



iNEMOEngine_LI3

iNEMO Engine Lite

Sensor Fusion algorithm demonstration source code for STM32

Data brief

Features

- Accurate motion tracking
- Reliable compass heading for accurate navigation
- 7-state extended Kalman filter
- Source code for STM32F103 microcontrollers
- Outputs:
 - Quaternions
 - Heading, pitch, and roll
- Max ODR of 100 Hz
- System requirements:
 - 7 kbyte Flash memory
 - 5 kbyte RAM (dynamically allocated)



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 iNEMOEngine_LI3 Sensor Fusion demonstration firmware comes with the iNEMO Engine. The library is available from version 2.3.0 of the STEVAL-MKI062V2 iNEMO suite as source code for the on-board STM32F103. The library is compatible with all the STM32 hardware platforms.

1 Revision history

Table 1. Document revision history

Date	Revision	Changes
09-Sep-2011	1	Initial release.

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