STM3210C-SK/IAR

IAR™ starter kit for ST ARM core-based microcontrollers

Data brief

Features

- The IAR Embedded WorkBench® for ARM (EWARM) software package with:
  - KickStart™ C/C++ compiler for output of code up to 32 Kbytes
  - VisualSTATE® code generator, 20-state version
  - C-SPY® high-level language debugger
  - Editor, linker and librarian tools
- Embedded J-Link in-circuit debugger/ programmer with USB interface to host PC and 20-pin JTAG application interface
- Full-featured KickStart development board with target microcontroller

Description

The IAR KickStart Kit™ is a complete, cost-effective solution for starting application development and evaluating the STMicroelectronics STM32F105/107 ARM core-based microcontrollers.

The STM3210C-SK/IAR is a KickStart kit providing all the hardware and software you need to start developing applications including the KickStart development board with target microcontroller, the IAR J-Link in-circuit debugger/programmer (USB/JTAG) and IAR Embedded WorkBench for ARM (EWARM) integrated development environment with the KickStart edition of the IAR C/C++ compiler (output code up to 32 Kbytes), built-in Flash loader and sample projects for all device peripherals.

IAR KickStart kits are available for a full range of ST ARM core-based microcontrollers.

Starter kit architecture

The **IAR development software** is a suite of software tools for all phases of application development that includes:

- **IAR Embedded WorkBench® for ARM** integrated development environment with the KickStart 32KB C/C++ compiler to build the application and the C-SPY® debugger for debugging the application while it runs on your microcontroller.
- **IAR VisualSTATE® 20-state version** of IAR's graphical design environment with C/C++ code generator for developing application code based on machine states.
- **J-Link** in-circuit debugger/programmer (USB/JTAG) which integrates fully with EWARM, allowing you to download the application to your target and debug it while it runs on your ST ARM core-based microcontroller. J-Link is embedded on the KickStart development board in the STM3210C starter kit.
- **KickStart development board** that provides a full range of features to help developers evaluate and start developing applications for the included STM32F107VCTx microcontroller. The board is powered from the J-Link's USB connection with the host PC. The STM3210C KickStart development board key features include:
  - MEMS accelerometer
  - Embedded J-Link
  - SD/MMC connector
  - 20-pin JTAG connector
  - 20-pin trace tool connector
  - USB On-The-Go (OTG host) connector
  - Power supply from USB connection
  - 2 USART connectors
  - SPI
  - I^2C
  - CAN connector
  - Ethernet connector
  - 4 user LEDs
  - Graphic LCD display
  - Potentiometer connected to ADC
  - 3 user, tamper, wake-up push buttons
  - Reset button
  - Stepper motor

Ordering information

IAR KickStart kits can be ordered from IAR or from your nearest ST distributor or sales office for STM32 connectivity line microcontrollers (ST order code: **STM3210C-SK/IAR)**.

For more information and complete documentation, please refer to the IAR web site or the STMicroelectronics microcontroller support site on *www.st.com*.

Revision history

Table 1. Document revision history

Date	Revision	Changes
15-Mar-2011	1	Initial release.

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.

UNLESS EXPRESSLY APPROVED IN WRITING BY AN AUTHORIZED ST REPRESENTATIVE, ST PRODUCTS ARE NOT RECOMMENDED, AUTHORIZED OR WARRANTED FOR USE IN MILITARY, AIR CRAFT, SPACE, LIFE SAVING, OR LIFE SUSTAINING APPLICATIONS, NOR IN PRODUCTS OR SYSTEMS WHERE FAILURE OR MALFUNCTION MAY RESULT IN PERSONAL INJURY, DEATH, OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE. ST PRODUCTS WHICH ARE NOT SPECIFIED AS "AUTOMOTIVE GRADE" MAY ONLY BE USED IN AUTOMOTIVE APPLICATIONS AT USER’S OWN RISK.

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.

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