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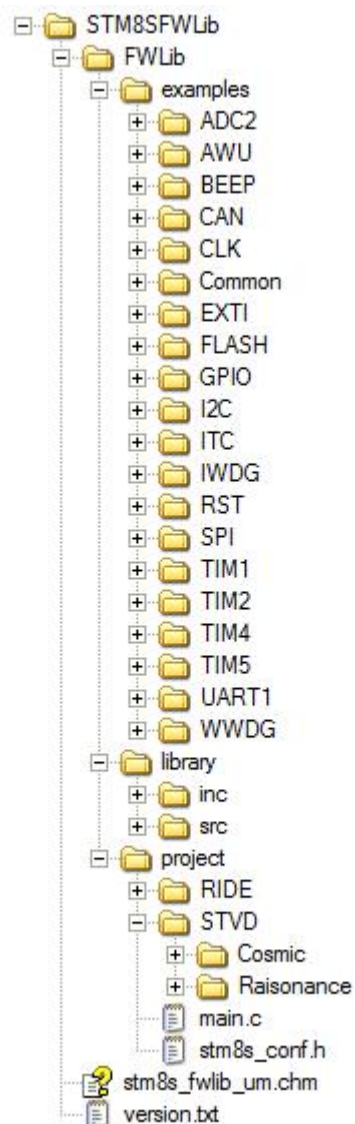
## STM8S Firmware Library: *Package description*

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### *Package description*

The Firmware library is supplied in one single zip file. The extraction of the zip file generates one folder, **STM8SFWLib**, which contains the following subfolders:



► **examples** folder, [complete list of available examples](#)

This examples folder contains, for each peripheral sub-folder, the minimum set of files needed to run a typical example on how to use a peripheral:

- *readme.txt*: brief text file describing the example and how to make it work.

- *stm8s\_conf.h*: header file allowing to configure the peripherals that are used, and containing miscellaneous *#define* statements.
- *stm8s\_it.c*: source file containing the interrupt handlers (the function bodies may be emptied if not used).
- *stm8s\_it.h*: header file including all interrupt handler prototypes.
- *main.c*: example of code.
- *main.h*: header file of the example main.c file (optional)

► **library** folder

The library folder contains all the subdirectories and files that make up the core of the library:

- **inc** sub-folder contains the firmware library header files. They do not need to be modified by the user:
  - *stm8s\_type.h*: common data types and enumeration used in all other files.
  - *stm8s.h*: peripherals memory mappings and registers data structures.
  - *stm8s\_ppp.h* (one header file per peripheral): Function prototypes, data structures and enumeration.
- **src** sub-folder contains the firmware library source files. They do not need to be modified by the user:
  - *stm8s\_ppp.c* (one source file per peripheral): function bodies of each peripheral.

► **project** folder

The project folder contains a standard template project program that compiles all library files plus all the user-modifiable files that are necessary to create a new project:

- *stm8s\_conf.h*: header file allowing to configure the peripherals that are used, and containing miscellaneous *#define* statements.
- *main.c*: main program body.
- **RIDE** sub-folder contains template project for **Raisonance Integrated Development Environment (RIDE7)** used with **STM8/ST7 C compiler**
  - *STM8\_OB.asm*: To configure option bytes
- **STVD\Cosmic** sub-folder contains template project for **ST Visual Develop (STVD)** used with **Cosmic compiler**
  - *stm8\_interrupt\_vector.c*: interrupt vector table
- **STVD\Raisonance** sub-folder contains template project for **ST Visual Develop (STVD)** toolchain with **Raisonance STM8/ST7 C compiler**

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For complete documentation on STM8S 8-bit microcontrollers platform visit [www.st.com/STM8](http://www.st.com/STM8)