

STM32-SK/KEIL STR91X-SK/KEI, STR7-SK/KEIL

Keil[™] starter kits for ST ARM core-based microcontrollers

Data Brief

Features

- The ARM[®] RealView[™] Microcontroller Development Kit complete development software package with:
 - µVision3[™] integrated development environment for application programming and debugging
 - ARM RealView Compilation Tools C/C++ compilation tools for output of code up to 16 Kbytes
 - RTX real-time kernel, a multi-tasking operating system for embedded applications
- ULINK[™] in-circuit debugger/programmer with USB interface to host PC and 20-pin JTAG application interface
- Full-featured Keil evaluation board with target microcontroller. On-board features are listed in Table 1.

Description

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

They come with all the hardware and software you need to start developing applications for the STM32, STR9 and STR7 ARM core-based families of microcontrollers. The kits come complete with Keil's uVision3 integrated development environment for ARM and the 16 Kbyte code-size limited version of the ARM RealView Compilation Tools, a full-featured evaluation board (including USB, USART, SPI, ADC) and target microcontroller, with the ULINK (USB/JTAG) in-circuit debugger/programmer.

Keil starter kits are available for a full range of ST ARM core-based microcontrollers.

For further information contact your local STMicroelectronics sales office.



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Starter kit architecture

Keil development software is a suite of software development tools for creating and debugging microcontroller applications that includes:

- **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.
- ULINK[™] USB/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.
- Keil evaluation board an application board that provides a full range of features to help users evaluate and start developing applications for the included microcontroller.

Feature	Starter kit					
reature	STM32F10xB kit	STR91xF kit	STR75xF kit	STR73xF kit	STR71xF kit	
Included microcontroller	STM32F103B	STR912FW4	STR750FV2	STR730FZ2	STR710FZ2	
20-pin JTAG connector	Yes	Yes	Yes	Yes	Yes	
38-pin trace tool connector	NA	Yes (footprint)	N/A	N/A	N/A	
External power supply included	No	No	No	No (7-9V DC)	No (7-9V DC)	
Power supply from USB	Yes	Yes	Yes	No	No	
USART connector(s)	2	2	2	4	2	
SPI	Yes	Yes	Yes	Yes	Yes	
l ² C	Yes	Yes	Yes	Yes	No	
CAN connector	Yes	Yes	Yes	Yes	Yes	
USB connector	Yes	Yes	Yes	No	Yes	
Ethernet connector	No	Yes	No	No	No	
User LEDs	16 (simple LED)	8 (simple LED)	8 (simple LED)	2 (7 segment LED)	8 (simple LED)	
LCD display	Yes (2x16)	Yes (2x16	Yes (2x16	No	No	
SD/MMC card connector	Yes	Yes	Yes	No	No	
Potentiometer connected to ADC	Yes	Yes	Yes	Yes	Yes	
User push button(s)	2	2	2	No	No	
Reset button	Yes	Yes	Yes	Yes	Yes	
Wrap area	Yes	Yes	Yes	Yes	No	

Table 1. Evaluation board key features



Ordering information

Starter kits can be ordered from Keil and associated distributors and sales offices. The following Keil starter kits are also available from STMicroelectronics and ST distributors:

- Starter kit for STM32F10xB (ST order code: STM3210B-SK/KEIL)
- Starter kit for STR91xF (ST order code: STR91X-SK/KEI)
- Starter kit for STR750xF (ST order code: STR750-SK/KEIL)

For more information and documentation, please refer to the Keil web site or the STMicroelectronics microcontroller support site at www.st.com.

Revision history

Date	Revision	Changes
14-Jun-2007	1	Initial release.
4-Oct-2006	2	Added STR750-SK/KEIL and product characteristics
4-Oct-2007 3		Modified document title. Added STM3210B-SK/KEIL and product characteristics

Table 2. Document revision history



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