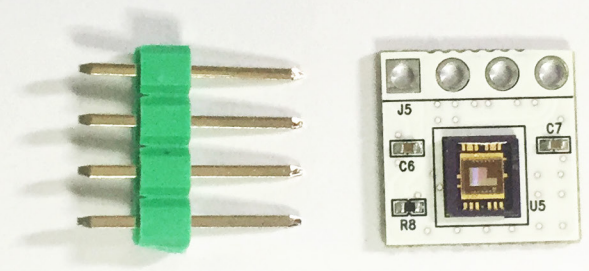


Accelerometer Sensor Module #1



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Description

ANALOG DEVICES社의 ADXL362 센서를 이용하여 제작한 가속도 센서 모듈입니다.

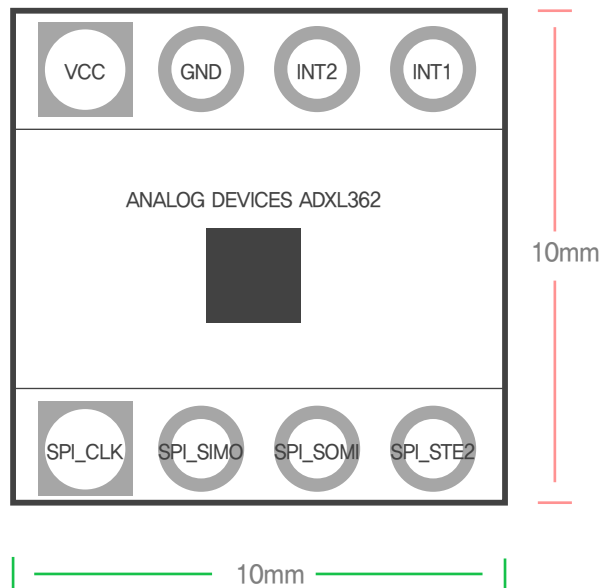
ADXL362은 샤오미社의 스마트 밴드에 탑재 된 가속도 센서입니다. Ultralow power으로 구동되며 스마트 기기에 다양하게 사용되고 있습니다. 온도센서기능도 내장되어 있습니다.

Add. Kong's Idea Lab에서 고성능 스마트기기를 개발중 사용하게 된 모듈입니다.

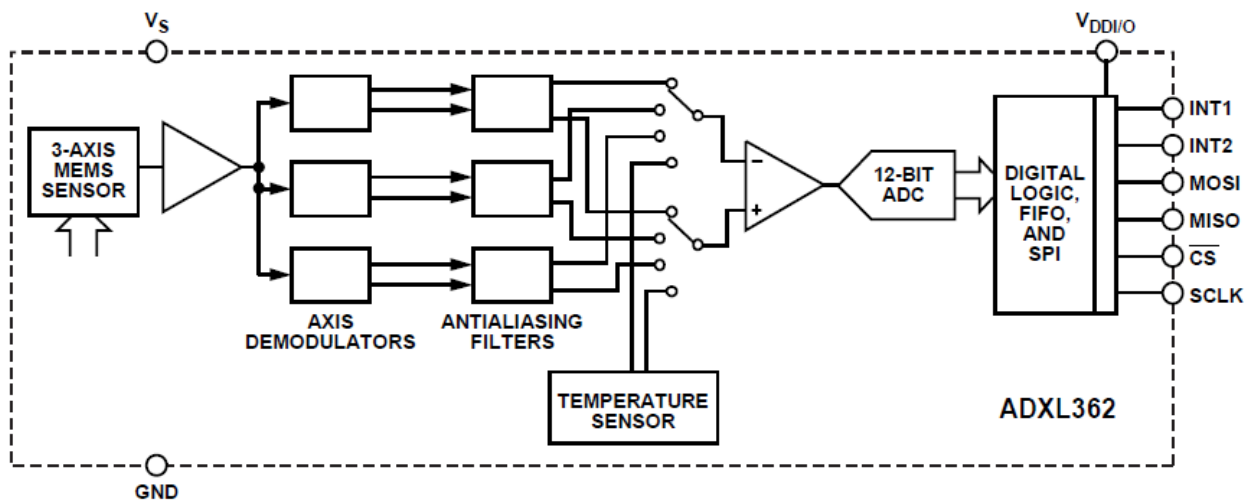
Features

- Ultralow power
- Power can be derived from coin cell battery
 - 1.8 μ A @ 100 Hz ODR, 2.0 V supply
 - 3.0 μ A @ 400 Hz ODR, 2.0 V supply
 - 270 nA motion activated wake-up mode
 - 10 nA standby current
- High resolution: 1 mg/LSB
- Low noise down to 175 μ g/ $\sqrt{\text{Hz}}$
- Wide supply and I/O voltage ranges: 1.6 V to 3.5 V
 - Operates off 1.8 V to 3.3 V rails
- Acceleration sample synchronization via external trigger
- On-chip temperature sensor
- SPI digital interface
- Measurement ranges selectable via SPI command

Dimensions



Functional Block Diagram



Pin Functions(Wiring)

ADXL362	Arduino Uno
VCC	3.3V
GND	GND
SPI_CLK	PIN13
SPI_SIMO	PIN12
SPI_SOMI	PIN11
SPI_STE2	PIN10

Applications

- Hearing aids • Home healthcare devices • Wireless sensors
- Motion enabled power save switches • Motion enabled metering device

Includes

- Accelerometer Sensor Module #1 1E/A
- Pin Header Single 1x4Pin Straight(2.54mm) 2E/A

아두이노 연결 예시



참고링크

HDC1000 Datasheet - <http://www.ti.com/lit/ds/symlink/hdc1000.pdf>
 Arduino library - <https://github.com/ftruzzi/HDC1000-Arduino>