



# 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.

### Description

The IAR KickStart Kits™ are complete, cost-effective solutions for starting application development and evaluating the STMicroelectronics STR91x, STR75x, STR73x and STR71x ARM core-based microcontrollers.

The KickStart kits come with 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.
- KickStart development 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				
	STR91X-SK/IAR	STR750-SK/IAR	STR731-SK/IAR	STR712-SK/IAR	STR711-SK/IAR
Included microcontroller	STR912FAW4	STR750FV2	STR731FV2	STR712FR2	STR711FR2
J-Link	Standalone	Standalone	Standalone	Standalone	Standalone
20-pin JTAG connector	Yes	Yes	Yes	Yes	Yes
Trace tool connector	38-pin	N/A	N/A	N/A	N/A
Power supply from USB connection	Yes	Yes	Yes	Yes	Yes
Backup power supply	3V button battery	No	No	No	No
USART connector(s)	3	3	4	2	2
SPI	Yes	Yes	Yes	Yes	Yes
I <sup>2</sup> C	Yes	Yes	Yes	Yes	Yes
CAN connector	Yes	Yes	No	Yes	No
USB connector	Host	Host	Host	No	Host
Ethernet connector	Yes	N/A	N/A	N/A	N/A
User LEDs	16	16	16	2	2
LCD display	Yes (2x16)	Yes (2x16)	Yes (2x16)	No	No
SD/MMC connector	Yes	Yes	No	No	No
Potentiometer connected to ADC	Yes	Yes	Yes	Yes	Yes

Table 1. KickStart development board key features (continued)

Feature	Starter kit				
	STR91X-SK/IAR	STR750-SK/IAR	STR731-SK/IAR	STR712-SK/IAR	STR711-SK/IAR
User, tamper, wake-up push button(s)	3	5	5	3	3
Reset button	Yes	Yes	Yes	Yes	Yes
Wrap area	Yes	Yes	Yes	Yes	Yes

## Ordering information

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

- STR91xF microcontrollers (ST order code: **STR91X-SK/IAR**)
- STR75xF microcontrollers (ST order code: **STR750-SK/IAR**)
- STR73xF microcontrollers (ST order code: **STR731-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](http://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.
17-Oct-2008	6	Added STM3210E-SK/IAR and key features.
18-Jun-2009	7	Added STM3210C-SK/IAR and key features. Removed STM3210B-SK/IAR and key features.
15-Mar-2011	8	Modified document title. Removed STM3210C-SK/IAR, STM3210E-SK/IAR and key features.

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