

Specifications

- Power : 3.3V~5.5V (internal voltage regulation with low dropout)
- Accelerometer
 - Resolution : 16 bit
 - Measurement range (configurable) : ± 2 , ± 4 , ± 8 , $\pm 16g$
 - Operating current : 450uA
- Gyroscope
 - Resolution : 16 bit
 - Measurement range (configurable) : ± 250 , ± 500 , ± 1000 , $\pm 2000^\circ/\text{sec}$
 - Operating current : 3.2mA
- Compass/Magnetometer
 - Resolution (configurable) : 14 or 16 bit
 - Measurement range : $\pm 4800\mu T$
 - Operating current : 280uA
- Barometric pressure sensor
 - Resolution (configurable) : 16~19 bit
 - Measurement range : 300~1100hPa (altitude : +9000m~-500m)
 - Accuracy : 0.02hPa(0.17m)

Applications

- Quadcopter
- Balancing robots
- Indoor inertial navigation
- Barometric altimeter
- Industry measurement

Interface

PIN NO.	SYMBOL	DESCRIPTION
1	VCC	3.3V~5.5V power supply
2	GND	power ground
3	SDA	I2C data pin
4	SCL	I2C clock pin
5	INT	MPU9255 digital interrupt output
6	FSYNC	MPU9255 vertical sync signal