



Axivity

WAX9

10-Axis Bluetooth Streaming IMU

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Description

The WAX9 is a combination streaming sensor for collecting data in a variety of environments. At the heart of the sensor lies a 3-axis accelerometer, 3-axis gyro, 3-axis magnetometer and a Bluetooth radio. The sensor also features a barometric pressure sensor and temperature sensor. The WAX9 is powered via a rechargeable Li-Polymer battery and charged via a micro USB connector.

Specification

Parameter	Value	Notes
Battery Life Streaming / Standby	10 hours / >6 months	Dependent on sensor settings
Battery Charge time	up to 5hrs max.	Via USB micro, approx 2hrs.
Accelerometer Sensitivity	$\pm 8g$ 3-axis	MEMS technology sensor
Accelerometer Resolution	14-bit (2mg)	At 8g full scale range
Accelerometer Sample Rate	$\leq 200Hz$	Configurable
Gyro Sensitivity	2000 deg/s	
Gyro Resolution	16-bit 70mdeg/s/digit	At 2000 deg/s full scale range
Gyro Sample Rate	$\leq 200Hz$	Configurable
Magnetometer Sensitivity	0.1 μT	
Magnetometer Resolution	16-bit	Digital output
Magnetometer Sample Rate	$\leq 10Hz$	Configurable
Temperature Sensor Range	0 - 65 $^{\circ}C$	0.1 $^{\circ}C$ Resolution
Pressure Sensor	1 Pa resolution	
Enclosure	35.8 x 24.5 x 9.1 (mm)	Wristband available seperately.



Applications

- Data Acquisition
- Activity Monitoring
- Instrumented Environments
- Motion Measurement
- Medical Research
- Digital Interaction