



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

## Hitex starter kits for ST ARM core-based microcontrollers

Data brief

### Features

- Hitex Development Tools<sup>®</sup> software toolset for ARM<sup>®</sup> 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<sup>®</sup> 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, I<sup>2</sup>C, 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 <sup>(1)</sup>	STR73xF <sup>(1)</sup>	STR71xF <sup>(1)</sup>
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 <sup>2</sup> 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](http://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](http://www.hitex.com))
- STR73xF microcontrollers (refer to [www.hitex.com](http://www.hitex.com))
- STR71xF microcontrollers (refer to [www.hitex.com](http://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](http://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 <a href="#">Table 1</a> and <a href="#">Section : Ordering information</a> .

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