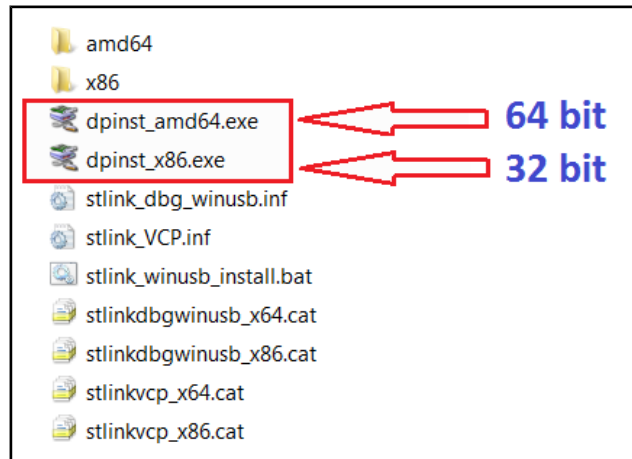# How to install the toolchain for develop on STM32

- **Install SW driver for ST-LINK-v2**

- **Install the ST-LINK-UTILITY**

- **Install the CUBE**

- **Install your prefered C Compiler**

- **STM32 free Toolchains**

- **How to develop a new project using STM32L476-Discovery, KEIL and CUBE MX**

- **How to develop a new project using NUCLEO-F401RE, KEIL and CUBE MX**

- **More STM32 info are available here: www.emcu.it**

- ***Instal SW driver for ST-LINK-v2***

Download and install the driver: **STSW-LINK009**
Choose the right version, 32 or 64 bit, for your PC.

ST-LINK-v2 is a standard low cost emulator that is present on all STM32 evaluation boards.
There is also the ST-LINK-v2 standalone emulator that is visible below.
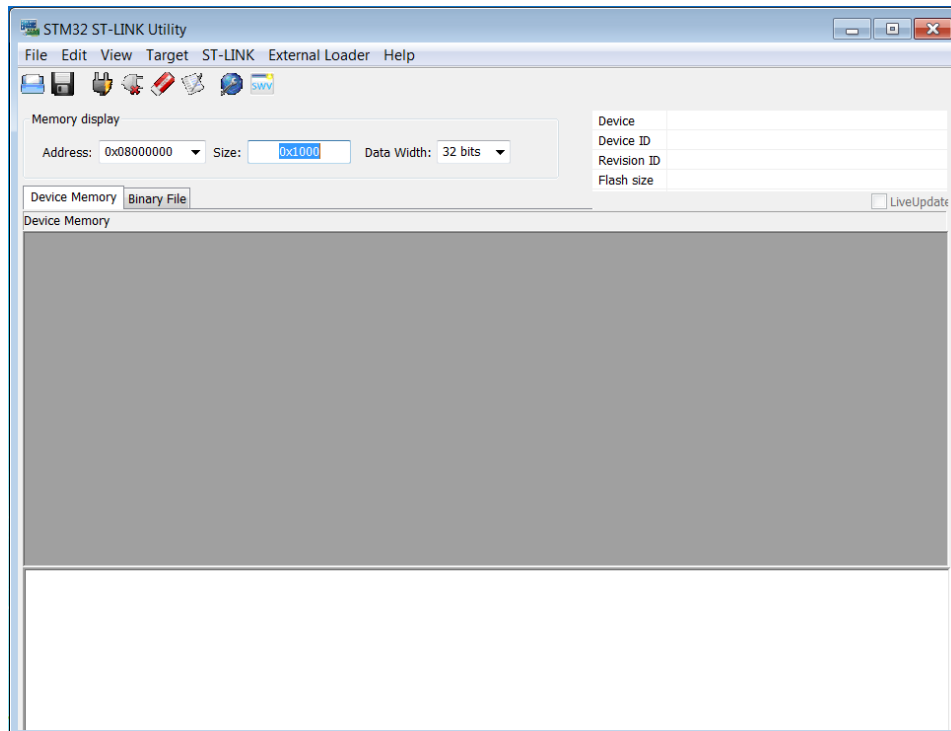ST-LINK-v2 standalone emulator support two STM MCU families that are:
       STM32 family and STM8 family.
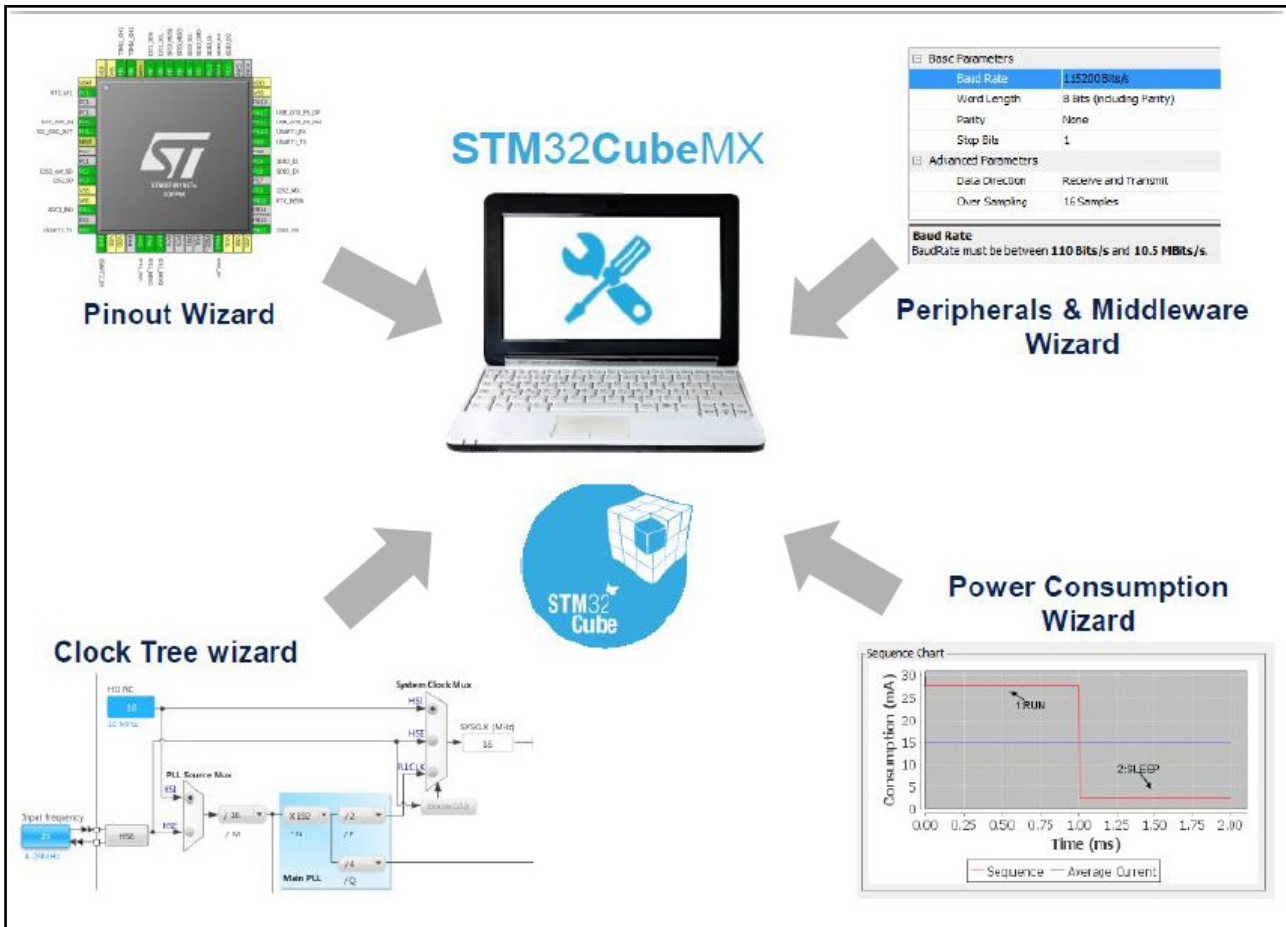The cost is about 30 €.

- ***Install the ST-LINK-UTILITY***

Download and install the: **STSW-LINK004**

- ***Install the CUBE***

Cube is a graphical tool that allows configuring STM32 microcontrollers very easily and generating the corresponding initialization C code through a step-by-step process.

Download and install the: **STM32CubeMX**

- ***Install your prefered C Compiler***

At this point you must decide how C Compiler to use for develop a new project on STM32. Up to now there is a loot of C Compiler also free but the STM examples for STM32 normally are ready to use with this C Compiler:
- **Atollic** (is free)
- **AC6** (is free)
- **KEIL** is free for STM32L0xx and for the STM32F0xx. The standard KEIL is free up to 32K of exe.
- **IAR**

Here there is a list of the principal C Compilers.