



STR9-DK/RAIS, STX-PRO/RAIS

Raisonance's unlimited development tool bundles for STM32, STR7 and STR9

Data Brief

Features

- In-circuit debugger/programmer with industry standard JTAG application board interface and USB connection to the host PC.
- RIDE unlimited version that drives RLink and Signum's JTAGjet, and offers seamless control of software development tools and GNU C/C++ compiler from an intuitive GUI.
- Signum's JTAGjet (in the STR9-DK/RAIS), with support for execution tracing during debugging, so that users can take advantage of the STR9's Embedded Trace Macrocell™.
- Raisonance's RLink (in the STX-PRO/RAIS) that allows in-circuit programming and debugging of a range of 32- and 8-bit STMicrocontrollers.
- Unlimited, optimizing GNU C/C++ compiler.

The REva modular evaluation board with the STR9-DK/RAIS helps evaluation of a range of ST microcontrollers and device features.

- Motherboard provides general evaluation features including LEDs, push buttons, switches, temperature sensor, potentiometer and interfaces for I2C, SPI and UART.
- Daughterboard features specific components for the STR912FAW4, including the MCU itself, ETM trace connector and Ethernet connector. Daughterboards are interchangeable and plug into a standard SO-DIMM connector found on all REva motherboards.

Description

The Professional Kit (STX-PRO/RAIS) and the STR9 Professional Developer Kit (STR9-DK/RAIS) provide cost-effective, unlimited application development solutions for STMicroelectronics Cortex™-M3, ARM7TDMI™ and ARM966E™ core-based microcontrollers.



The tools contain everything required to develop STM32 and STR7/9 applications including in-circuit debugger/programmer, Raisonance Integrated Development Environment (RIDE) and GNU C/C++ compiler.

The STR9-DK/RAIS includes extras such as Signum's JTAGjet supporting unlimited execution trace and REva evaluation board with STR91xF and plenty of code samples to help users get started with peripherals such as Ethernet and USB.

Development tool key features

In-circuit debugger/programmer

Raisonance RLink (standalone in STX-PRO/RAIS, embedded in STR9-DK/RAIS).

- USB host PC interface
- Industry standard JTAG application interface
- RLink also includes SWIM, ICC and JTAG connection adapters for in-circuit debugging/programming of 8-bit STM8, ST7 and uPSD microcontroller families.

Signum JTAGjet (in STR9-DK/RAIS).

- USB host PC interface
- Trace connection for the STR9's Embedded Trace Macrocell™
- 2 Mbyte trace buffer
- Industry standard JTAG application interface

Raisonance integrated development environment (RIDE)

RIDE drives both the RLink in-circuit debugger/programmer and the Signum JTAGjet in-circuit debugger/programmer with trace for use with the STR9 microcontroller's ETM™.

- Unlimited version (in STX-PRO/RAIS)
- Seamless control of GNU C/C++ toolset
- High-level language debugger
- SIMICE simulator for STM32, STR7 and STR9
- Color syntax highlighting editor and Project manager

REva evaluation board (in STR9-DK/RAIS)

This innovative modular platform consists of a motherboard daughter board and a limited embedded RLink in-circuit programmer and debugger.

- REva motherboard
 - 1 standard 72-pin 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 extension connector
 - RS-232 driver and 2 DB9 connectors
 - Prototyping area
 - V_{DD} settings for 1.8V, 3.3V and 5V
 - USB powered, no external power required
 - Embedded RLink (32K limited version) for in-circuit debugging and in-circuit programming.
- REva STR91xF daughterboard with STR912FAW4 (LQFP128 package), clock selector and other device dependant features, Ethernet connector and ETM trace connector.

Ordering information

Raisonance development tool bundles can be ordered from your nearest ST Distributor or sales office, Raisonance (www.raisonance.com), or from Signum (www.signum.com).

The following tool bundles are currently available:

Table 1. Order codes

Order code	In-circuit debugger/programmer	Integrated development environment	C/C++ compiler	Evaluation board
STX-PRO/RAIS	Unlimited RLink (no trace)	RIDE	GNU C/C++	No
STR9-DK/RAIS	JTAGjet with trace support, 32K limited RLink	RIDE	GNU C/C++	REva with STR912FAW4

RIDE also supports application development and debugging for the 8-bit STM8, ST7 and uPSD microcontroller families. RIDE provides the same seamless integration of compilers and assemblers for these families and supports a range of debugging tools and emulators.

For more information, documentation and downloads, refer to www.raisonance.com or the STMicroelectronics microcontroller support site, www.st.com.

Revision history

Table 2. Document revision history

Date	Revision	Changes
27-Jun-2006	1	Initial release.
23-Oct-2008	2	Updated to include STM32, STM8 and SWIM.

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