



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
 - I²C
 - 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. |

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