



# 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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