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

Hitex starter kits for ST ARM core-based microcontrollers

Data Brief

Features

■ Hitex software toolset for ARM® devices, with:
  – HiTOP5 integrated development environment (IDE) for application programming and debugging
  – Tasking VX C/C++ compiler (STM32 kit), 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*.

Description

The **Hitex starter kits** are complete, full-featured solutions for starting application development and evaluating the features of 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 HiTOP5 development software with C/C++ toolset.

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Starter kit architecture

Hitex development software provides a complete set of software tools for creating and debugging microcontroller applications. It includes **HiTOP5**, Hitex's integrated development environment that drives the hardware and offers a full range of project management, source-code editing and debugging features from an intuitive graphical interface. HiTOP5 with Tasking VX C/C++ compiler delivered in STM32 kits has no code-size limitation when used with the included STM32-PerformanceStick. HiTOP5 in STR9 and STR7 kits allows debugging of applications up to 16 Kbytes in size.

HiTOP5 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 HiTOP5 downloads and updates, refer to the Hitex web site.

Hardware interface – For in-circuit debugging and programming of the target microcontroller, the STM32 kit includes *STM32-PerformanceStick* with integrated debugging/programming via dedicated USB interface. STR9 and STR7 kits include the *Tantino* in-circuit debugging and programming tool featuring USB host interface and industry standard JTAG application board interface.

Hitex evaluation board – Full-featured evaluation boards with target microcontroller are designed for quick and easy evaluation of a complete range of microcontroller-specific features such as Ethernet, USB, CAN, UART, I^2C, SPI, and ADC. Power supply is included.

Table 1.   Hitex evaluation board key features

Feature	Starter kit				
	STM32F10xB kit	**STR91xF kit**	**STR75xF kit**	**STR73xF kit**	**STR71xF kit**
Included STR microcontroller	STM32F103B	STR912FW4	STR750FV2	STR730FZ2	STR710FZ2
20-pin JTAG interface connector	N/A	Yes	Yes	Yes	Yes
38-pin trace tool connector	N/A	Yes (footprint only)	N/A	N/A	N/A
External power supply included	N/A	Yes	Yes	Yes	Yes
Backup power supply	3V button battery	3V button battery	N/A	N/A	N/A
UART connector(s)	1	2	2	4	2
SPI	Yes	Yes	Yes	Yes	Yes
I^2C	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

Table 1.   Hitex evaluation board key features

Feature	Starter kit				
	STM32F10xB kit	**STR91xF kit**	**STR75xF kit**	**STR73xF kit**	**STR71xF kit**
User LEDs	3 (Simple LED)	2 (7 segment LED)	2 (7 segment LED)	2 (7 segment LED)	8 (Simple LED)
LCD display	No	Footprint	Footprint	No	No
SD/MMC connector	No	Yes	Yes	No	No
Potentiometer connected to ADC	No	Yes	Yes	Yes	Yes
User push button(s)	2	5	3	No	No
Reset button	Yes	Yes	Yes	Yes	Yes
Wrap area	No	No	No	Yes	No
Motor control connector	No	34-pin header	34-pin header	No	No
Extension board connectors	one 80-pin connector	Two 50-pin headers	No	No	No

Ordering information

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

● STM32F10xB microcontrollers (ST order code: **STM3210B-SK/HIT**)

● STR91xF microcontrollers (ST order code: **STR91X-SK/HIT**)

● STR75xF microcontrollers (ST order code: **STR750-SK/HIT**)

● STR73xF microcontrollers (ST order code: **STR730-SK/HIT**)

● STR71xF microcontrollers (ST order code: **STR710-SK/HIT**)

For more information and complete documentation, please refer to the Hitex web site 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.

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