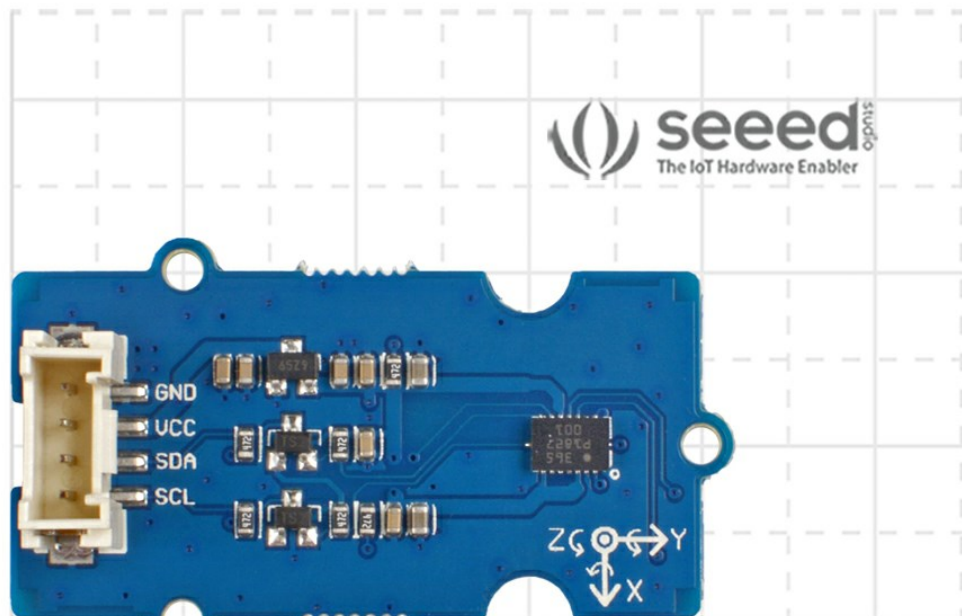




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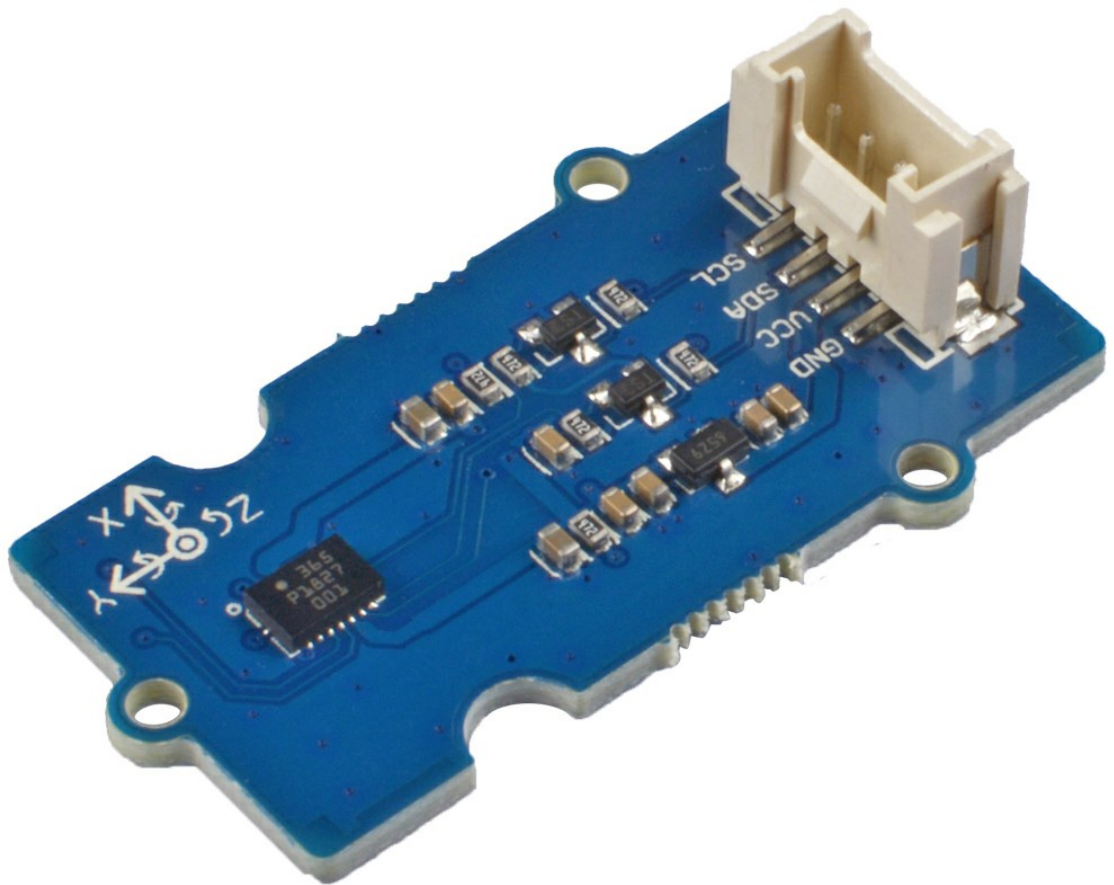
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INCH



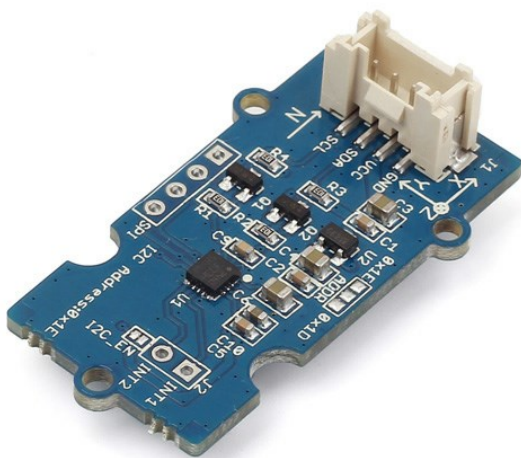
Grove - 6-Axis Accelerometer&Gyroscope (BMI088)

SKU 101020584



1

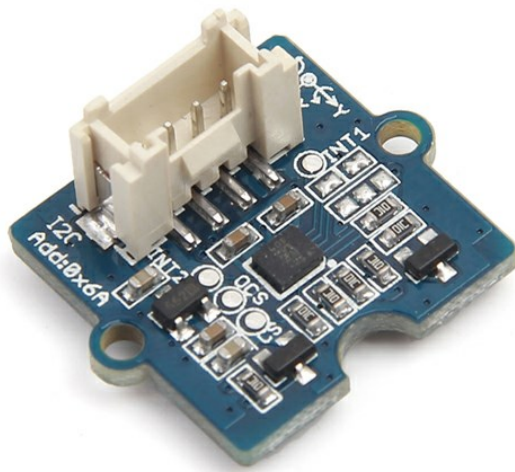
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Grove - 6-Axis Accelerometer&Compass v2.0

Grove - 6-Axis Accelerometer&Compass v2.0

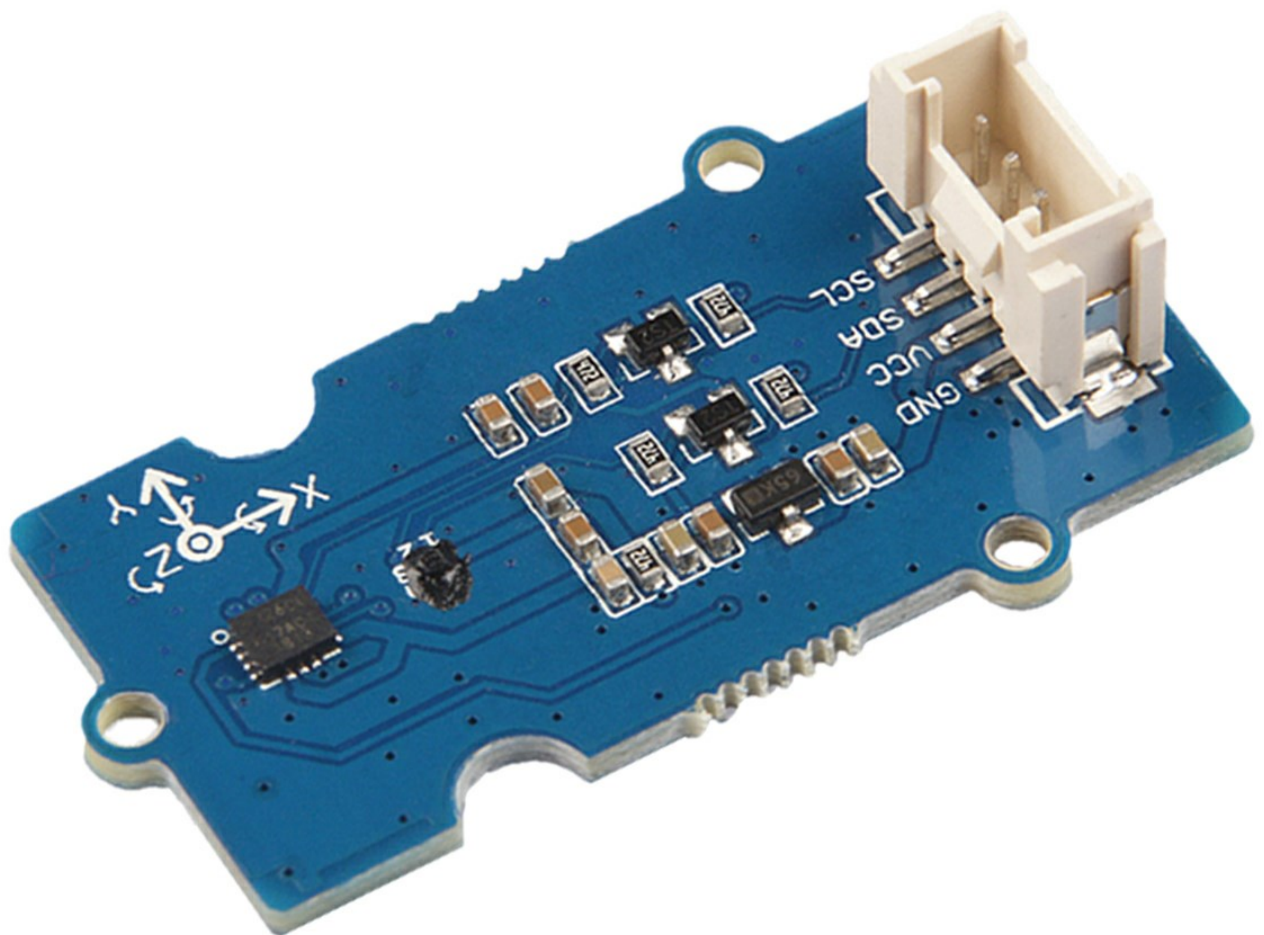
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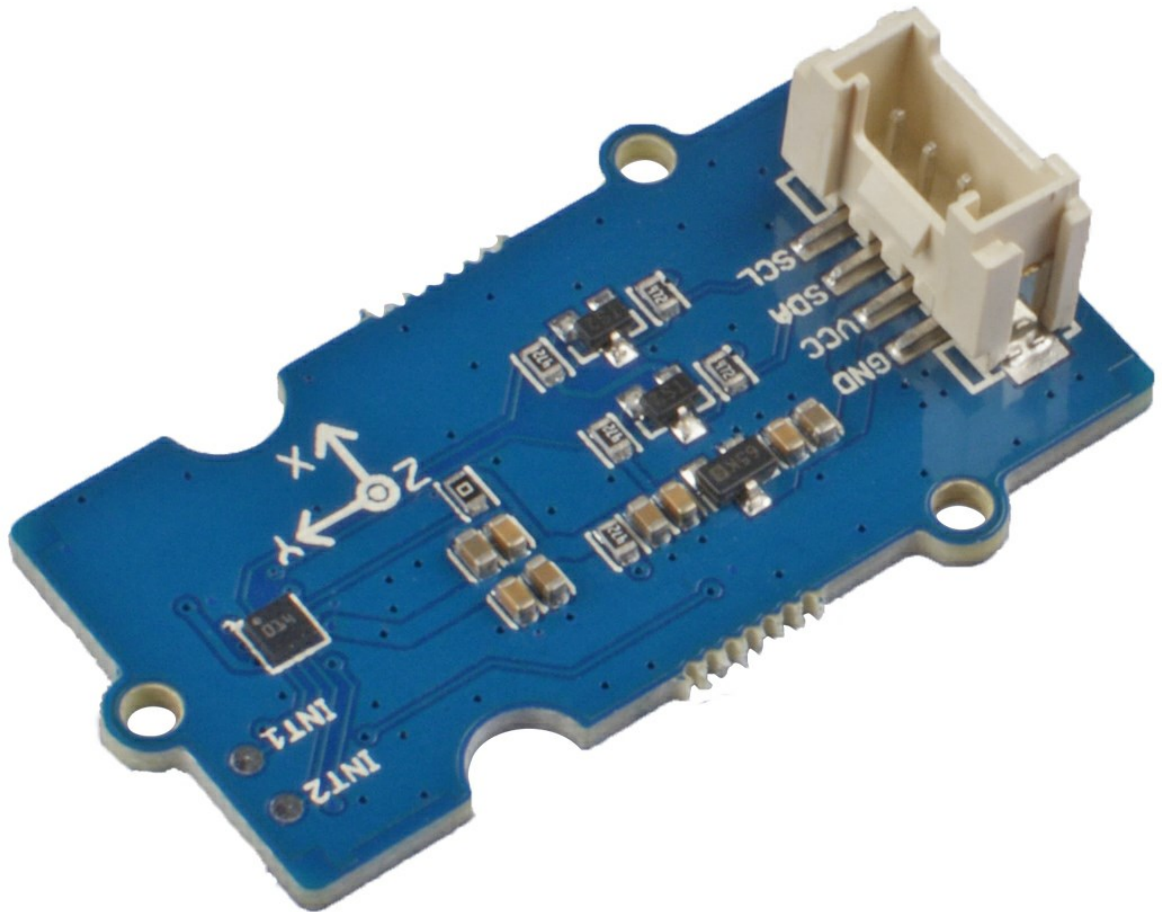
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Grove - IMU 9DOF (ICM20600+AK09918)

Grove - IMU 9DOF (ICM20600+AK09918)

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Grove - Step Counter (BMA456)

Grove - Step Counter (BMA456)

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Description

The Grove - 6-Axis Accelerometer&Gyroscope(BMI088) is a 6 DoF(degrees of freedom) High-performance Inertial Measurement Unit(IMU) .This sensor is based on BOSCH BMI088, a high-performance IMU with high vibration suppression. The 6-axis sensor combines a 16 bit triaxial gyroscope and a 16 bit triaxial accelerometer. Specially, you can use this sensor in the drone and robotics application in demanding environments.

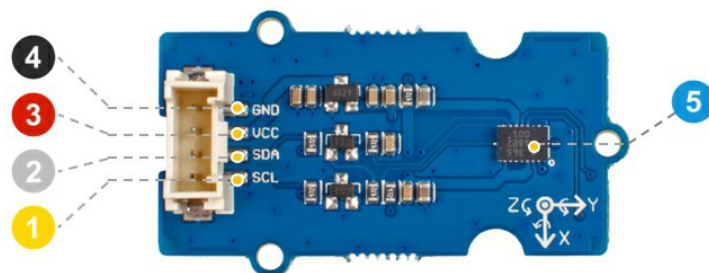
Features

- The BM1088 is designed for drones, robotics and industry applications with challenging performance requirements.
- Wide acceleration measurment range(up to 24g)
- The accelerometer features a low TCO of 0.2 mg/K and low spectral noise of only 230 pg/sqrt(Hz) in the widest measurement range of $\pm 24\text{ g}$

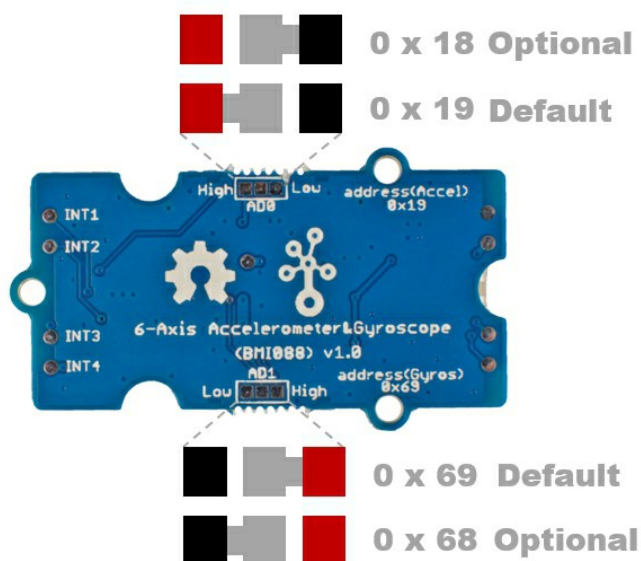
Typical Applications

- Drones and flying toys
- Industrial robots, hover boards
- Domestic applications(e.g. vacuum cleaner, social robots,etc.)

Pin Out



- ④ GND: connect this module to the system GND
- ③ VCC: you can use 5V or 3.3V for this module
- ② SDA: I²C serial data
- ① SCL: I²C serial clock
- ⑤ the BMI088 module



Technical Details

| | |
|--|--|
| Dimensions | 40mm x 20mm x 7mm |
| Weight | G.W 9.40g |
| Battery | Exclude |
| Operating Voltage | 3.3V / 5V |
| Measurement range and sensitivity | |
| Accelerometer | $\pm 3\text{g}$ @10920 LSB/g |
| - | $\pm 6\text{g}$ @5460 LSB/g |
| - | $\pm 12\text{g}$ @2730 LSB/g |
| - | $\pm 24\text{g}$ @1365 LSB/g |
| Gyroscope | $\pm 125^\circ/\text{s}$ @262.1 LSB/ $^\circ/\text{s}$ |
| - | $\pm 250^\circ/\text{s}$ @131.1 LSB/ $^\circ/\text{s}$ |
| - | $\pm 500^\circ/\text{s}$ @65.5 LSB/ $^\circ/\text{s}$ |
| - | $\pm 1000^\circ/\text{s}$ @32.8 LSB/ $^\circ/\text{s}$ |
| - | $\pm 2000^\circ/\text{s}$ @16.4 LSB/ $^\circ/\text{s}$ |
| Operating Temperature Range-40°C ~ +85°C | |

Part List

Grove - 6-Axis Accelerometer&Gyroscope(BMI088)1
Grove Cable1

ECCN/HTS

ECCN7A994
HSCODE9031900090

Learn



[Wiki] Grove - 6-Axis Accelerometer&Gyroscope(BMI088)

This is the wiki page for this product, which will show you how to use the product, as well as details about the software and hardware.

Questions and Answers

Have a question about this? Ask people who

- 0

The wiki link is not working. I would love to use this on my Halloween show.

mello_roberto on Oct 24,2018

Reply

upvote (0)

Hi there, the wiki works now. thanks.

Seed Techsupport Team on Oct 24,2018 15:16 PM

Reply

upvote (0)

Grove - 6-Axis Accelerometer&Gyroscope (BMI088)

SKU 101020584



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