



# 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<sup>2</sup>C
  - 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](http://www.st.com).

## Revision history

**Table 1. Document revision history**

<b>Date</b>	<b>Revision</b>	<b>Changes</b>
15-Mar-2011	1	Initial release.

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