Software Instructions for MicroBCI

1. Connect Nucleo Board via micro USB (right USB port)

2. Install Software M32CubeProgrammer **for Windows 64**

Software can be uploaded via the Official website of STM32
https://www.st.com/en/development-tools/stm32cubeprog.html

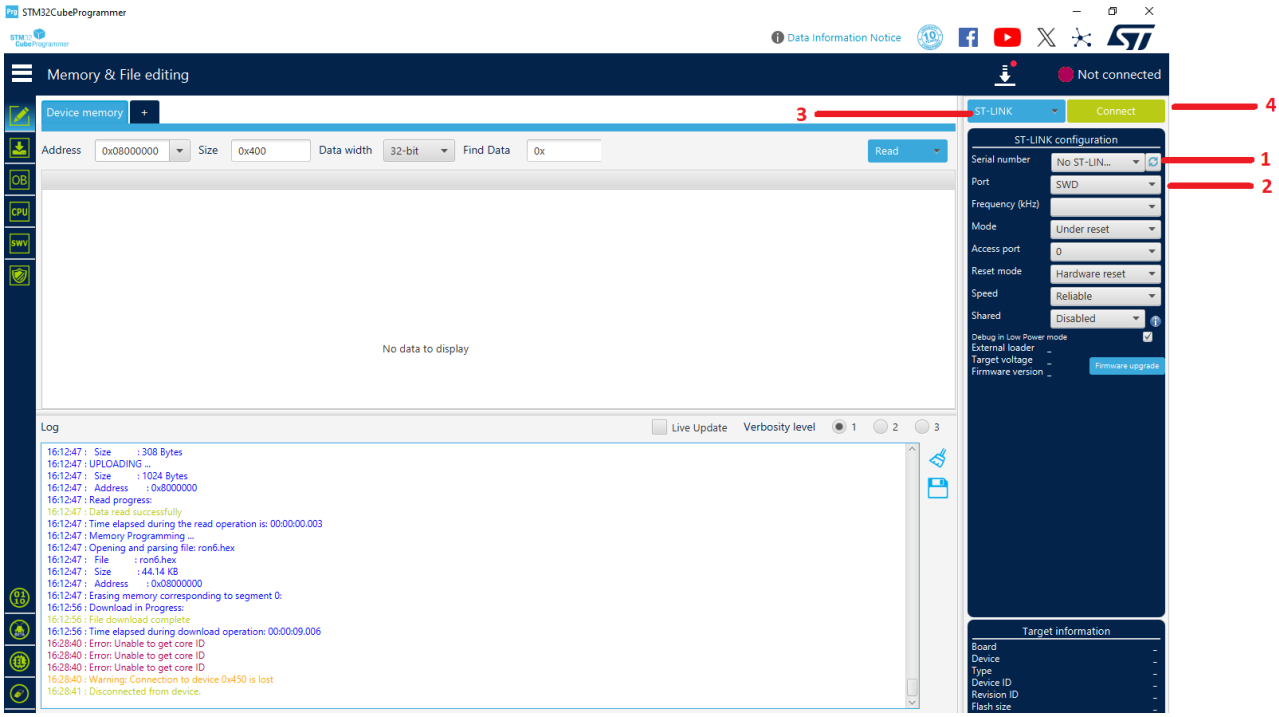
3. STM32CubeProgrammer

1 – The ST-Link should be recognized (**if not need to check drivers**)

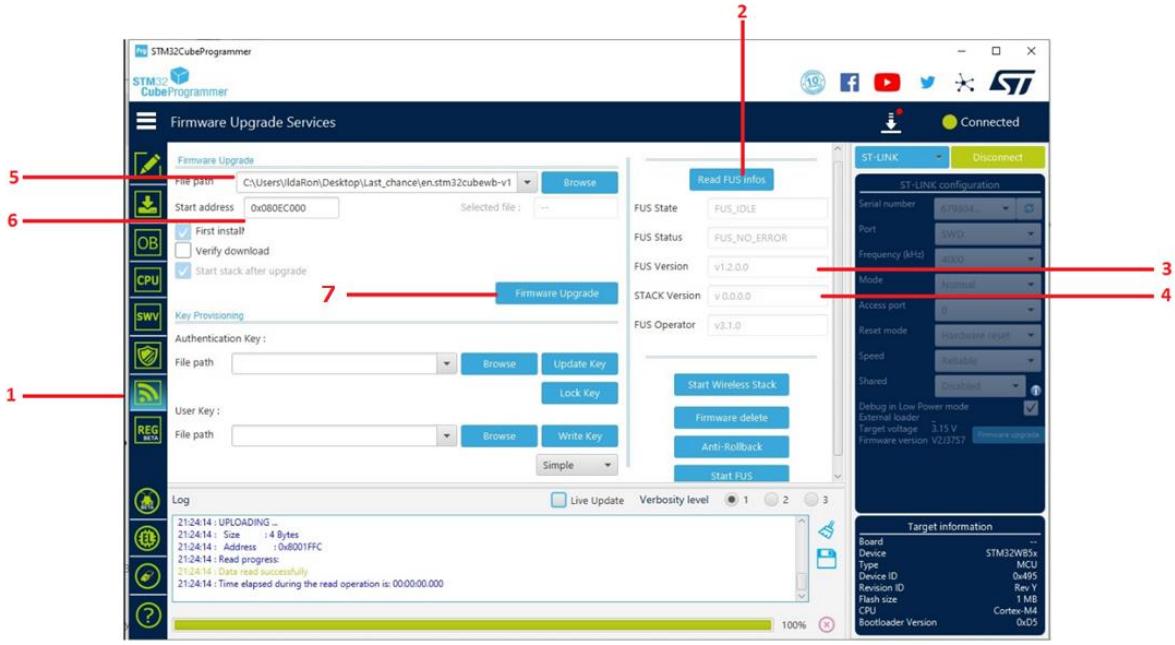
2 – Port Should be **SWD**

3 – ST-Link should be choose here

4 – Connect device



4. Upload Stack (to prepare Board operate via BLE)



1 – Open FUSE window in STM32CubeProgrammer

2 – Read FUS Infos

3 – Confirm Version of FUS version (v1.2.0.0 or V1.3.00)

4 – Confirm that device has Stack Version **(not 0.0.0.0)**

5 – Browse and indicate Path for Stack **stm32wb5x_BLE_Stack_full_fw.bin**

File location – https://github.com/pieeg-club/MicroBCI/blob/main/Framework/stm32wb5x_BLE_Stack_full_fw.bin

6 – Write address 0x080CE000

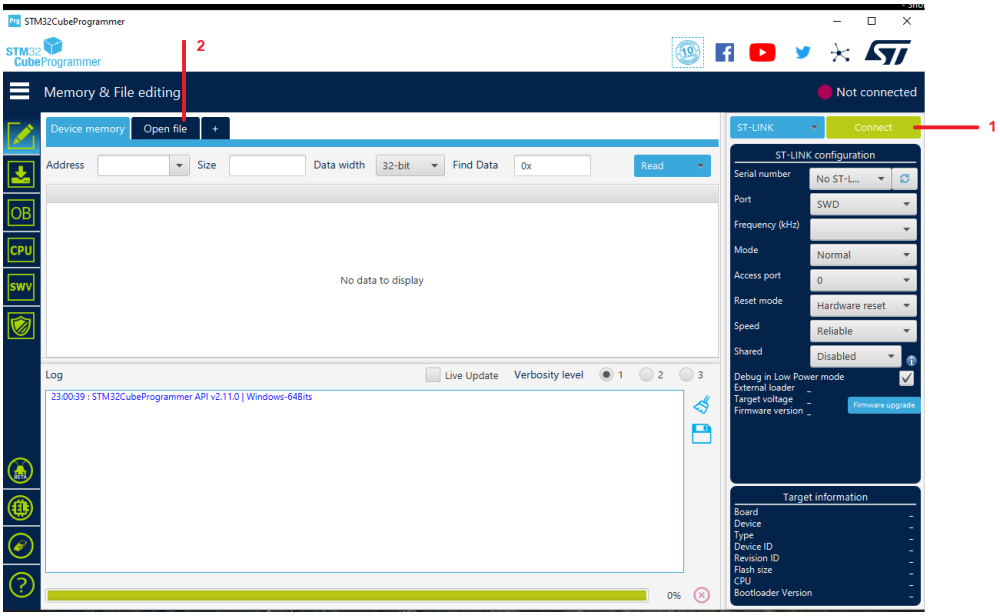
5. Upload Hex. File 1.Micro_BCI.hex

File from GitHub

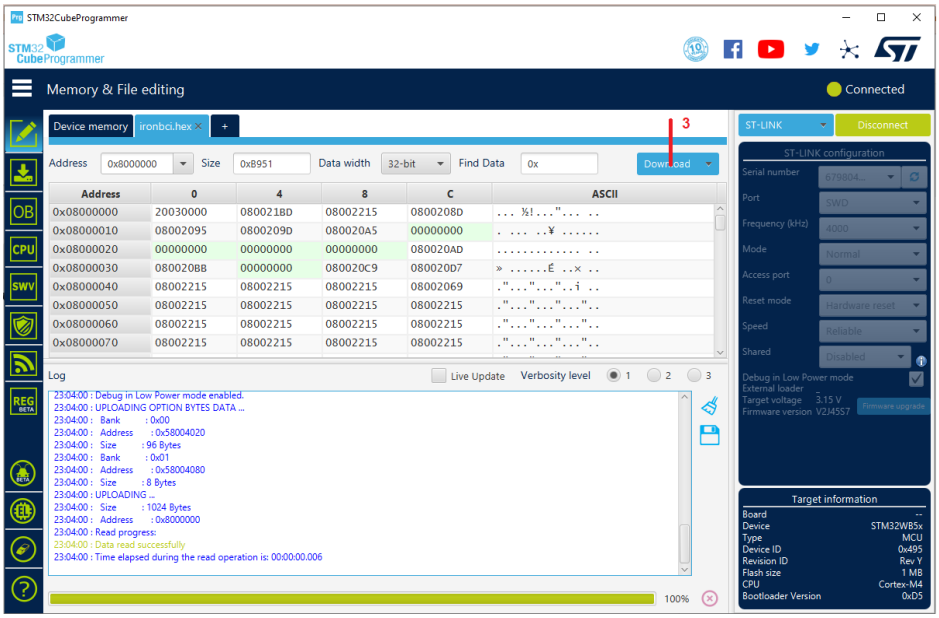
https://github.com/pieeg-club/MicroBCI/blob/main/Framework/Micro_BCI.hex

1 – Connect software to device

2 – Open Hex file (Location of .hex file)



3 – Upload .hex file to device



1. **Test device**

   Install Mobile App for android SDK or Python SDK

   Mobile SDK https://github.com/pieeg-club/MicroBCI/tree/main/Mobile_SDK

   Python SDK https://github.com/pieeg-club/MicroBCI/tree/main/SDK/GUI