

## GY-91 10DOF MPU-9250 and BMP280 Multi-Sensor Module

### Description

The module uses combination of Single chip MPU-9250 with built-in 3 axis Gyro, 3axis Accelerometer, digital Compass and BMP280 improved barometric pressure sensor.

The MPU-9250 is the company second generation 9-axis Motion Tracking device for smartphones, tablets, wearable sensors, and other consumer markets.

### Specifications

Sensor Chips: MPU-9250 + BMP280

Interface: standard IIC / SPI communications protocol

Operating Voltage range: 3.0V – 5.0V (on-board low dropout regulator)

Module size 14.3mm \* 20.5mm (More compact than GY-80)

Resolution: 16bit AD converter, 16-bit data output

Gyroscopes range:  $\pm 250, 500, 1000, 2000$  ° / s

Acceleration range:  $\pm 2 \pm 4 \pm 8 \pm 16$ g

Field range:  $\pm 4800$ uT

Pressure range: 300-1100hPa

2.54mm pitch

