

Technical Specifications

Characteristic		Value	Unit
Supply voltage		3.3 – 4.0	VDC
Current consumption		70	mA
Dimensions: Height x Width x Length		8x26x36	mm
Weight		14	g
Specific:			
GYROSCOPES	Measurement range	± 2000 ±34.9	°/s rad/s
	Resolution	0.06	°/S
ACCELEROMETERS	Measurement range	± 4, 8, 16 ± 39.22 – 156.88	g m/s²
	Resolution	0.122	mg
MAGNETOMETERS	Measurement range	± 8.1 ± 810	gauss µT
	Resolution	0.092	μT
Special:		1	
Built-in calibration to eliminate axes misalignment, adjust sensitivity and compensate the measurements due to external temperature changes.		Built in a compact solid body for waterproof applications.	
Kalman filter to estimate absolute 3D orientation.		Robust algorithm against external magne fields.	
Sampling frequency: IkHz Output frequency: Up to 500 Hz		,	.7 degrees RMS .0 degrees RMS

Measured variables:

- 3D Angular Speed (rad/s)
- 3D Acceleration (m/s²)
- 3D Magnetic Field (µT)
- Temperature (°C)

Output:

- Digital: Digitalized signal values at 16 bits.
- Physical: Physical signal values on the corresponding unit of measurement.
- Orientation: Direction Cosine Matrix (DCM) or Quaternions.
 Note: Physical and Orientation data can be sent at the same time.