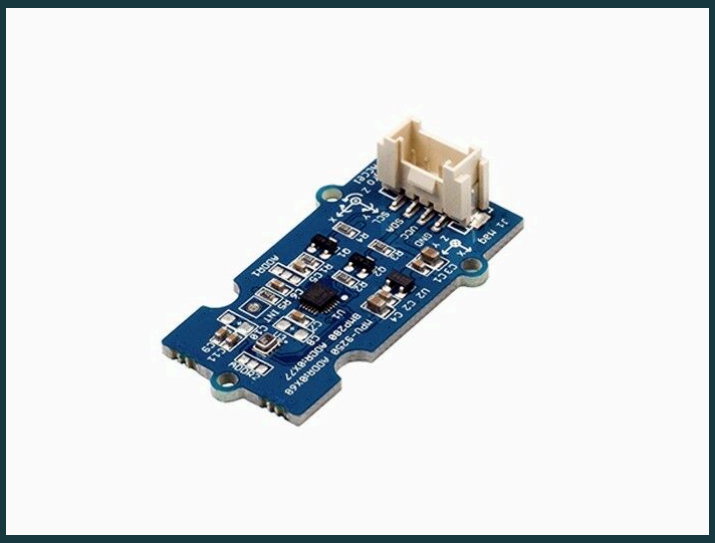
seeed studio

INDUSTRIAL PRODUCT DATASHEET

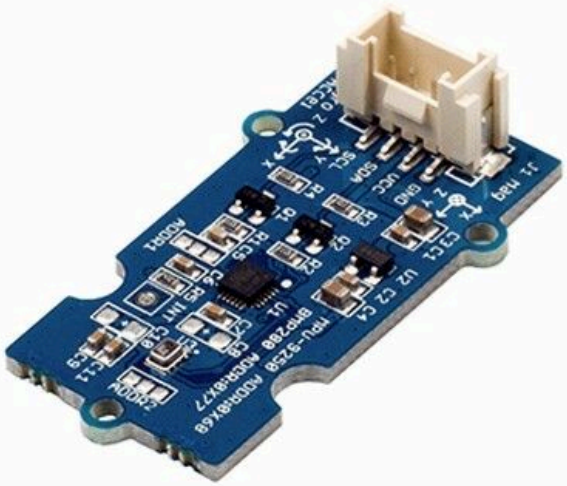
Grove - IMU 10DOF v2.0 (MPU9250)

Compact 10DOF IMU module with gyroscope, accelerometer, magnetometer, temperature, and barometric pressure sensing.

SKU	UPDATED	PRICE
101020252	2025-09-02 07:18:18	$20.30(Excl. VAT)



Overview



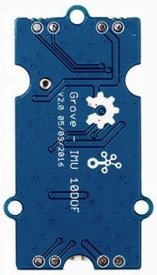
The Grove - IMU 10DOF v2.0 (MPU9250) integrates a 3-axis gyroscope, 3-axis accelerometer, 3-axis magnetometer, temperature sensor, and barometric pressure sensor. It offers programmable ranges for the inertial sensors and provides precise environmental measurements with accuracies of ±1.0°C and ±1.0 hPa.

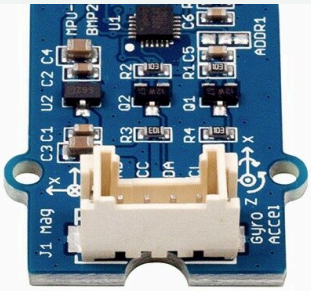
Key Features

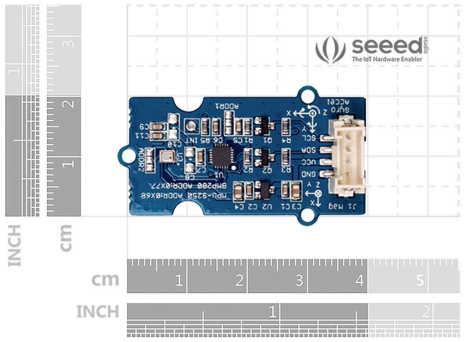
- Digital-output X-, Y-, and Z-Axis angular rate sensors (gyroscopes) with a user-programmable full-scale range of ±250, ±500, ±1000, and ±2000°/sec
- Digital-output 3-Axis accelerometer with a programmable full-scale range of ±2g, ±4g, ±8g, and ±16g
- Digital-output magnetometer with a full-scale range of ±4800uT
- Temperature measurement with ±1.0°C accuracy
- Barometric pressure measurement range 300 - 1100 hPa with ±1.0 hPa accuracy

Product Gallery











Part List

Grove - IMU 10DOF v2.0	1

Compliance & Logistics



HSCODE	9031900090
USHSCODE	9031808085
UPC	841454118718
EUHSCODE	9013101000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/Grove-IMU-10DOF-v2-0.html
- Grove - IMU 10DOF v2 eagle file
- Grove - IMU 10DOF v2 schematics pdf file
- Grove - IMU 10DOF v2 PCB pdf file
- Get library from github
- BMP280 datasheet
- MPU-9250 datasheet

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