MU Sensors



Open-Source Modular Plug & play



Easy - intergration **Bosch/TI Powered**



SKU: SEN0252

Gravity: BMX160+BMP388 10 DOF Sensor

BMX160+BMP388 Low-power consumption and high-precision 10-axis attitude sensor.

- Accelerometer: ±2g/±4g/±8g/±16
- Gyroscope: ±125°/s~2000°/s

BMM350 Triple Axis

■ Working current: 200uA

SKU: SEN0411/SEN0407

LIS331HH Triple Axis

Optional range: ±6g/±12g/±24g

Accelerometer

accelerometer.

■ Resolution: 0.1uT

Magnetometer Sensor

- Geomagnetism: ±1150uT(x-,y-axis) ;±2500uT(z-axis)
- Atmospheric pressure: 300-1250 hPa

SKU: SEN0253

Gravity: BNO055+BMP280 10 DOF IMU AHRS

16-bit gyroscope, 14-bit accelerometer, geomagnetic sensor.

- Accelerometer: ±2g/±4g/±8g/±16
- Gyroscope: ±125°/s~2000°/s
- Geomagnetism: ±1300uT(x-,y-axis) ;±2500uT(z-axis)
- Atmospheric pressure: 300~1100hPa



BMM150 Triple Axis Magnetometer Sensor

Adopting the high-precision geomagnetic sensor BMM150 from Bosch.

- Magnetic force measurement range: $\pm 1300 \mu T (x, y axes) \pm 2047 \mu T (z axis)$
- Resolution: 0.3uT
- Accuracy: 30uT horizontal magnetic field component ±2.5°





SKU: SEN0412/SEN0408

H3LIS200DL Triple Axis Accelerometer

Large-range accelerometers of ±100g and ±200g for high-speed impact detection.

Optional range: ±100g/±200g



LIS2DW12 Triple Axis **Accelerometer**

Built-in algorithms such as free fall detection, direction detection, single/double click detection, motion detection, motion wake-up,

Optional range: ±2g/±4g/±8g/±16g





Accuracy: 30uT horizontal magnetic field component ±2.5°

Range ±6g/±12g/±24g, 16-bit data output

The Bosch BMM350 ultra-low power consump-

■ Magnetic force measurement range: ±2000µT

tion high-precision geomagnetic sensor.





SKU: SEN0371

BMP388 Digital Pressure

High-precision atmospheric pressure sensor based on Bosch Sensortec BMP388

- Measurement range: 300 1250 hPa
- Relative accuracy:
- ±0.08 hPa (equivalent ±0.66m)
- Absolute accuracy: ±0.5 hPa



SKU: SEN0423

BMP390L Digital Barometric Pressure Sensor

Atmospheric pressure sensor with an absolute accuracy of up to 50Pa based on Bosch BMP390L

- Pressure range: 300 1250 hPa
- Relative accuracy:
- ±0.03hPa (equivalent to 25cm)
- Absolute accuracy: ±0.50hPa



SKU: SEN0373

BMX160 9-axis Sensor

9-axis motion sensor based on Bosch BMX160, integrating accelerometer, gyroscope and geomagnetic sensor.

- Acceleration: ±2g/±4g/±8g/±16
- Gyroscope: ±125°/s ~ 2000°/s
- Geomagnetism: ±1150uT (x-, y-axis); ±2500uT (z-axis)



SKU: SEN0374

BNO055 Intelligent 9-axis Sensor

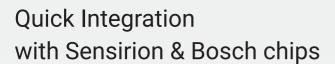
9-axis intelligent motion sensor based on Bosch BNO055 with integrated algorithms.

- Acceleration ranges ±2g/±4g/±8g/±16
- Ranges switchable from ±125°/s~2000°/s
- Magnetic field range typical $\pm 1300 uT(x-,y-axis); \pm 2500 uT(z-axis)$



Environmental Sensors









SKU: SEN0500/SEN0501

SKU: SEN0332/SEN0334



Integrated 5 in 1 sensor of five environmental parameters including temperature and humidity sensor, atmospheric pressure sensor, light sensor and ultraviolet sensor.

SKU: SEN0375/SEN0248

BME680 Environmental Sensor

Quadruple-in-one MEMS environmental

sensor(VOC, temperature, humidity, air

pressure)based on Bosch BME680.







SGP40 Air Quality Sensor



VOC air quality sensor without calibration based on the new generation SGP40 of Sensirion, Switzerland.

- Temperature range: -10°C to 50°C
- humidity range: 0%RH to 90%RH
- VOC index range: 0-500

5 in 1 environmental sensor

Fermion:



SKU: SEN0335



SHT31-F Temperature & Humidity

Based on Sensirion SHT31-F temperature and humidity sensor chip, The chip has IP67 dustproof performance.

■ Temperature: ±0.2°C, Humidity: ±2%RH

Fermion: ENS160+BME280 **Multi-function Environmental** Module

Multi-parameter fused environmental sensor (temperature, humidity, air pressure, altitude, TVOC and eCO2) based on Bosch BME280 and ScioSense ENS160 chips.



SKU: SEN0330

Fermion: SHT30 **Temperature & Humidity Sensor**

Based on Sensirion SHT30 temperature and humidity sensor chip.

■ Temperature: ±0.2°C, Humidity: ±2%RH

SKU: SEN0331

Fermion:SHT31 **Temperature & Humidity Sensor**

Based on Sensirion SHT31 temperature and humidity sensor chip.

■ Temperature: ±0.2°C, Humidity: ±2%RH

SKU: SEN0333



Fermion: SHT35 Digital **Temperature & Humidity Sensor**

Based on Sensirion SHT35 temperature and humidity sensor chip.

■ Temperature: ±0.2°C, Humidity: ±1.5%RH



SKU: SEN0414

Fermion: SHTC3

Temperature & Humidity Sensor

Based on Sensirion SHTC3 temperature and humidity sensor chip

■ Temperature: ±0.2°C, Humidity: ±2%RH

SKU: SEN0428



SHT40 Temperature & Humidity Sensor

Based on Sensirion SHT40 temperature and humidity sensor chip.

■Temperature: ±0.2°C, Humidity: ±1.8%RH



