

LSM303AGR

Accelerometer Magnetometer Breakout

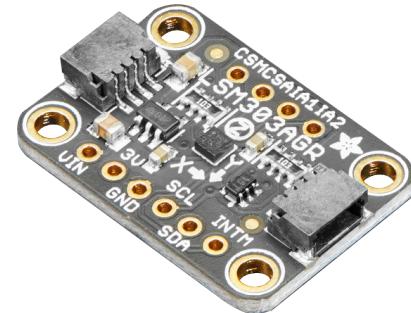
Product Overview

10-28-2021

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

Description

Adafruit LSM303AGR Accelerometer Magnetometer Breakout Board is a triple-axis accelerometer/magnetometer compass module that consists of two sensors. One sensor is a 3-axis accelerometer, which can tell the user which direction is down towards the Earth (by measuring gravity). The other sensor is a magnetometer that can sense where the strongest magnetic force is coming from and is generally used to detect magnetic north. This board is based on the LSM303AGR. This compact sensor uses I²C to communicate and is very easy to use.



The LSM303AGR is mounted in the breakout board PCB and includes the support circuitry with 3.3V (Feather/Raspberry Pi) or 5V (Arduino/ Metro328) logic levels. Since it uses I²C, the user can also easily connect it up with two wires (plus power and ground). The SparkFun Qwiic compatible STEMMA QT connectors for the I²C bus are included, so there is no need to solder. The breakout board is fully assembled and tested and it comes with 0.1" standard header in case the user wants to use it with a breadboard or perfboard. Four 2.5mm (0.1") mounting holes make an easy attachment.

Features

- Uses I²C 7-bit addresses 0x19 & 0x1E
- ± 50 gauss magnetic dynamic range
- 1.5m Gauss magnetic sensitivity
- Accelerometer ranges: $\pm 2g/\pm 4g/\pm 8g/\pm 16g$
- As little as 1mg accelerometer sensitivity
- 1.7g (0.1oz) product weight
- 25.4mm x 17.7mm x 4.6mm (1.0"x0.7"x0.2") product dimensions

Mouser Part Number(s)

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To learn more, visit <https://www.mouser.com/new/adafruit/adafruit-lsm303agr-breakout-board/>