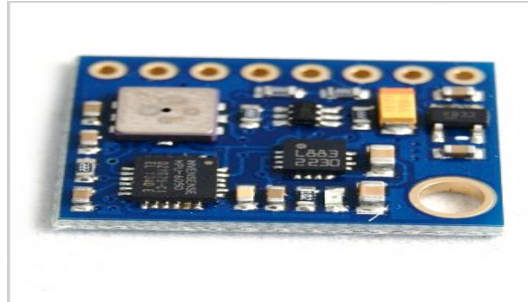


IMU 10 DOF (MPU-6050+HMC5883L+ BMP085) Sensor



Description:

- 10DOF IMU (3-axis gyro + 3-axis accelerometer + barometric pressure sensor), it includes MPU6050 + HMC5883L+ BMP085
- MPU 6050 Motion Sensor module: 3-axis gyroscope, 3-axis accelerometer
- HMC5883L module (three-axis magnetic field module)
- BMP085 barometer pressure sensor
- Power supply: 3v-5V power

PIN CONNECTION

- | | | | |
|-------|----|-----|-----------|
| - Vin | TO | 5V | (Arduino) |
| - GND | TO | GND | (Arduino) |
| - SCL | TO | A5 | (Arduino) |
| - SDA | TO | A4 | (Arduino) |

Arduino code

This is sample code for using the IMU sensor, it uses Kalman filter for MPU6050. it outputs data for MPU6050 (pitch and roll), heading from the compass and altitude from the pressure sensor.

[Click this link you will find the example file and libraries you will need to run the code](#)