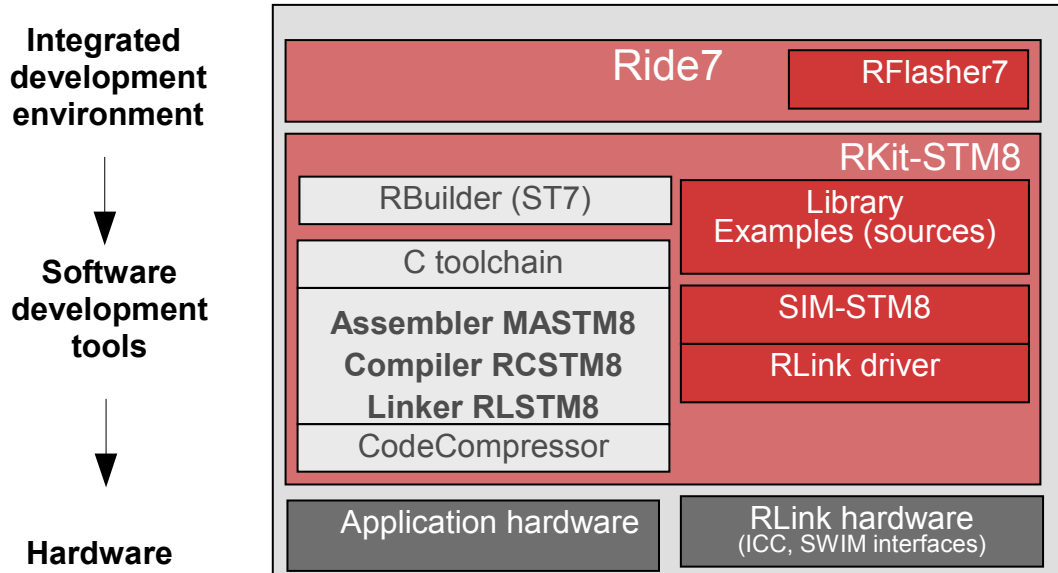


## 2. Ride7 and RKit-STM8 overview

RKit-STM8 defines the software and hardware tools for creating, compiling and debugging applications. For a full range of STM8 and ST7 microcontrollers.

The following table shows the set of tools that compose the RKit-STM8:



### 2.1 RKit-STM8

There are three versions of the RKit-STM8 (see Section 8 for details).

- **Basic** license includes programming and debugging of STM8/ST7 with no limitations. Compiler up to 2KB code. Activated using RLink/REva/Open4/EvoPrimer.
- **Lite** license includes programming and debugging of STM8/ST7 with no limitations. Compiler up to 32KB code. Activated using Serial Key, Dongle.
- **Enterprise** license includes programming, debugging and compiling of STM8/ST7 with no limitations. Activated using Serial Key, Dongle.

RKit-STM8 comes supplied with a number of ST7/STM8-specific tools from Raisonance:

- **Ride7**: Integrated development environment which is the interface for all the other tools. Provides an editor, a project manager (no need for a Makefile) and a debug user interface that can be used either with the simulator or with most available hardware-debugging tools. It can be used by several microcontroller families, including ST7/STM8, ARM and uPSD.
- **Compile Chain**: Raisonance C toolchain, composed of C Compiler, Assembler and Linker which allows you to write applications in C and/or assembler.
- **Simulator**: Simulates core (including the entire memory space) and most peripherals. Complex peripherals (USB, CAN) and some less common peripherals are not simulated.
- **CodeCompressor**: A post link optimization tool that can reduce code size. It accepts as input any executable code, whether from assembler, C or any other source (libraries...).
- **RBuilder**: A GUI that configures the ST7 peripherals used by the application, and generates the corresponding source code (in C) for the peripherals, using the ST firmware library.
- **RFlasher7**: A graphical user interface for Flash programming.
- **RLink support**: Ride7 can communicate with the RLink, which is a USB hardware dongle that allows the user to program the ST7/STM8 on an application board and debug the application while it is running on the ST7/STM8. It uses the ICC or SWIM protocol. For more information refer to chapter "Debugging with hardware tools".

Each tool mentioned above has a dedicated user manual (please refer to the appropriate manual for more details) apart from Ride7, the simulator and RLink.