

The only hardware thing left is to connect converter to PC via the micro USB cable. However, before you need to download as well as the programmer software.

3. You are welcome to download the firmware from one of the links below:

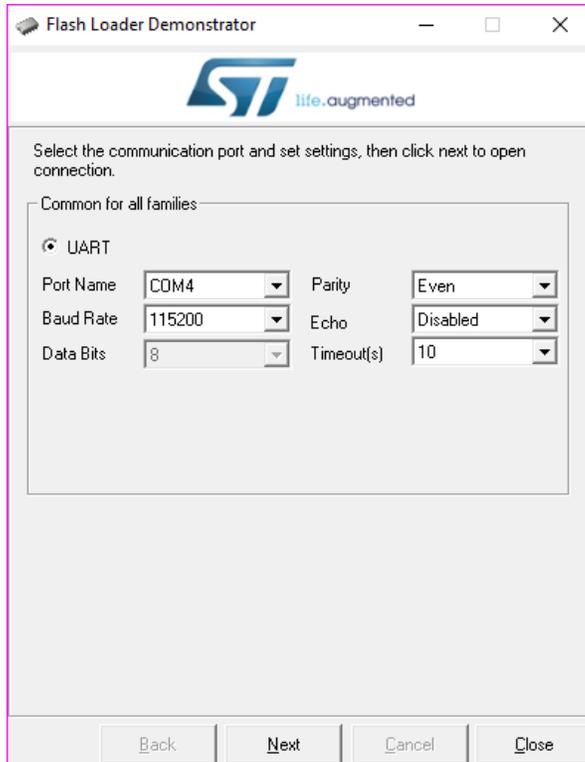
Google Drive: https://drive.google.com/open?id=1g5eqV_OeZVYaQT4km8bjpoutT9iPgOI0

Facebook group: <https://www.facebook.com/groups/336136297134996/>

4. Programming

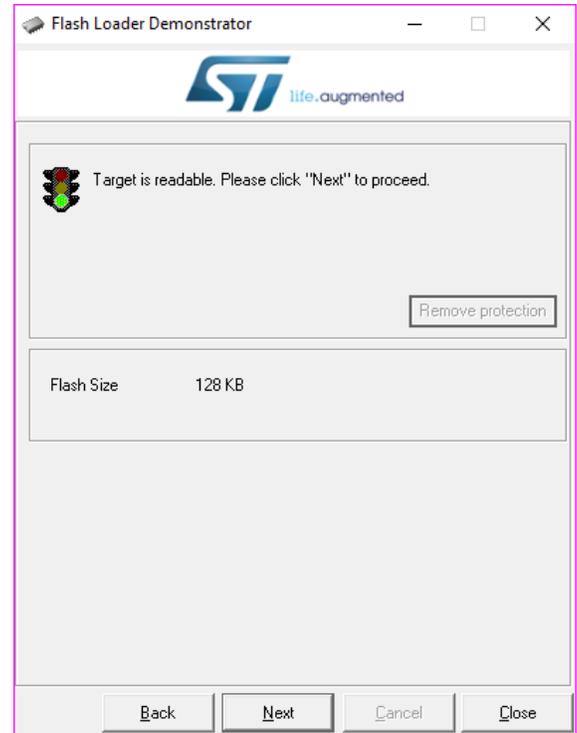
Download the programmer software from the microcontrollers' manufacturer [website](#).

Execute the program.

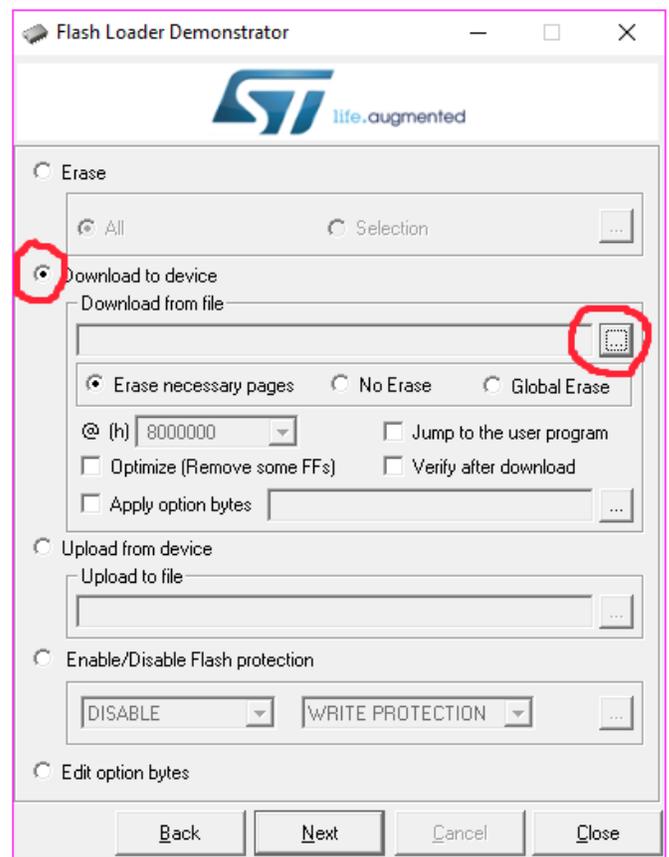
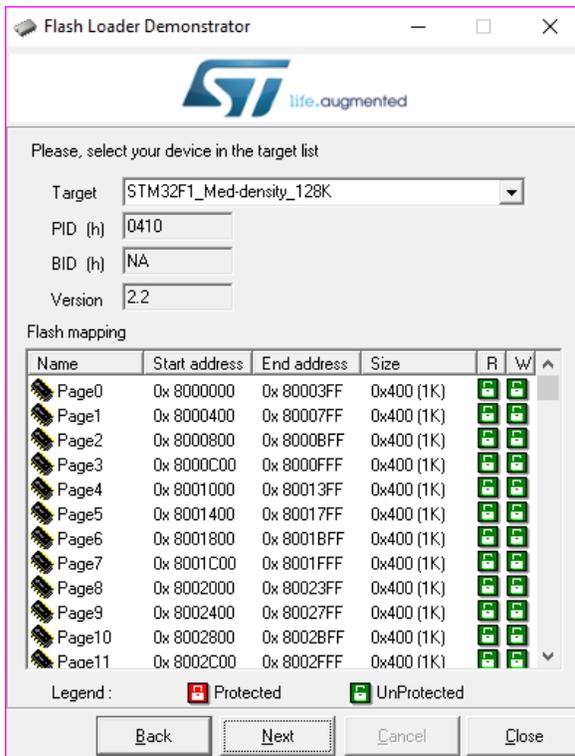


Select port, to which you connected USB-COM converter and Baud Rate 115200. (how to find out the port name see below in the attachment)

Press -> Next

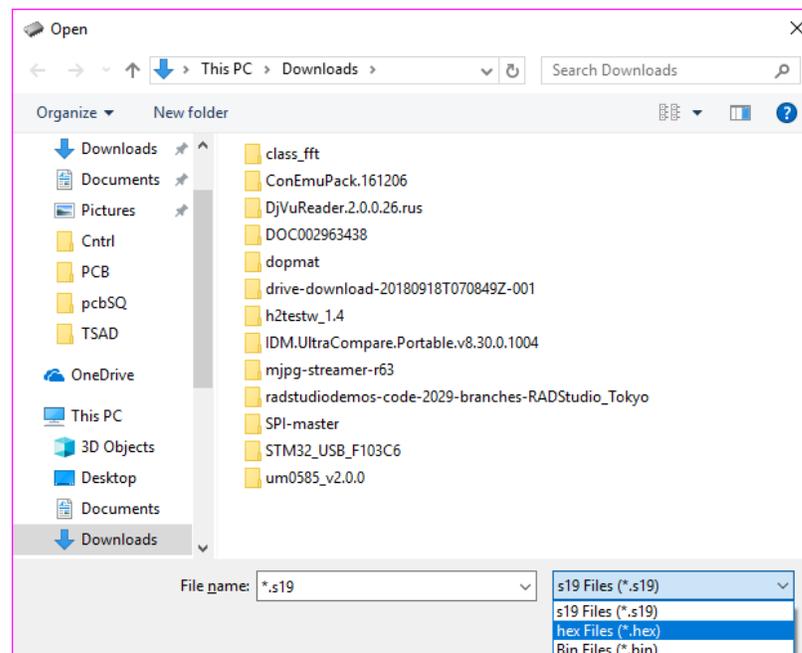


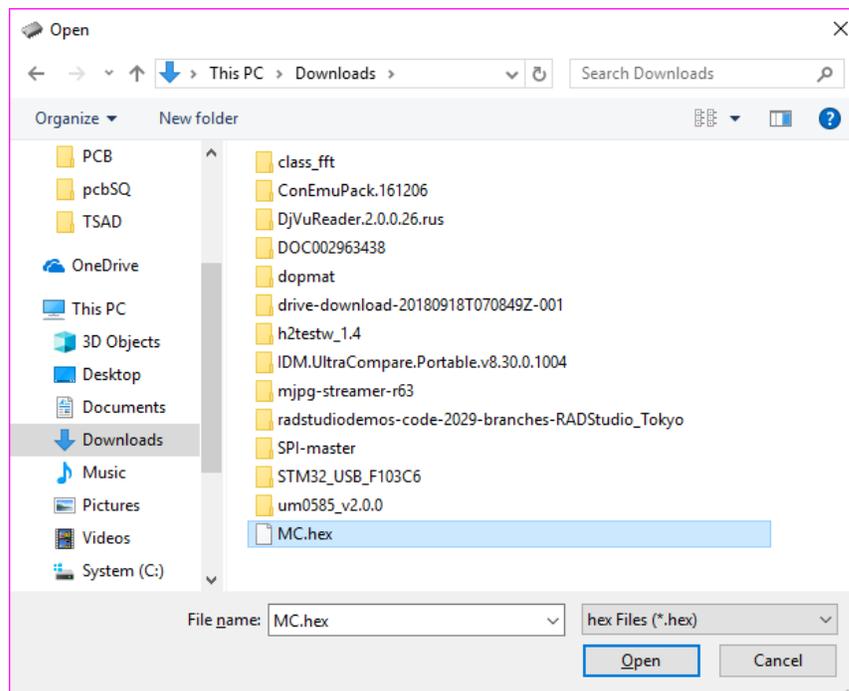
Press -> Next



Press -> Next

Select "**D**ownload to device". Search and ~~destroy~~ open downloaded firmware file **M**C.HEX.



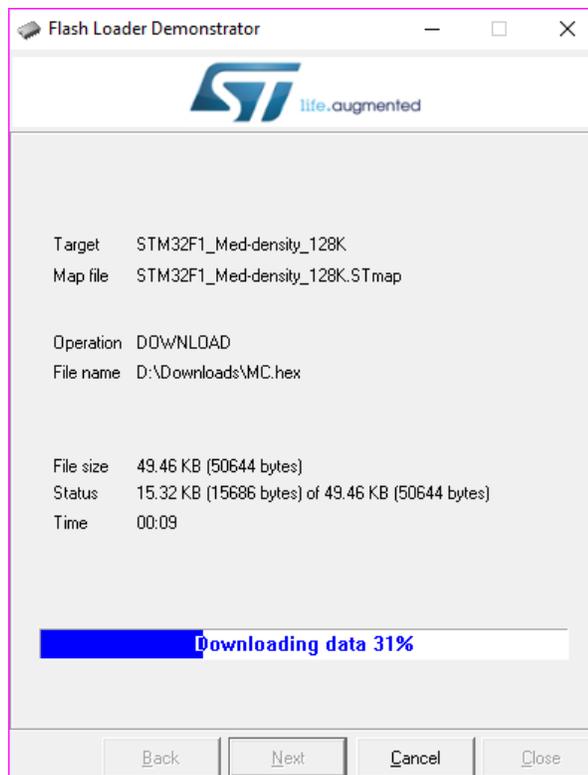


Press-> Open

Then

Press -> Next

Wait until the end of download

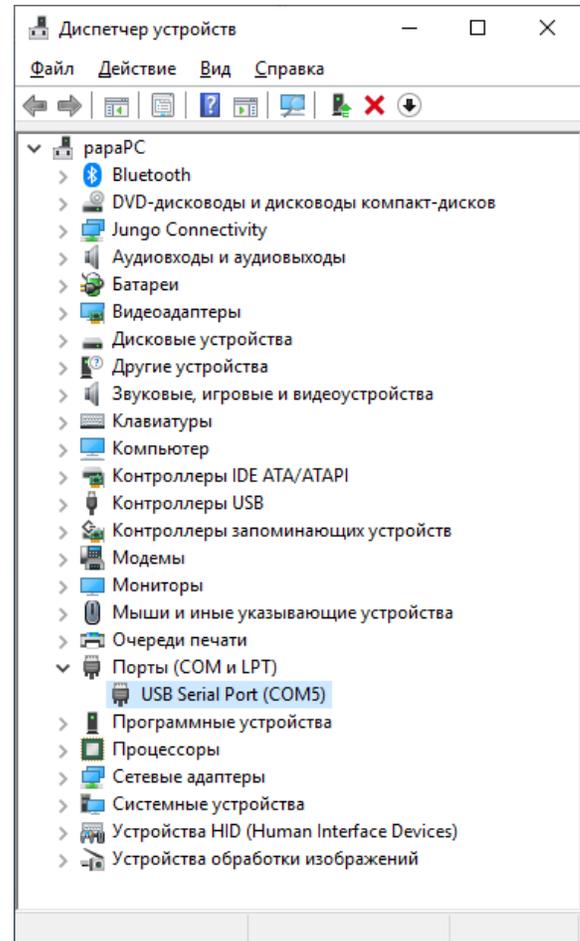
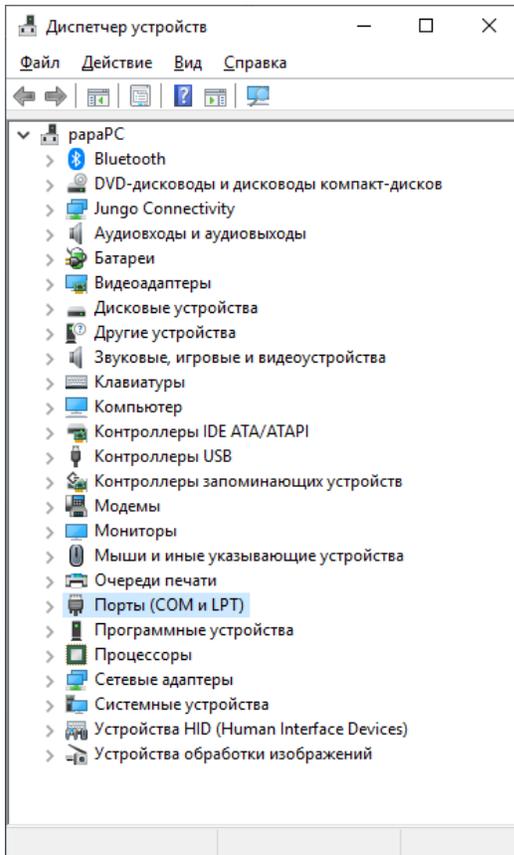


Press -> Close **Congrats, you now have musical lighting controller with installed firmware!**

Attachment: How to find out the COM port name

I will show you how to do this on Windows operating system; it will be easy to find the same for other systems in Google.

First, press on the start button, then type *devmgmt.msc* and press Enter.



Select Ports (COM & LPT)

Here will be the port you needed, in my case it is **USB Serial Port**, my **USB-COM** converter. If you have more than one COM port in the list, you will probably easily figure out, which one is right.

Good luck!