

Fermion: I²C LIS331HH Triple Axis Accelerometer

SEN0407

Product Overview

11/11/2022

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

Description

DFRobot Fermion: I²C LIS331HH Triple Axis Accelerometer is an ultra-low-power high precision triple-axis linear accelerometer with 16-bit data output. This board has user-selectable full scales of $\pm 6g/\pm 12g/\pm 24g$ and is capable of measuring accelerations with output data from 0.5Hz to 1kHz. The LIS331HH accelerometer power consumption is as low as 10 μ A. This board contains two programmable independent interrupt engines that can recognize dedicated inertial events, which makes it more playable. Applications include navigation, smart agriculture, robotic technology, and VR/AR.



Features

- Selectable scale range of $\pm 6g/\pm 12g/\pm 24g$
- Two programmable interrupts
- Smart sleep-to-wake-up function that allows advanced power saving
- 16-bit data output

Kit Contents

- 1x Fermion: LIS331HH Triple Axis Accelerometer (Breakout)
- 2x 2.54-4P Black Single Row Pin Header

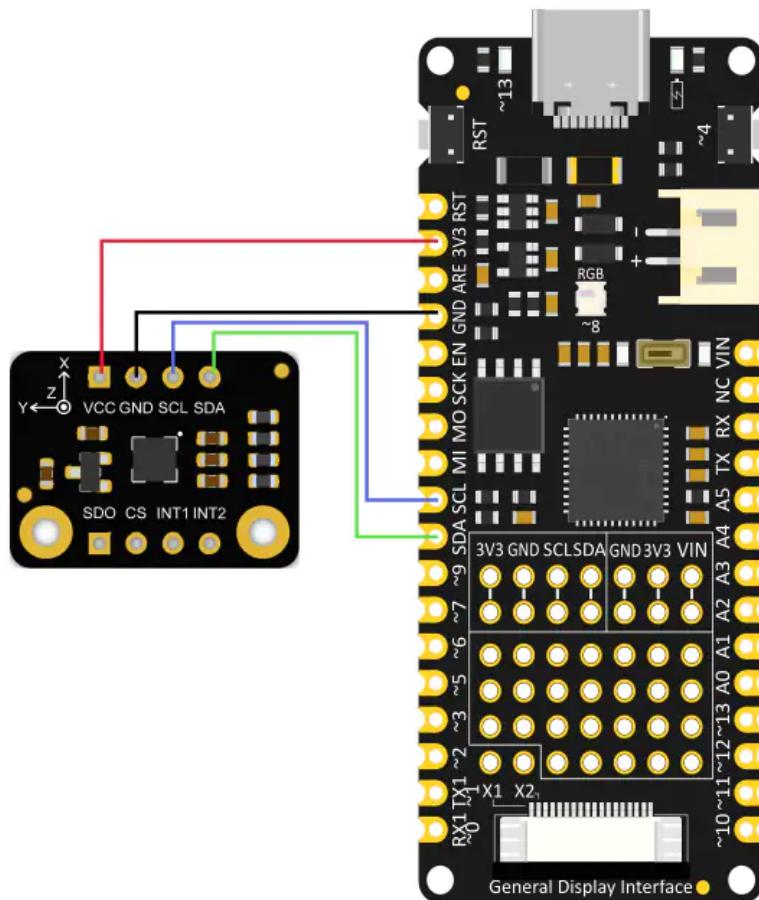
Applications

- Navigation
- Smart agriculture
- Robotic technology
- VR/AR

Specifications

- 3.3V operating voltage
 - Operating current:
 - 10 μ A~140 μ A (Low-power mode)/0.3 mA~0.4 mA (Normal mode)
 - Interface:
 - I²C/SPI
 - I²C Address:
 - 0x19 (Default)/0x18 (Selectable)
 - $\pm 6g/\pm 12g/\pm 24g$ selectable scale range
 - 16-bit data output
 - 0.5Hz to 1KHz frequency range
 - -40°C to +85°C operating temperature range
 - 10000g high shock survivability
 - ECOPACK®RoHS and “Green” Compliant
 - 15*20 (mm)/0.59*0.79" dimensions

Connection Diagram



The information contained in this document should be used as a guideline only.

Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-fermion-i2c-accelerometer/>