Shimmer3 Wireless Sensor Platform



Aicrocontroller	TI MSP430
A/D Resolution	11 Channels of 12-bit A/D: 7 free for expansion
RAM	16KB
Flash	256KB
Frequency	24MHz
Vide Range Accel.	STMicro LSM303DLHC
Range	±2g, ±4g, ±8g, ±16g
Sensitivity	1000 LSB/g at +/-2g
Numeric Resolution	16-bit
Typical Operating Current	110 µA (Running Mag @ 7.5 Hz & Accel @ 50 Hz)
RMS Noise*	27.5 x 10 ⁻³ m/s ²
Low Noise Accel.	Kionix KXRB5-2042
Range	±2g
Sensitivity	600 ±18 mV/g
Typical Operating Current	500 μA
RMS Noise*	5.09 x 10 ⁻³ m/s ²
Digital Mag	STMicro LSM303DLHC
Range	±1.3; ±1.9; ±2.5; ±4.0; ±4.7; ±5.6; ±8.1 Ga
Sensitivity	1100 LSB/Ga at ±1.3
Numeric Resolution	16-bit
RMS Noise*	0.0081 normalised local flux
Gyro	Invensense MPU9150
Range	±250; ±500; ±1000; ±2000 dps
Sensitivity	131 LSB/dps at ±250
Numeric Resolution	16-bit
Typical Operating Current	3.5 mA
RMS Noise*	0.0481 dps
Pressure Sensor	Bosch BMP180
Range	300 - 1100 hPa
Numeric Resolution	16-bit
Typical Operating Current	1 µA at 1 Hz
RMS Noise (Standard mode)	0.4 m (from Datasheet)
*@ 100Hz Bandwidth	



Dimensions: 51mm x 34mm x 14mm

Improved straps and quick snap clips provide full mobility,

unrestricted movement and comfort for the wearer

Highly flexible and adaptable sensor platform can be

applied to specific end user requirements

Highly accurate and scientifically reliable raw or calibrated data offers complete control over capture and interpretation of signals in

real-time

© Copyright 2016 Shimmer Specifications are subject to change without notice S-S/S3-v1.6



SHIMMER3 ROADMAP	
Shimmer3 Platform	Now Available
Biophysical	ECG, EMG, &
	GSR + Heart Rate: Now Available
Expansions	PROTO3 Mini Expansion board and PROTO3 Deluxe Expansion board: Now Available Strain Guage Amplifier: Now Available
Weight	23.6 Grams

CONTACT US

Shimmer Dublin, Ireland Boston, USA

E: info@ShimmerSensing.com
W: www.ShimmerSensing.com