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# **CDU PROGRAMMING GUIDE**

GPD  
06/2024

V1.0

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## VERSIONS

### V1.0

- First version

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## 1. SUMMARY

- Tool list
- Connections
- USB Bootloader steps

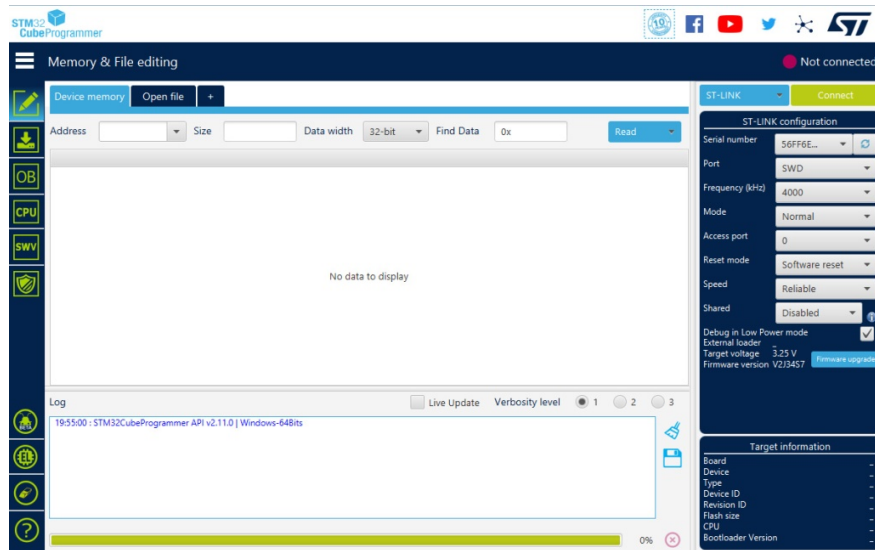
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## 2. PROGRAMMING

### 2.1. Tools

#### 1. ST32Cube Programmer Software

Download from: <https://www.st.com/en/development-tools/stm32cubeprog.html>



2. USB\_C cable (only for USART programming)
3. Firmware files: (.HEX)

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## 2.2. Steps

1. Install and run the STM32Cube programmer version for your system.
2. Power up the board
3. Connect the board to the computer with the USB-C cable.
4. Select "UART" interface at top right of screen.
5. In "UART Configuration", setup the port as follows:

Baudrate : 115200

Parity: Even

Data bits: 8

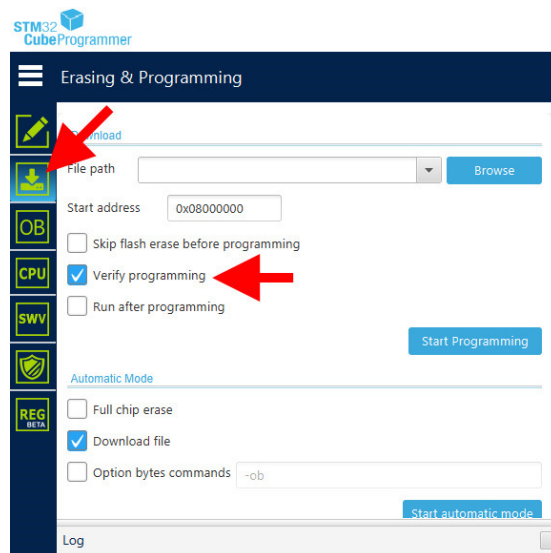
Stop bits: 1

Flow control: Off

RTS, DTR: null

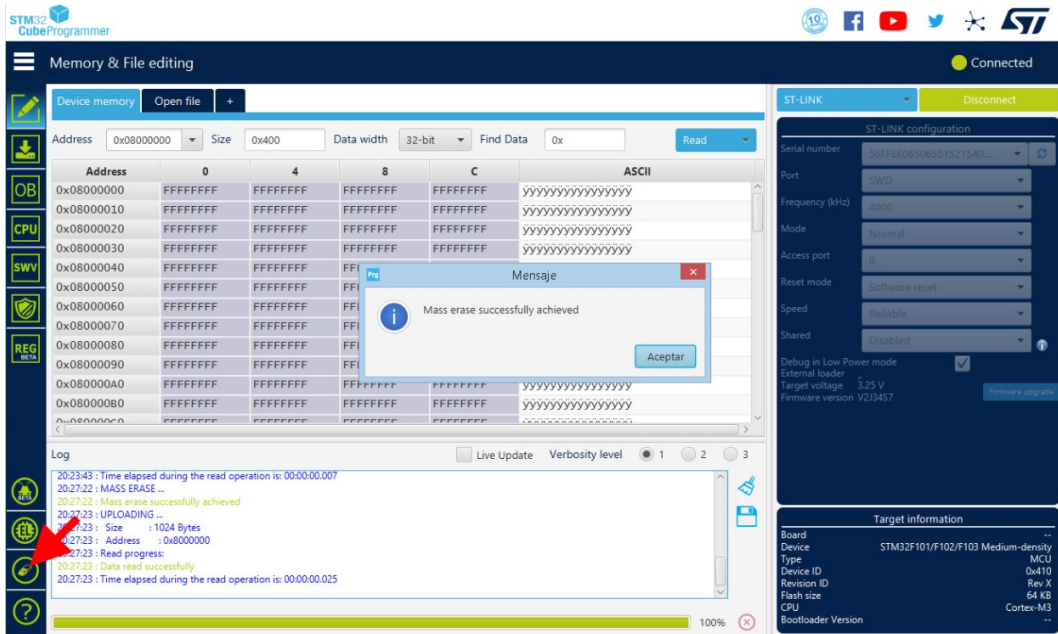
Other boxes: blank

6. Click on "Connect" and wait for the software to scan the target memory
7. Open "Erasing & Programming" Options and check that "Verify programming" is enabled.

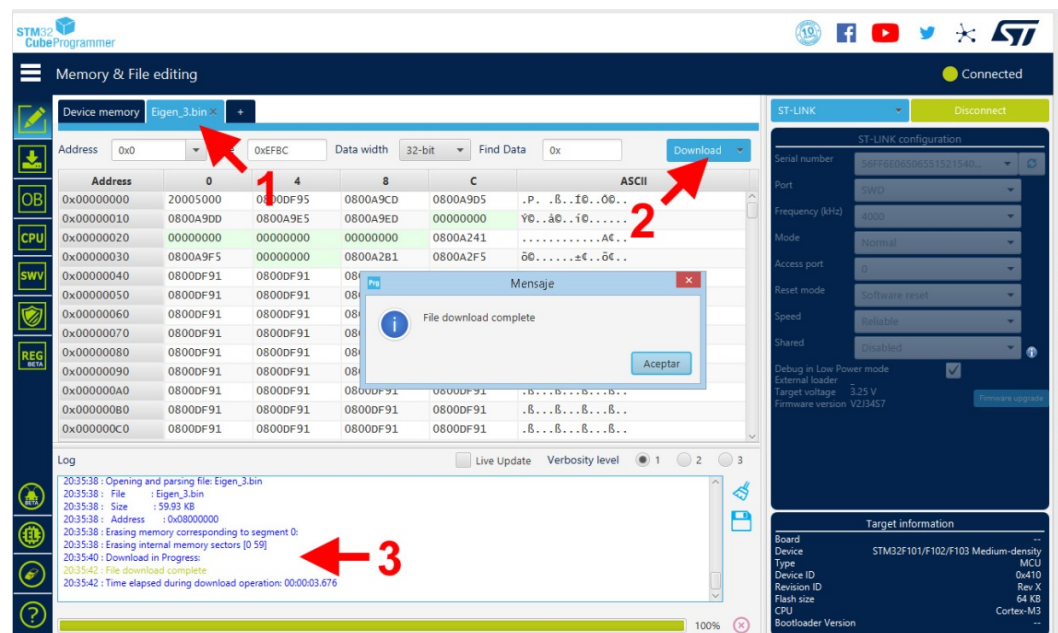


8. Click on the "Erase Target" icon at bottom left.

9. Click on the Confirmation dialog and wait for completion. The Main window will show all memory filled with 0xFFFFFFFF.



10. Click on the “Open file” or “+” tab at top left (1), and browse and load the firmware image (.HEX or .BIN),
11. Click on the “Download” button (2) and wait for completion.
12. The log (3) will show “File Download complete” when finished.



13. Disconnect the USB cable and cycle power to the board to reset the program.

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## NOTES