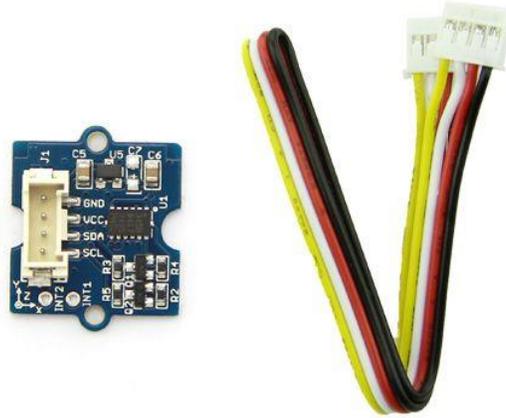


Grove - ADXL345 - 3-Axis Digital Accelerometer ($\pm 16g$) – 101020054



PRODUCT DETAILS

Description

Grove - ADXL345 is a small, thin, ultra-low power 3-axis accelerometer, providing high resolution (13-bit) measurement at up to $\pm 16g$.

The ADXL345 is well suited for mobile device applications. It measures the static acceleration of gravity in tilt-sensing applications, as well as dynamic acceleration resulting from motion or shock. Its high resolution (3.9 mg/LSB) enables measurement of inclination changes less than 1.0° .

Grove - ADXL345 is with the extreme low power consumption, as low as $23 \mu A$ in measurement mode and $0.1 \mu A$ in standby mode. The Low power modes enable intelligent motion-based power management with threshold sensing and active acceleration measurement at extremely low power dissipation.

There is an onboard a 4-pin Grove interface (3-5VDC) for easily connect with Arduino boards and Seeeduino boards.

Features

- Wide power range DC3V to 5V
- Plug and Play with Arduino boards by Grove connector
- 3 axis sensing
- High sensitivity

- Small, low-profile package: 14-Terminal LGA
- Low power 0.1 μA in standby mode at $V_S = 2.5\text{ V}$ (typical)
- 10,000 g shock survival
- RoHS/WEEE lead-free compliant

Application

Based on the excellent ADXL-345, this digital 3-axis accelerometer has excellent EMI protection. Its variable output makes it suitable for a wide range of applications:

- HDD shock protection
- Vibration sensor
- Game controller input
- Robotics
- Smart vehicles
- Anywhere you need to obtain motion-sensing & orientation information.

Technical details

Dimensions	130mm x90mm x10mm
Weight	G.W 9g
Battery	Exclude

Part List

Grove - 3 Axis Digital Accelerometer($\pm 16\text{g}$)	1
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ECCN/HTS

HSCODE	9031900090
USHSCODE	9031808070
UPC	841454108870

