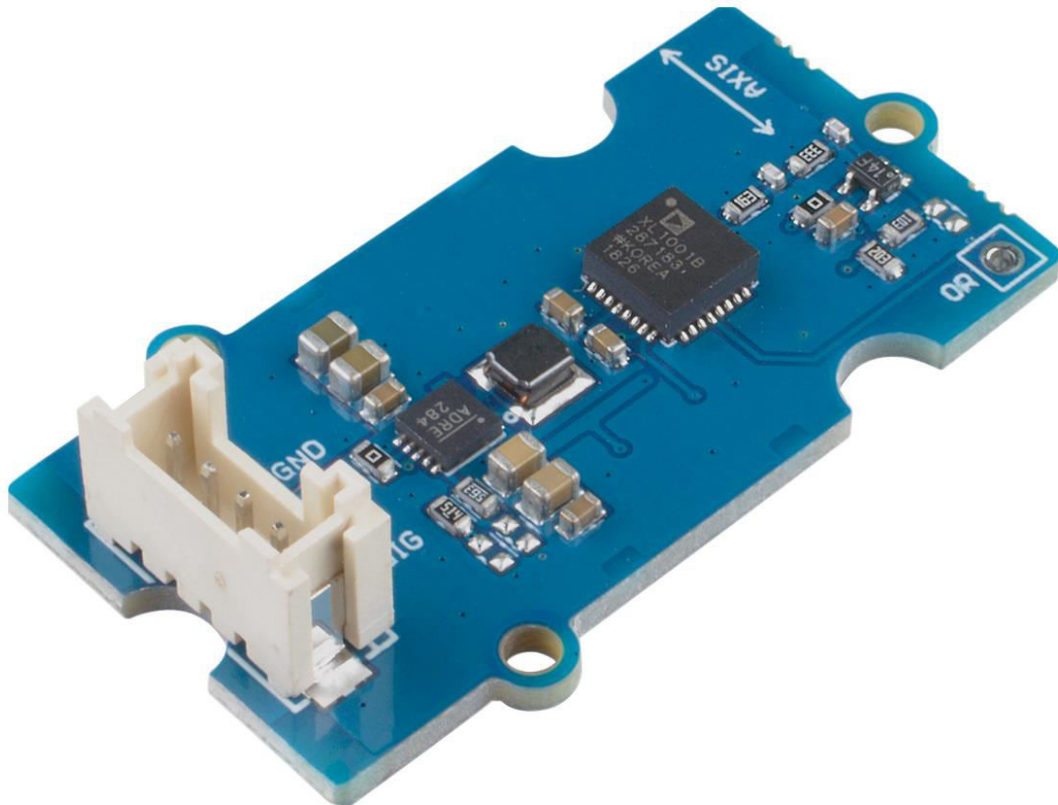




seeed studio
The IoT Hardware Enabler



The Grove - Single Axis Analog Accelerometer $\pm 100g$ (ADXL1001) is an ultralow noise, high frequency, high G, industrial grade MEMS accelerometer, based on the ADI ADXL1001.

The ADXL1001 has typical noise densities of $30 \mu g/\sqrt{Hz}$ and a linear frequency response range from dc to 11 kHz (3 dB point). The ADXL1001 also has an integrated full electrostatic self-test (ST) function and an over-range (OR) indicator that allows advanced system-level features and is useful for embedded applications.

With low power and single-supply operation of 3.3 V to 5.25 V and power saving selectable standby mode, the ADXL1001 also enables wireless sensing product design.

Features

- Single in plane axis accelerometer with analogue output
- Linear frequency response range from dc to 11 kHz (3 dB point), resonant frequency of 21 kHz
- Ultralow noise density: 30 $\mu\text{g}/\sqrt{\text{Hz}}$ in $\pm 100\text{g}$ range
- Complete electromechanical self-test
- Linearity to $\pm 0.1\%$ of full-scale range
- Sensitivity stability over temperature 5%
- Cross axis sensitivity $\pm 1\%$ (ZX), $\pm 1\%$ (YX)

Applications

- Condition monitoring
- Predictive maintenance
- Asset health
- Test and measurement
- Health usage monitoring system (HUMS)

Hardware Overview

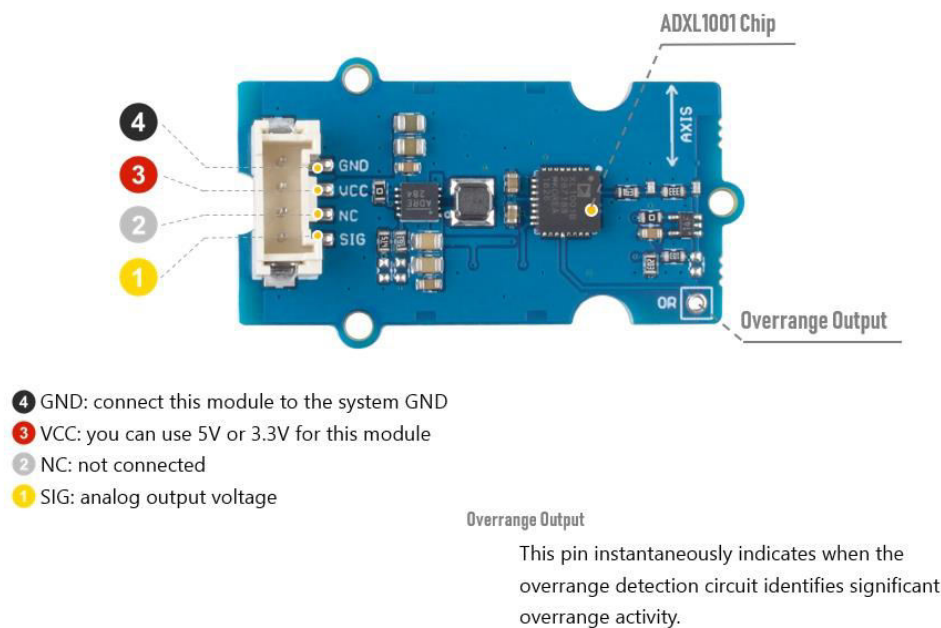


Figure 1. *hardware overview*

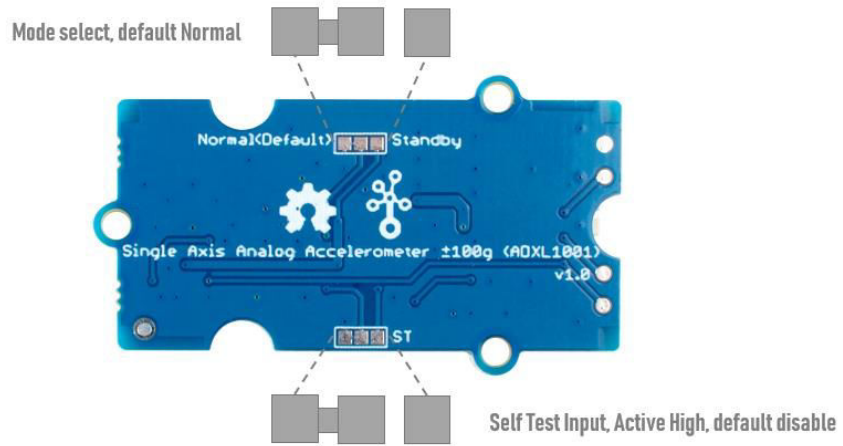


Figure 2. hardware overview back

ECCN/HTS

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