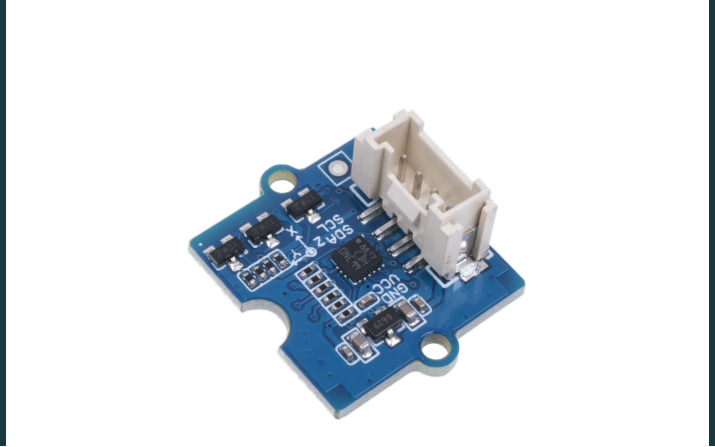
seeed studio

INDUSTRIAL PRODUCT DATASHEET

Grove - 3-Axis Digital Accelerometer, ultra-low-power and high performance linear accelerometer powered by LIS3DHTR(ST), with dynamically selectable scale and multiple digital output interfaces

Grove - 3-Axis Digital Accelerometer(LIS3DHTR) is a low-cost 3 - Axis accelerometer which is based on the LIS3DHTR chip which provides multiple ranges and interfaces selection.

SKU	UPDATED	PRICE
114020121	2026-11-11 08:27:56	$4.50(Excl. VAT)



Overview



Grove - 3-Axis Digital Accelerometer(LIS3DHTR) is a low-cost 3 - Axis accelerometer which is based on the LIS3DHTR chip which provides multiple ranges and interfaces selection.

Key Features

01 **Super low-cost**

3-Axis sensor with cost-effective chip(LIS3DHTR) manufactured by STMicroelectronics.

02 **Ultra-low-power consumption**

supports ultra-low-power operational modes that allow advanced power saving and smart embedded functions.

03 **Dynamically user-selectable full scales**

multiple ranges selections with ±2g, ±4g, ±8g, ±16g provided.

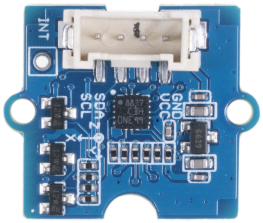
04 **Multiple interface standard output options**

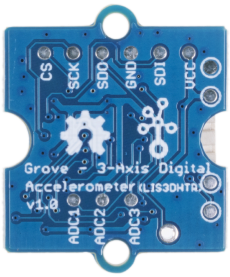
Grove I2C interface, SPI interface and ADC interface supported.

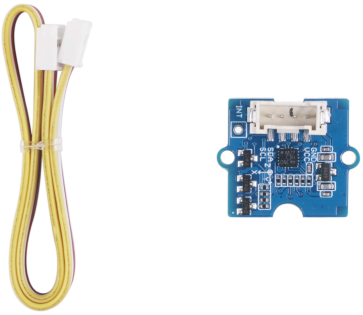
05 **Temperature adjustable**

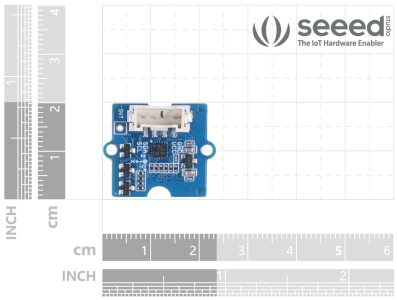
Embedded temperature sensor allows you to adjust and tune the error caused by temperature.

Product Gallery









Applications

- **Free-fall detection**
- **Motion detection**
- **Intelligent power saving for handheld devices (Such as Pedometers)**
- **Gaming and virtual reality input devices**
- **Vibration monitoring and compensation**
- **Impact recognition and logging**

Resource Links

- https://www.seeedstudio.com/Grove-3-Axis-Digital-Accelerometer-LIS3DHTR-p-4533.html
- LIS3DHTR Datasheet
- Hardware schematic
- Arduino Library

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