



STM32-SK/IAR STR91X-SK/IAR, STR7-SK/IAR

IAR™ starter kits for ST ARM core-based microcontrollers

Data Brief

Features

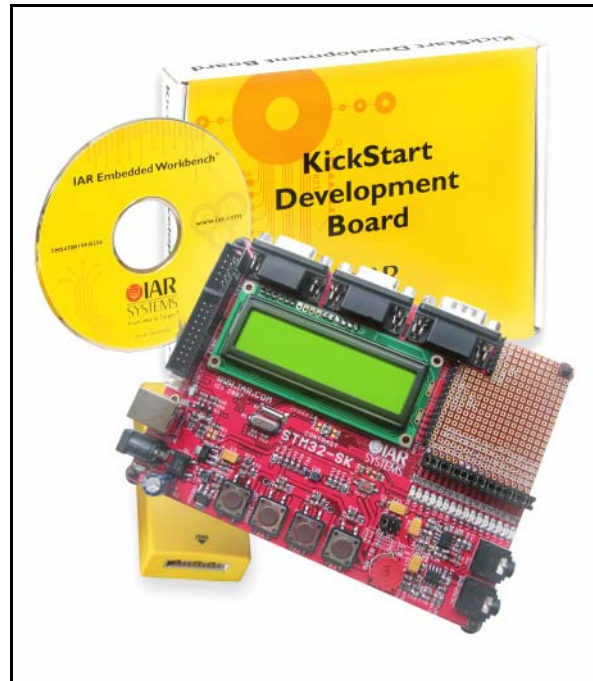
- The IAR Embedded WorkBench™ for ARM® (EWARM) software package with:
 - KickStart™ C/C++ compiler for output of code up to 32 Kbytes
 - VisualState™ code generator, 20-state version
 - C-SPY high-level language debugger
 - Editor, linker and librarian tools
- J-Link in-circuit debugger/programmer with USB interface to host PC and 20-pin JTAG application interface
- Full-featured KickStart™ development board with target microcontroller. On-board features are listed in [Table 1](#).

Description

The **IAR KickStart kits** are complete, cost-effective solutions for starting application development and evaluating STMicroelectronics' ARM core-based microcontrollers.

The KickStart kit's come with all the hardware and software you need to start developing applications for the STM32 ARM Cortex™-M3 core-based microcontrollers, 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 provide evaluation and development support for a full range of ST ARM core-based microcontrollers.



Starter kit architecture

- **IAR development software**– 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) 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.
- **KickStart development board**– evaluation board that provides a full range of features to help developers evaluate and start developing applications for the included microcontroller. The board is powered from the J-Link’s USB connection with the host PC.

Table 1. KickStart development board key features

Feature	Starter kit						
	STM32F10xB kit	STR91xF kit	STR75xF kit	STR731F kit	STR730F kit	STR712F kit	STR711F kit
Included microcontroller	STM32F103B	STR912FW4	STR750FV2	STR731FV2	STR730FZ2	STR712FR2	STR711FR2
20-pin JTAG connector	Yes	Yes	Yes	Yes	Yes	Yes	Yes
38-pin trace tool connector	N/A	Yes	N/A	N/A	N/A	N/A	N/A
Power supply from USB connection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Backup power supply	No	3V button battery	No	No	N/A	N/A	N/A
USART connector(s)	2	3	3	2	4	2	2
SPI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
I ² C	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CAN connector	Yes	Yes	Yes	No	Yes	Yes	No
USB connector	Yes	Yes	Yes	Yes	No	No	Yes
Ethernet connector	N/A	Yes	N/A	N/A	N/A	N/A	N/A

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Feature	Starter kit						
	STM32F10xB kit	STR91xF kit	STR75xF kit	STR731F kit	STR730F kit	STR712F kit	STR711F kit
User LEDs	16 (simple LED)	16 (simple LED)	16 (simple LED)	2 (simple LED)	16 (simple LED)	2 (simple LED)	2 (simple LED)
LCD display	Yes (2x16)	Yes (2x16)	Yes (2x16)	Yes (2x16)	Yes (2x16)	No	No
SD/MMC connector	Yes	Yes	Yes	No	No	No	No
Potentiometer connected to ADC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User push button(s)	3	2	4	2	4	2	2
Reset button	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wrap area	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ADC and PWM support on headers	No	Yes	Yes	No	No	No	No
Audio record and playback circuit	Yes	No	No	No	No	No	No

Ordering information

IAR KickStart kits can be ordered from IAR or from your nearest ST distributor or sales office. Kits are currently available for:

- STM32F10xB microcontrollers (ST order code: **STM3210B-SK/IAR**)
- STR91xF microcontrollers (ST order code: **STR91X-SK/IAR**)
- STR75xF microcontrollers (ST order code: **STR750-SK/IAR**)
- STR731F microcontrollers (ST order code: **STR731-SK/IAR**)
- STR730F microcontrollers (ST order code: **STR730-SK/IAR**)
- STR712F microcontrollers (ST order code: **STR712-SK/IAR**)
- STR711F microcontrollers (ST order code: **STR711-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 2. Document revision history

Date	Revision	Changes
1-Apr-2005	1	Initial release.
27-Sep-2005	2	Added STR730-SK/IAR and table of on-board features.
7-Jun-2006	3	Added STR91X-SK/IAR and STR731-SK/IAR and key features.
4-Oct-2006	4	Added STR750-SK/IAR and key features.
4-Oct-2007	5	Modified document title. Added STM3210B-SK/IAR and key features.

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