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STM32-SK/HIT STR91X-SK/HIT, STR7-SK/HIT

Hitex starter kits for ST ARM core-based microcontrollers

Data brief

Features

- Hitex Development Tools[®] software toolset for ARM[®] devices, with:
 - HiTOP integrated development environment (IDE) for application programming and debugging
 - Tasking VX C/C++ compiler (STM32 kits), or GNU C/C++ compiler (STR9 and STR7 kits)
- In-circuit debugger/programmer with USB interface to host PC and industry-standard JTAG interface to the target device
- Full-featured Hitex evaluation board with target microcontroller. On-board features are listed in [Table 1: Hitex evaluation board key features](#).



Description

The **Hitex starter kits** are complete, full-featured solutions for starting application development and evaluating the features of the STMicroelectronics ARM[®] core-based microcontrollers. They come with all the hardware and software that developers need to start developing applications for STM32, STR9 and STR7 devices, including full-featured evaluation board, target microcontroller, in-circuit debugger/programmer (USB/JTAG) and the HiTOP development software with C/C++ toolset.

Starter kit architecture

Hitex development software provides a complete set of software tools for creating and debugging microcontroller applications; it includes **HiTOP**.

HiTOP

Hitex's integrated development environment drives the hardware and offers a full range of project management, source-code editing and debugging features from an intuitive graphical interface.

HiTOP with Tasking VX C/C++ compiler delivered in the STM32 kits has no code-size limitation when used with the included STM32-PerformanceStick and STM32-PerfStick-2. HiTOP in STR9 and STR7 kits allows debugging of applications up to 16 Kbytes in size.

HiTOP drives a range of in-circuit debugging / programming tools including Tantino and Tanto, for STR7/9 and Tanto Port Trace for STR9 MCUs with Embedded Trace Macrocell.

Starter kits include complete C/C++ toolsets for compiling application source files. The STM32 starter kits include the Tasking VX C/C++ compiler. STR9 and STR7 kits come with unlimited GNU C/C++ compiler toolset. For more information about HiTOP downloads and updates, refer to the Hitex website.

Hardware interface

The STM32 kits include a STICK which performs integrated debugging and programming of the STM32 Performance and Access line microcontrollers via a dedicated USB interface.

- The STM32 kit with a 128 Kbyte Flash microcontroller includes an STM32-PerformanceStick.
- The STM32 kit with a 512 Kbyte Flash microcontroller includes an STM32-PerfStick-2.

The STR9 and STR7 kits include the Tantino in-circuit debugging and programming tool featuring a USB host interface and industry standard JTAG application board interface.

Hitex evaluation board

Full-featured evaluation boards with target microcontrollers are designed for quick and easy evaluation of a complete range of microcontroller-specific features such as Ethernet, USB, CAN, UART, I²C, SPI, and ADC.

A power supply is included.

Table 1. Hitex evaluation board key features

Feature	Starter kit					
	STM3210E-SK/HIT	STM3210B-SK/HIT	STR91X-SK/HIT	STR75xF ⁽¹⁾	STR73xF ⁽¹⁾	STR71xF ⁽¹⁾
Included ST microcontroller	STM32F103E	STM32F103B	STR912FW4	STR750FV2	STR730FZ2	STR710FZ2
20-pin JTAG interface connector	N/A	N/A	Yes	Yes	Yes	Yes
38-pin trace tool connector	N/A	N/A	Yes (footprint only)	N/A	N/A	N/A
External power supply included	No	No	Yes	Yes	Yes	Yes
Backup power supply	3V button battery	3V button battery	3V button battery	N/A	N/A	N/A
UART connector(s)	1	1	2	2	4	2
SPI	No	Yes	Yes	Yes	Yes	Yes
I ² C	No	Yes	Yes	Yes	Yes	No
CAN connector	Yes	Yes	Yes	Yes	Yes	Yes
USB connector	Yes	Yes	Yes	Yes	No	Yes
Ethernet connector	N/A	N/A	Yes	N/A	N/A	N/A
User LEDs	2 (Simple LED)	3 (Simple LED)	2 (7 segment LED)	2 (7 segment LED)	2 (7 segment LED)	8 (Simple LED)
LCD display	Yes	No	Footprint	Footprint	No	No
SD/MMC connector	No	No	Yes	Yes	No	No
ADC	Yes	Yes	Yes	Yes	Yes	Yes
User push button(s)	No	No	5	3	No	No
Reset button	No	No	Yes	Yes	Yes	Yes
Wrap area	Yes	Yes	Yes	No	Yes	No
Motor control connector	No	No	34-pin header	34-pin header	No	No
Extension board connectors	One 80-pin connector	One 80-pin connector	Two 50-pin headers	No	No	No
DAC	Yes	No	No	No	No	No
NAND Flash	Yes	No	No	No	No	No
IrDA	Yes	No	No	No	No	No

1. See www.hitex.com for ordering information.

Ordering information

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

- STM32 Performance and Access line microcontrollers with 512 Kbytes Flash (ST order code: **STM3210E-SK/HIT**)
- STM32 Performance and Access line microcontrollers with 128 Kbytes Flash (ST order code: **STM3210B-SK/HIT**)
- STR91xF microcontrollers (ST order code: **STR91X-SK/HIT**)
- STR75xF microcontrollers (refer to www.hitex.com)
- STR73xF microcontrollers (refer to www.hitex.com)
- STR71xF microcontrollers (refer to www.hitex.com)

For more information and complete documentation, please refer to the Hitex website or the STMicroelectronics microcontroller support site on www.st.com.

Revision history

Table 2. Document revision history

Date	Revision	Changes
14-Dec-2005	1	Initial release.
7-Jun-2006	2	Added STR91X-SK/HIT and STR730-SK/HIT
4-Oct-2006	3	Added order code and product characteristics for STR750-SK/HIT
4-Oct-2007	4	Modified document title. Added STM3210B-SK/HIT and features.
13-Aug-2009	5	Added STM3210E-SK/HIT and features. Modified Table 1 contents.
27-May-2011	6	Modified Table 1 and Section : Ordering information .

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