

Device Specifications

Wrist Module Size	3.15 x 1.66 x 0.815 in.
Wrist Module Weight	3.0 oz.
Finger Sensor Size	0.75 x 0.86 1.09 in.
Finger Sensor Weight	0.4 oz.
Wireless Link	2.4 GHz radio
Data Transmission Range	~ 100 feet (line of sight)
Data Rate	57.6 kbps throughput over the wireless link
Transmission Bandwidth	1 MHz
Batteries (battery life)	Rechargeable lithium polymer (8 hours)
Memory	Stores up to 50 hrs of data

Sensor Specifications

Sensor	Angular Rate	Acceleration	Electromyography
Sensor Type	MEMS gyroscopes	MEMS accelerometers	Snap electrodes
Number of Channels	3 orthogonal channels	3 orthogonal channels	2 differential channels
Input Range	±1200 deg/sec	±5 g	±5 mV
Min. Freq. (3dB)	0 Hz	0 Hz	30 Hz
Max. Freq. (3dB)	15 Hz	15 Hz	1024 Hz
Input Noise	<2.6 deg/sec RMS	<60 mg RMS	<20 μV RMS
CMRR	N/A	N/A	>60 dB
A/D Resolution	12-bit	12-bit	12-bit
Sampling Rates	128 Hz	128 Hz	2048 Hz*
DC Offset Rejection	N/A	N/A	300 mV
Input Impedance	N/A	N/A	>20 Mohm

* Hardware sampled at 2048 Hz, then RMS processed at 128 Hz