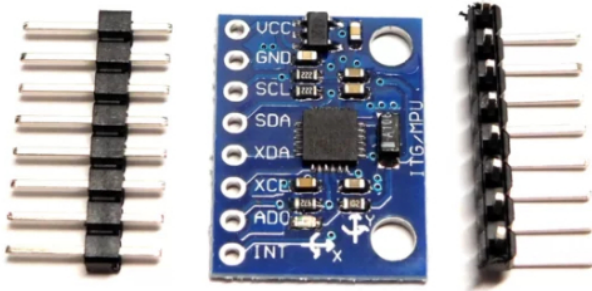




InvenSense MPU-6050 6-Axis Gyro Accelerometer Module

6-axis gyro and accelerometer module that combines two sensors in a single device.

SKU: 26098



Description

The InvenSense MPU-6050 is a 6-axis gyro and accelerometer module that combines two sensors in a single device. The module has a gyroscope that measures angular velocity in three dimensions, and an accelerometer that measures linear acceleration in three dimensions. The MPU-6050 communicates with a microcontroller through an I2C interface and provides high-precision measurements for both angular velocity and linear acceleration. This makes it ideal for a wide range of applications, including motion tracking, gesture recognition, and gaming. The module is widely used in robotics, unmanned aerial vehicles (UAVs), and wearable devices. The MPU-6050 provides accurate and stable measurements, making it a popular choice for many motion-sensing applications.

Specification:

- 16bit ADC, 16-bit data output
- Power Supply: 3-5V (internal LDO)
- Communication: I2C communication protocol standard
- Gyro Range: 250 / 500 / 1000 / 2000 /s
- Acceleration Range: 2 / 4 / 8 / 16g
- Size: 21 x 16 x 3 mm

Application:

- Motion Sensing Games
- Augmented Reality
- EIS (Electronic Image Stabilization)
- "Zero-Touch" Gestures User Interface
- Pedestrian Navigation

Market:

- Smart Phone
- Tablet Device
- Handheld Games
- 3D Remote Controller
- Portable Navigation Devices

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[Data Sheet TDK InvenSense MPU-6050](#)

[Interfacing MPU-6050 and Raspberry Pi](#)