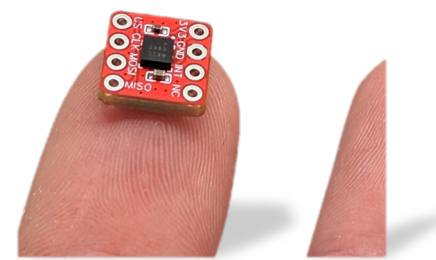


SRX-NANO-SENSORS

Description

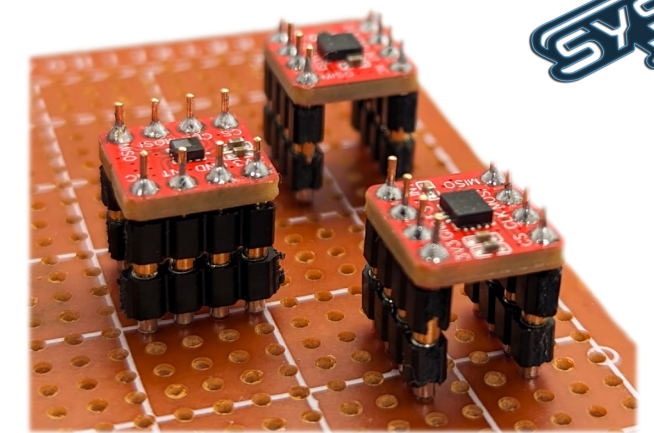
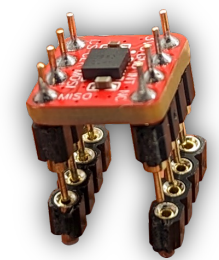
The SRX-NANO-SENSORS are small size, low power and high performance motion measurement units that intends to be integrated in robotic applications development. Their extreme compactness allows easy prototyping on breadboard and integration on host board with direct soldering of back side pads.

Included C++ library allows easy sensors configuration and reading.



Modular placement

High reliability clip-on pins



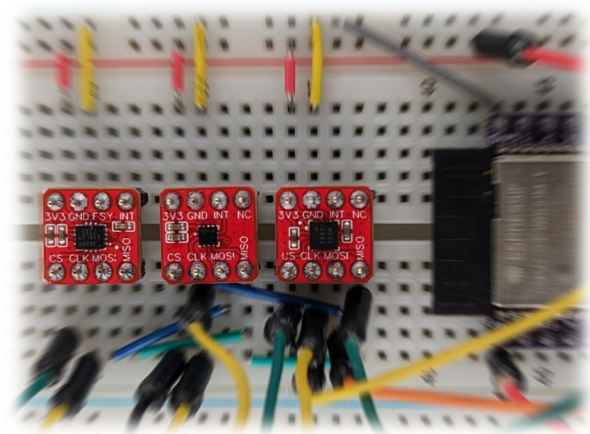
- **6 axis IMU**
- **Barometer**
- **Magnetometer**

Features

- Best in class motion sensors in term of drift, resolution, noise level...
- Extreme compactness
- Dev-board format for easy prototyping with exposed back pads for direct host board solder integration
- Clip-on pins for use on breadboard and modular designs

Sensors characteristics

	Gyrometer	Accelerometer	Barometer	Magnetometer
Range	$\pm 2000 \text{ }^\circ/s$	$\pm 16 \text{ g}$	260 – 1260 hPa	$\pm 8 \text{ Gauss}$
Noise (RMS at default Bandwidth)	0,045 $^\circ/s$	0,85 mg for XY 1,15 mg for Z	0,0087 hPa (0,073m)	0,6 mGauss
Resolution	0,0038 $^\circ/s$	$3,0518 \cdot 10^{-5} \text{ g}$	0,0244 Pa (0,002 m)	0,061 mGauss
In run bias (20°C)	7 – 10 $^\circ$	–	–	–
Polling Frequency (default)	500 Hz (adjustable → 32kHz)	500 Hz (adjustable → 32kHz)	71,4 Hz	100Hz (adjustable → 1000Hz)
Bandwidth (-3dB)	230,7 Hz	230,7 Hz	35,7 Hz	50 Hz



Hardware

Interface

- SPI
- I2C

Supply

- 3,3V

Dimensions

- Length = 10,5 mm
- Height = 10,5 mm
- Width = 1,6 mm

