STR91X-SK/KEI, STR7xx-SK/KEIL

Keil starter kits for STR7 and STR9

Data Brief

The **Keil starter kits** are complete solutions for starting application development and evaluating STMicroelectronic's families of ARM® core-based microcontrollers.

They come with all the hardware and software you need to start developing applications for the STR7 ARM7TDMI™ and STR9 ARM966E™ core-based microcontrollers. The kits come complete with evaluation board and target microcontroller, the *Ulink™* USB-to-JTAG in-circuit debugger/programmer Keil's *uVision3* integrated dev-elopment environment for ARM and the 16KB code-size limited version of the ARM RealView Compilation Tools.

Starter kit architecture

Ulink™– USB-to-JTAG in-circuit debugger/programmer integrates fully with *uVision3*, allowing users to download the application to the target and debug it while it runs on the ST ARM core-based microcontroller on the evaluation board.

Evaluation **board**– an application board that provides a full range of features (I/Os, ADC, UART, SPI, USB...) to help users evaluate and start developing applications for the included microcontroller.

Keil development **software**– a suite of software tools for developing and debugging applications for STR7 and STR9 including:

uVision3 integrated development environment integrating the ARM RealView Compilation Tools and Keil's debugging software so that users can quickly and easily develop and debug their applications while they run on a target microcontroller.

ARM RealView Compilation Tools (RVCT) 16K code-size limited version of the optimizing C/C++ compiler for ARM™ core-based microcontrollers.

Starter kit key features

Ulink:

■ USB interface to the host PC

■ 20-pin JTAG application interface

■ Supports ARM7TDMI™ and ARM966E™ core-based microcontrollers

Evaluation board:

■ Keil evaluation boards are available for STR710F, STR730F and STR91xF microcontrollers. Key features for these boards are summarized in *Table 1*:

Table 1.   Keil evaluation board key features

Feature	Starter Kit			
	STR91X-SK/KEI	STR750-SK/KEIL	STR730 starter kit[1]	STR710 starter kit[1]
Included microcontroller	STR912FW4	STR750FV2	STR730FZ2	STR710FZ2
20-pin JTAG interface connector	Yes	Yes	Yes	Yes
38-pin trace tool connector	Yes (footprint)	N/A	N/A	N/A
External power supply included	No	No	No (7-9V DC)	No (7-9V DC)
Power supply from USB	Yes	Yes	No	No
UART connector(s)	2	2	4	2
SPI	Yes	Yes	Yes	Yes
I^2C	Yes	Yes	Yes	No
CAN connector	Yes	Yes	Yes	Yes
USB connector	Yes	Yes	No	Yes
Ethernet connector	Yes	No	No	No
User LEDs	8 (Simple LEDs)	8 (Simple LEDs)	2 (7 segment LEDs)	8 (Simple LEDs)
LCD display	Yes (2x16)	Yes (2x16)	No	No
SD/MMC card connector	Yes	Yes	No	No
Potentiometer connected to ADC	Yes	Yes	Yes	Yes
User push button(s)	2	2	No	No
Reset button	Yes	Yes	Yes	Yes
Wrap area	Yes	Yes	Yes	No

1 For information about ordering the STR710 and STR730 starter kits, refer to www.keil.com.

Software CD with:

uVision3 for ARM

- RealView Compilation Tools (16KB code-size limited version of the ARM C/C++ compiler)
- Keil full-featured debug interface with project manager, editor and built-in flash programming

Ordering information

Keil starter kits can be ordered from Keil and associated distributors and sales offices. The Keil starter kits for STR750xF (ST order code: **STR750-SK/KEIL**) and STR91xF (ST order code: **STR91X-SK/KEI**) is also available from STMicroelectronics and ST distributors.

For more information and documentation, please refer to *www.keil.com* or the STMicroelectronics microcontroller support site, *www.st.com/mcu*.

Revision history

Date	Revision	Changes
14-Jun-2006	1	Initial release.
4-Oct-2006	2	Added STR750-SK/KEIL and product characteristics.

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