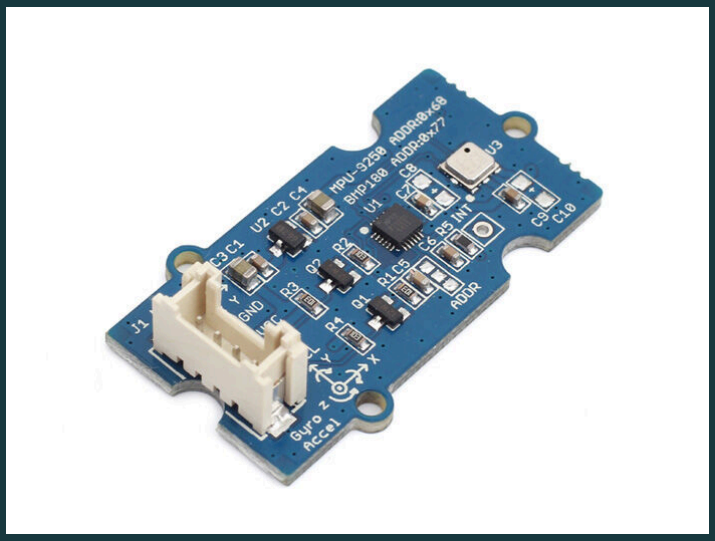
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INDUSTRIAL PRODUCT DATASHEET

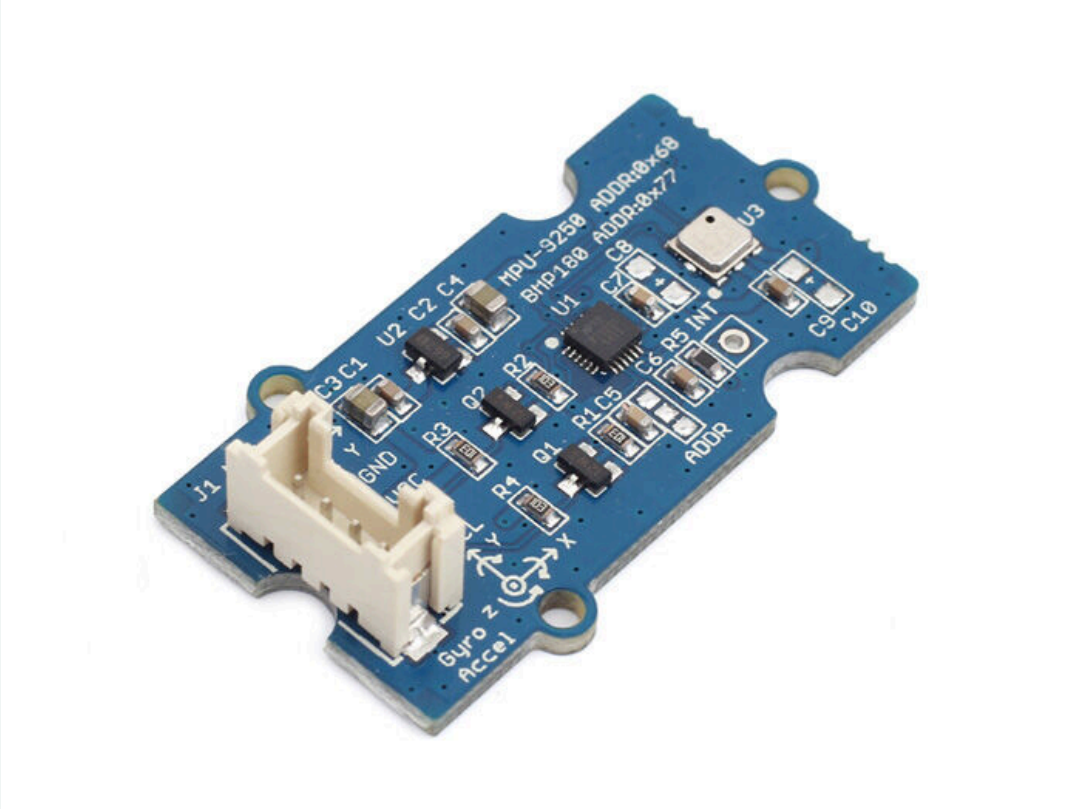
Grove - IMU 10DOF

Grove - IMU 10DOF: a 10DOF IMU module with gyroscope, accelerometer, magnetometer, and barometer.

SKU	UPDATED	PRICE
101020079	2025-09-02 07:18:18	$16.90(Excl. VAT)



Overview



The Grove - IMU 10DOF is a discontinued 10-degree-of-freedom inertial measurement unit based on the MPU-9250 and BMP180, combining a 3-axis gyroscope, accelerometer, magnetometer, and barometer in a standard Grove module. It is suitable for applications such as mobile phones, aircraft, and smart watches.

Key Features

This product is discontinued, for new version Grove - IMU 10 DOF V2.0, please click **here**.

Grove - IMU 10DOF is based on MPU-9250 and BMP180, it combines a 3-axis gyroscope, 3-axis accelerometer, 3-axis magnetometer and barometer in standard Grove module. Total 10 degrees of freedom make it suitable for mobilephone, aircraft, smart watch etc.

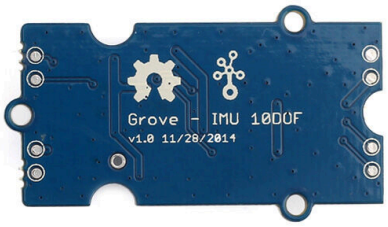
Features:

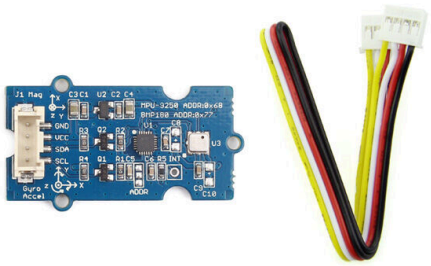
- 10 Degrees of Freedom
- 3-Axis angular rate sensor (gyro) with a sensitivity up to 131 LSB and a full-scale range of ±250, ±500, ±1000, and ±2000dps
- 3-Axis accelerometer with a programmable full scale range of ±2g, ±4g, ±8g and ±16g
- 3-axis compass with a full scale range of ±4800µT
- Wide pressure detecting range of 300~1100hPa(+9000m ~ -500m relating to sea level)

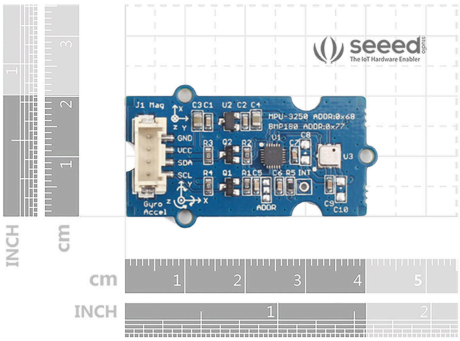
Specification:

- Working Voltage: 5V
- Programmable interrupt
- Low Power
- Control Mode: IIC
- 400kHz Fast Mode I²C serial host interface
- Operating Temperature：-40 ~ +85°C

Product Gallery







Part List

Grove - IMU 10DOF	1

Compliance & Logistics

HSCODE	9031900090

Resource Links

- https://www.seeedstudio.com/Grove-IMU-10DOF-p-2386.html
- Grove - IMU 10DOF v1.0 eagle file
- Grove - IMU 10DOF v1.1 eagle file
- Grove - IMU 10DOF v1.0 schematics pdf file
- Grove - IMU 10DOF v1.1 schematics pdf file
- Grove-IMU_10DOF Library
- BMP180 datasheet
- MPU-9250 datasheet

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com