STR71x-SK/RAIS, STR730-SK/RAIS

Raisonance's Complete, Low Cost Starter Kit for STR7

DATA BRIEF

The ***REva* Starter Kits** (STR71x-SK/RAIS, STR730-SK/RAIS) are Raisonance's complete, cost-effective solutions for starting application development and evaluating the features of STR7 ARM core-based microcontrollers.

They come with all the hardware and software developers need to start developing applications for STR7 devices, including the *REva* evaluation board, STR7 microcontrollers, the embedded *RLink* JTAG interface and the Raisonance Integrated Development Environment (*RIDE*).

Starter Kit Architecture

Embedded *RLink* – in-circuit debugging and programming tool that uses the JTAG interface protocol for STR7 and interfaces with the host PC via USB connection.

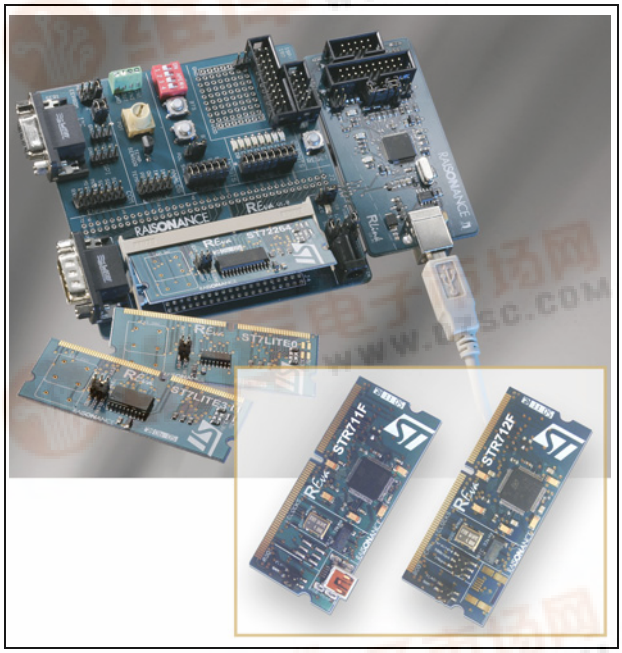
***REva* mother board** – universal evaluation board designed for quick and easy evaluation of a complete range of features for STR7. It is powered from the *RLink's* USB connection to the host PC.

***REva* daughter boards** – interchangeable boards featuring different STR7 microcontrollers, make it easy to evaluate and develop applications for a complete range of MCUs from a single evaluation platform.

***RIDE*-STR7 software** – Raisonance's 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 the GNU C/C++ tools. The starter kit comes with the free, 16K code size limited version of RIDE-STR7.

REva Starter Kits based on the same mother/daughter board design, with embedded RLink, driven by RIDE-ST7 software are also available for ST7 microcontrollers. For more information refer to www.st.com/mcu.

Figure 1. REva Starter Kit for STR71x



Starter Kit Key Features

Embedded RLink:

- USB interface to host PC
- JTAG standard interface

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
- I²C EEPROM and bus
- RS232 driver and 2 DB9 connectors
- Prototyping area
- VDD settings for 1.8V, 3.3V and 5V
- USB powered, no external power required

REva daughter boards:

- Interchangeable daughter boards featuring different microcontrollers make it possible to develop applications for a wide range of devices in the STR7 family of ST ARM-core based microcontrollers.

Table 1. REva daughter boards and featured microcontrollers

MCU Daughter board	MCU package	MCU specific features
STR71xF-SK/RAIS Starter Kit		
STR711F	TQFP64	USB mini-B connector
STR712F	TQFP64	CAN configuration jumpers
STR730F-SK/RAIS Starter Kit		
STR730F	TQFP144	CAN configuration jumpers

RIDE-STR7:

- Free download
- Seamless control of GNU C/C++ toolset
- High-level debugger
- SIMICE simulator for STR7
- Color syntax highlighting editor
- Project manager

In addition to RLink, RIDE-STR7 drives the Signum JTAGjet in-circuit debugging and programming tool for ARM core-based microcontrollers.

For more information about RIDE-STR7 and free downloads, refer to *www.raisonance.com*.

Revision history

Date	Revision	Changes
1-Aug-2005	1	Initial release.
21-Sep-2005	2	• Addition of the STR730-SK/RAIS • Addition of JTAGjet in hardware driven by RIDE-STR7