\pm 2g/\pm 4g/\pm 8g/\pm 16g$ range
- 16-bit 3-axis gyroscope with $\pm 125dps/\pm 250dps/\pm 500dps/\pm 1000dps/\pm 2000dps$ range
- 400kHz AUX sensor interface with hardware synchronization
- 1.8V and 3.3V operation
- Ultra-low current consumption
- Smart features:
 - Significant motion / any motion / motion detect
 - No motion / stationary detection
 - Wristwear wakeup / wrist-worn step counter
 - Activity change recognition
 - Wrist gesture recognition

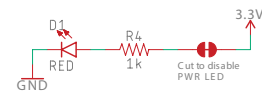
Resources

- [BMI270 Datasheet](#)
- [Learn more about BMI270](#)

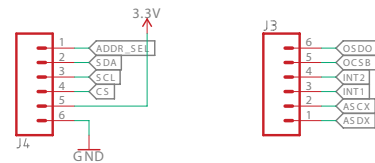
Schematic



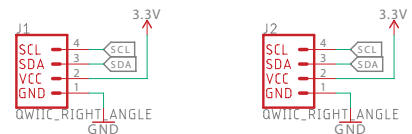
BMI270



POWER LED



0.1" HEADERS



QWIC CONNECTORS

Overview



Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-bmi270-breakout-board/>