ST7FLITE-SK/RAIS, ST7232x-SK/RAIS

Raisonance's Complete, Low Cost Starter Kit for ST7

The **REva Starter Kits** are Raisonance's complete, cost-effective solutions for starting application development and evaluating ST7LITE (order code: ST7FLITE-SK/RAIS) and ST7232x (order code: ST7232x-SK/RAIS) microcontrollers.

Kits come with all the hardware and software developers need to start developing applications for the ST7LITE and ST7226x devices, or the ST7232x devices. Kits include the *REva* evaluation board, ST7 microcontrollers, the embedded *RLink* for in-circuit debugging and in-circuit programming and the Raisonance Integrated Development Environment (*RIDE*) with application builder.

Starter Kit Architecture

Embedded *RLink* – in-circuit debugging and programming tool that uses in-circuit communication (ICC) for ST7 and interfaces with the host PC via USB connection.

***REva* mother board** – universal evaluation board designed for quick and easy evaluation of a complete range of features (I/Os, ADC, SPI, CAN, I^2C...) for a variety of ST7s. It is powered from the *RLink's* USB connection to the host PC.

***REva* daughter boards** – interchangeable boards featuring different ST7 microcontrollers, make it easy to evaluate and develop applications for a complete range of MCUs from a single evaluation platform.

***RIDE*-ST7 software** – Raisonance's free integrated development environment drives the hardware and offers seamless control of all software development tools (compiler, assembler, linker, debugger, etc.) from an intuitive graphical interface. Fully integrates control of Cosmic C and Metrowerk's C toolsets. Includes RBuilder, an easy-to-use graphical inter-face for starting an ST7 application from scratch without writing a single line of code.

Figure 1. REva Starter Kit for ST7
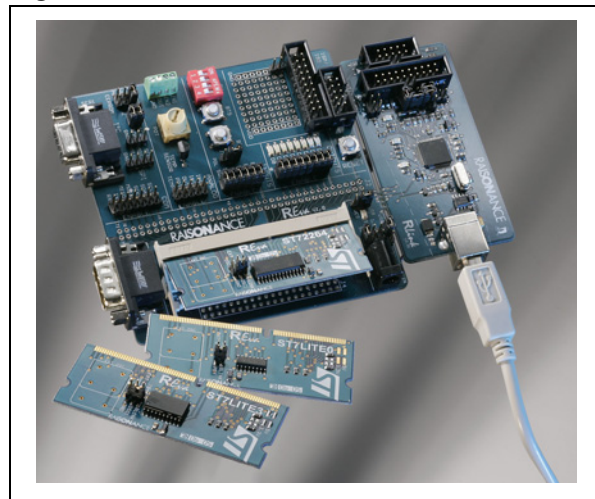
Starter Kit Key Features

Embedded RLink:

■ USB interface to host PC

■ In-circuit debugging (ICD)

■ In-circuit programming (ICP)

REva mother board:

■ 1 standard SO-DIMM connector to plug in daughter boards.

■ Digital and analog I/O evaluation features, including on-board LEDs, buttons, switches, external analog connector, temperature sensor and potentiometer

■ I^2C EEPROM and bus

■ RS232 driver and 2 DB9 connectors

■ Prototyping area

■ VDD settings for 1.8V, 3.3V and 5V microcontrollers

■ USB powered, no external power required

REva daughter boards:

■ Interchangeable daughter boards featuring different ST7 microcontrollers make it possible to develop applications for a wide range of devices in the ST7LITE, ST7226x and ST7232x families.

Table 1.   REva daughter boards and featured microcontrollers

Daughter board	Supports development for...		MCU on daughter board	MCU package
ST7FLITE-SK/RAIS				
ST7LITE0	**ST7LITE0**	**ST7SUPERLITE**	ST7FLITE09Y0	SO16
ST7LITE1B	**ST7LITE1B**		ST7FLIT19BF1	SO20
ST7LITE3	**ST7LITE1** **ST7LITE3**	**ST7LITE2**	ST7FLITE39F2	SO20
ST72264	**ST72260** **ST72264**	**ST72262**	ST72F264G2	SO28
ST7232x-SK/RAIS				
ST72325	**ST72321** **ST72324**	**ST72321B** **ST72325**	ST72F325J6	TQFP44

RIDE-ST7:

■ Free download from *www.raisonance.com*

■ Seamless control of Cosmic C and Metrowerks C toolsets for ST7

■ RBuilder application builder (requires use of a C compiler) for quick, easy configuration of ST7 peripherals and generation of associated application source code.

■ *SIMICE-ST7* simulator

■ High level debugger

■ Color syntax highlighting editor

■ Project manager

■ Supports ST7-EMU3 and ST7-DVP3 series emulators

■ Supports *CodeCompressor*, Raisonance's optional post-link code optimizer. Applies optimizations such as inlining, factorization and peepholing.

RIDE-ST7 is compatible with the free limited code-size versions of the Cosmic and Metrowerks C toolsets. For more information and free downloads, refer to *www.cosmic-software.com* or *www.metrowerks.com*.

REva Starter Kits based on the same mother/daughter board design, with embedded RLink, driven by RIDE-STR7 software are also available for STR7 ARM core-based microcontrollers. For more information refer to www.st.com/mcu.

Revision history

Date	Revision	Changes
1-Mar-2005	1	Initial release.
24-Aug-2005	2	• Added part number ST7232x-SK/RAIS • Updated *Table 1* with supported MCUs and package information • Updated *Table 1* with ST7LITE1B daughter board

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