



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 STM32F101/102/103 ARM core-based microcontrollers.

The STM3210E-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.
- **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 STM3210E starter kit.
- **KickStart development board** that provides a full range of features to help developers evaluate and start developing applications for the included STM32F103ZETx microcontroller. The board is powered from the J-Link's USB connection with the host PC. The STM3210E KickStart development board key features include:
 - Embedded J-Link
 - 20-pin JTAG connector
 - 20-pin trace tool connector
 - SD/MMC connector
 - Power supply from USB connection
 - MEMS accelerometer
 - 2 USART connectors
 - SPI
 - I²C
 - USB connector
 - 4 user LEDs
 - Graphic LCD display
 - Potentiometer connected to ADC
 - 3 user, tamper, wake-up push buttons
 - Reset button
 - Wrap area
 - Stepper motor

Ordering information

IAR KickStart kits can be ordered from IAR or from your nearest ST distributor or sales office for STM32 performance and access line microcontrollers with up to 512K Flash (ST order code: **STM3210E-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.

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