



axiamo

motion that matters



Professional multisports motion sensor

Description

The Axiomote X1 is a versatile inertial sensor developed for sports applications. Main features are the measurement of 11 physical dimensions and flexible networking capabilities and its miniature size and weight. It uses Bluetooth 2.3 and Bluetooth Smart (BLE) to wirelessly transfer your data to a smart phone, tablet or other compatible device.

Use Cases

Your measured data can be recorded on the sensor's integrated flash memory and streamed to your mobile device for real time visualization. The Axiomote X1 sensor features flexible raw motion data sensing capabilities:

- ▶ Synchronous sampling from multiple sensor nodes
- ▶ 3D raw data of acceleration, rotation and orientation
- ▶ Temperature and ambient air pressure (altitude over sea level)

A powerful integrated Digital Signal Processor (DSP) enables custom algorithms to be run in real time. Current implementations feature:

- ▶ GCT (ground contact time) measurement for elite sprint training
- ▶ Jump height analysis for Squat Jump training
- ▶ Track cycling sensor for crank force and crank rotation analysis

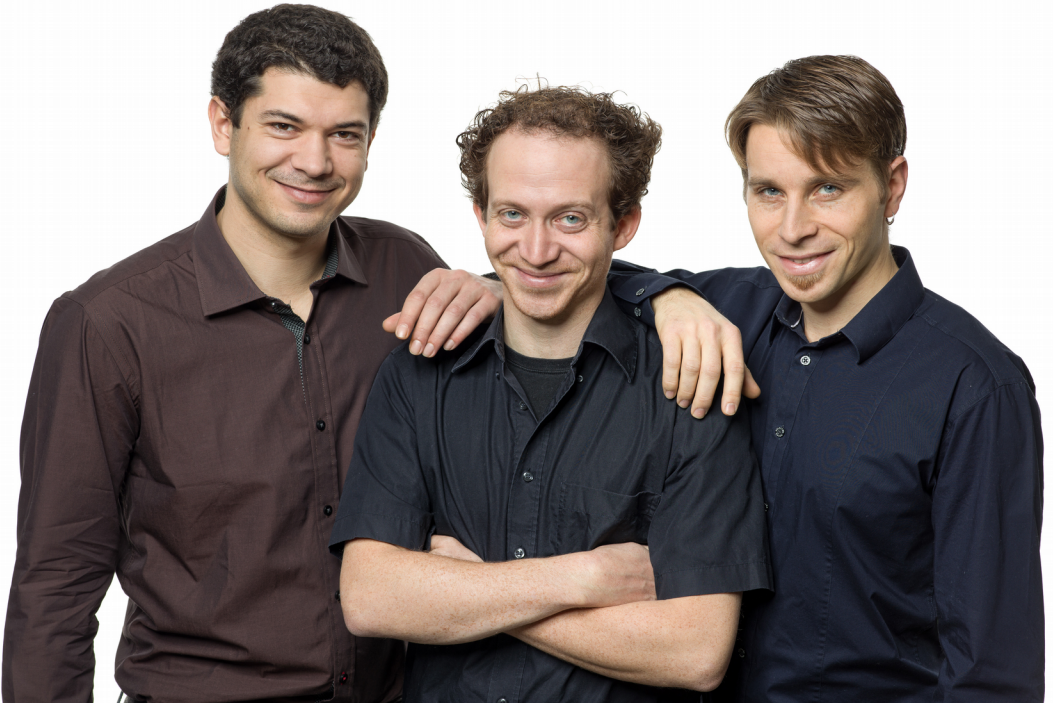


Axiamote X1

Physical	
Size	37mm x 27mm x 8mm
Weight	9g
Sensors	
Acceleration	±16 g Full Scale Range
Gyroscope	±2000 °/s Full Scale Range
Magnetometer	±4800 µT Full Scale Range
Barometer	10 - 2000 mbar, 0.016 mbar Resolution
Temperature	Ambient temperature, 0.1 °C Resolution
Sample rates	up to 4 kHz Raw Data
Interfaces	
Bluetooth	2.1 (BT classic) and 4.0 (BT smart)
USB	2.0 Full Speed
Software Support	
Windows	Windows 7 or better (64bit)
Linux	Ubuntu or Debian with Kernel 2.6 or better
Android	Android 2.3 or better



Team & Contact



Damian Weber

MSc in Engineering

Firmware development
Front end design

Benjamin Habegger

MSc in Engineering

Software architect
Mobile applications

Michael Gasser




MSc in Engineering

Algorithm development
Marketing and sales



Axiamo GmbH

Switzerland Innovation Park
Aarbergstrasse 5
2560 Nidau
Switzerland

 facebook.com/axiamo
 twitter.com/GetAxiamo
 google.com/+Axiamo