

## IAR Systems® Experiment! kits for STM32 microcontrollers

Data brief

### Features

- STM32L1 game controller kit:
  - STM32L152VB ultra-low-power Cortex™ - M3 MCU with 128 Kbytes of Flash memory
  - Game controller joystick
  - 1.8 x 1.6" color LCD
  - 1 User button, 1 Reset button
  - Power and User LEDs
  - 2 UEXT/UXT connector
  - Prototyping area
- STM32L1 magnetometer kit:
  - STM32L152VB ultra-low-power Cortex™ - M3 MCU with 128 Kbytes of Flash memory
  - MAG3110 3-axis magnetometer
  - Monochrome 84x48 LCD
  - 1 User button, 1 Reset button
  - Power and User LEDs
  - 2 UEXT/UXT connector
  - Prototyping area
- STM32F4 game controller kit:
  - STM32F429II high-performance Cortex™ - M4 MCU with 2 Mbytes of Flash memory
  - Game controller joystick
  - 1.8 x 1.6" color LCD
  - 1 User button, 1 Reset button
  - Power and User LEDs
  - 2 UEXT/UXT connectors
  - Prototyping area



### Description

IAR Systems' Experiment! kits are aimed at creative evaluation for a low price. You can use the kits to evaluate IAR Systems' software and the included microcontroller, as well as design, start develop, integrate and test your applications.

Each Experiment! Kit is a combination of a general purpose evaluation board with an STM32 MCU equipped with a number of UEXT/UXT connectors. These connectors support three serial communication interfaces (I2C, SPI and RS232) to connect to a wide variety of modules. Each kit includes one or more modules. Other modules are available at Olimex © website, [www.olimex.com](http://www.olimex.com).

The kits include a size-limited license of the powerful toolchain IAR Embedded Workbench. All kits can be used with IAR I-Jet as well as other JTAG probes, such as the ST-LINK/V2.

Software, examples, projects and guides can be downloaded at the IAR web site, [www.iar.com](http://www.iar.com).

## 1 Ordering information

IAR Experiment! kits can be ordered from IAR or from your nearest ST distributor or sales office.

**Table 1. ST order codes**

| Order code     | Description                 |
|----------------|-----------------------------|
| STM32L1-GAME   | STM32L1 game controller kit |
| STM32L1-MAGNET | STM32L1 magnetometer kit    |
| STM32F4-GAME   | STM32F4 game controller kit |

For more information and complete documentation, please refer to the IAR web site, [www.iar.com](http://www.iar.com) or the STMicroelectronics web site, [www.st.com](http://www.st.com).

## 2 Revision history

**Table 2. Document revision history**

| Date        | Revision | Changes          |
|-------------|----------|------------------|
| 18-Nov-2013 | 1        | Initial version. |

**Please Read Carefully:**

Information in this document is provided solely in connection with ST products. STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, modifications or improvements, to this document, and the products and services described herein at any time, without notice.

All ST products are sold pursuant to ST's terms and conditions of sale.

Purchasers are solely responsible for the choice, selection and use of the ST products and services described herein, and ST assumes no liability whatsoever relating to the choice, selection or use of the ST products and services described herein.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted under this document. If any part of this document refers to any third party products or services it shall not be deemed a license grant by ST for the use of such third party products or services, or any intellectual property contained therein or considered as a warranty covering the use in any manner whatsoever of such third party products or services or any intellectual property contained therein.

**UNLESS OTHERWISE SET FORTH IN ST'S TERMS AND CONDITIONS OF SALE ST DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE USE AND/OR SALE OF ST PRODUCTS INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION), OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.**

**ST PRODUCTS ARE NOT DESIGNED OR AUTHORIZED FOR USE IN: (A) SAFETY CRITICAL APPLICATIONS SUCH AS LIFE SUPPORTING, ACTIVE IMPLANTED DEVICES OR SYSTEMS WITH PRODUCT FUNCTIONAL SAFETY REQUIREMENTS; (B) AERONAUTIC APPLICATIONS; (C) AUTOMOTIVE APPLICATIONS OR ENVIRONMENTS, AND/OR (D) AEROSPACE APPLICATIONS OR ENVIRONMENTS. WHERE ST PRODUCTS ARE NOT DESIGNED FOR SUCH USE, THE PURCHASER SHALL USE PRODUCTS AT PURCHASER'S SOLE RISK, EVEN IF ST HAS BEEN INFORMED IN WRITING OF SUCH USAGE, UNLESS A PRODUCT IS EXPRESSLY DESIGNATED BY ST AS BEING INTENDED FOR "AUTOMOTIVE, AUTOMOTIVE SAFETY OR MEDICAL" INDUSTRY DOMAINS ACCORDING TO ST PRODUCT DESIGN SPECIFICATIONS. PRODUCTS FORMALLY ESCC, QML OR JAN QUALIFIED ARE DEEMED SUITABLE FOR USE IN AEROSPACE BY THE CORRESPONDING GOVERNMENTAL AGENCY.**

Resale of ST products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by ST for the ST product or service described herein and shall not create or extend in any manner whatsoever, any liability of ST.

ST and the ST logo are trademarks or registered trademarks of ST in various countries.

Information in this document supersedes and replaces all information previously supplied.

The ST logo is a registered trademark of STMicroelectronics. All other names are the property of their respective owners.

© 2013 STMicroelectronics - All rights reserved

STMicroelectronics group of companies

Australia - Belgium - Brazil - Canada - China - Czech Republic - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan - Malaysia - Malta - Morocco - Philippines - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States of America

[www.st.com](http://www.st.com)

