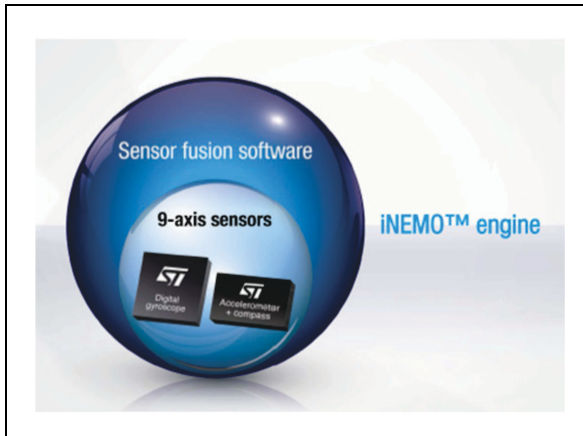


iNEMO engine lite sensor fusion algorithm evaluation source code for iNEMO-M1

Data brief



Description

The iNEMO engine is a new, advanced software engine that fuses accelerometer, gyroscope and magnetometer data to deliver accurate and reliable motion-sensing information that is easy to integrate into smart consumer devices.

The iNEMOEng_M1LI3 sensor fusion evaluation firmware comes with the iNEMO engine. The library can be easily ported to other STM32 hardware platforms.

Features

- Motion tracking accuracy
- Reliable compass heading for accurate navigation
- 7-state extended Kalman filter
- Source code for STM32F103 microcontrollers embedded in iNEMO-M1
- Outputs:
 - Quaternions
 - Heading, pitch, and roll
- Max ODR of 50 Hz
- System requirements:
 - 11 Kbyte Flash memory
- 6 Kbyte RAM (dynamically allocated)

1 Revision history

Table 1. Document revision history

Date	Revision	Changes
28-Jan-2014	1	Initial release.

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