

# Setup

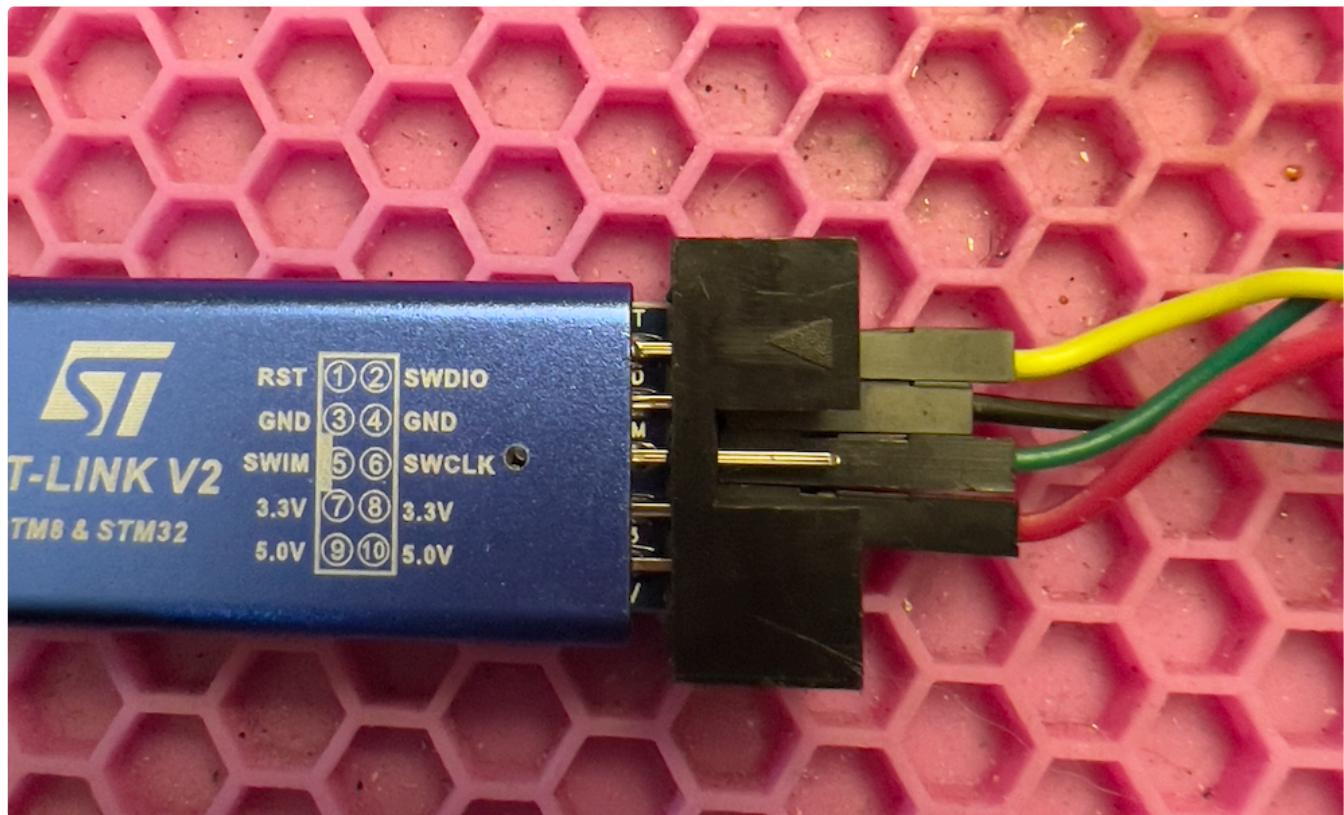
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1. Install STM32Cube Programmer software
2. Install AVRDUDESS
3. Install ZADIG

## Program the GD32F303

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Connect STLinkV2 to PCB.

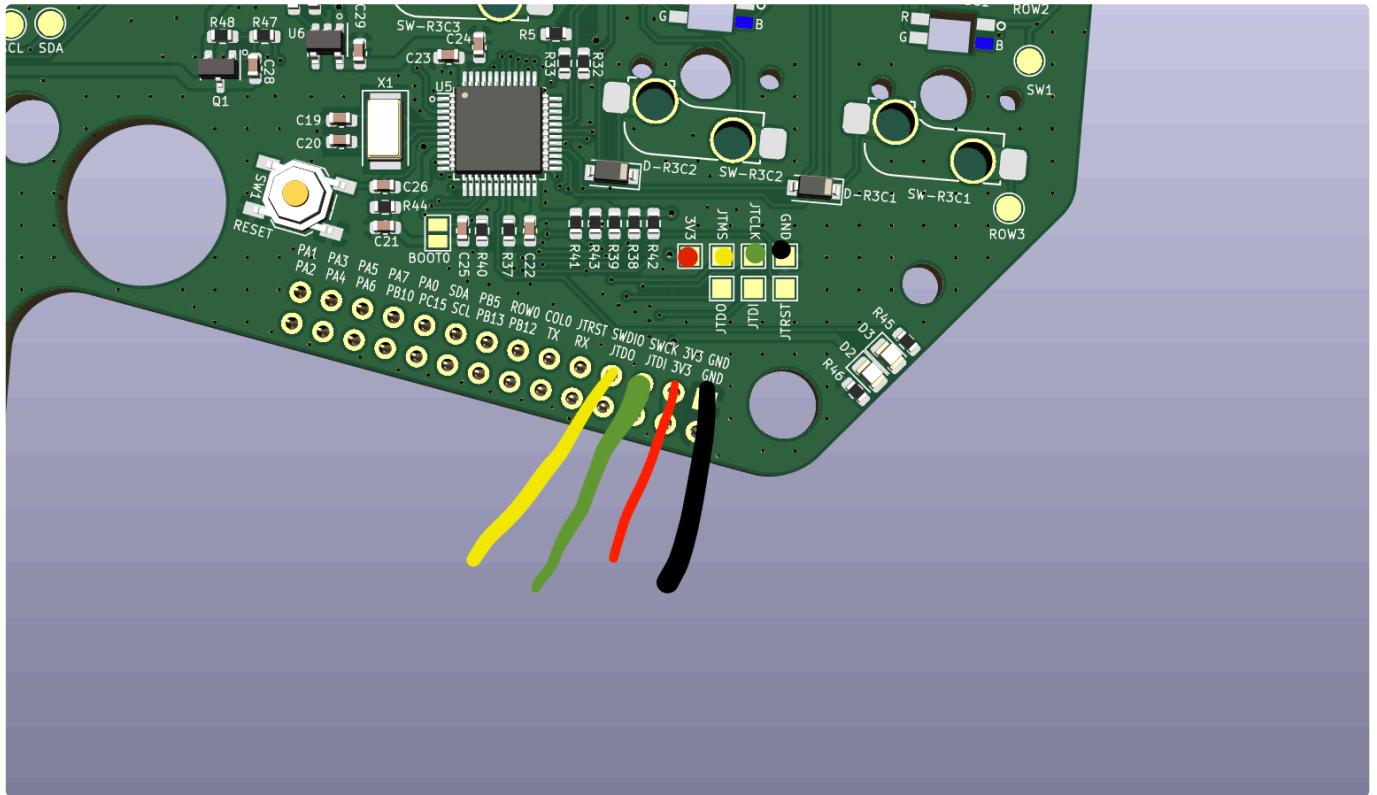


You need only four wires:

SWDIO  
SWCLK  
GND  
3.3V

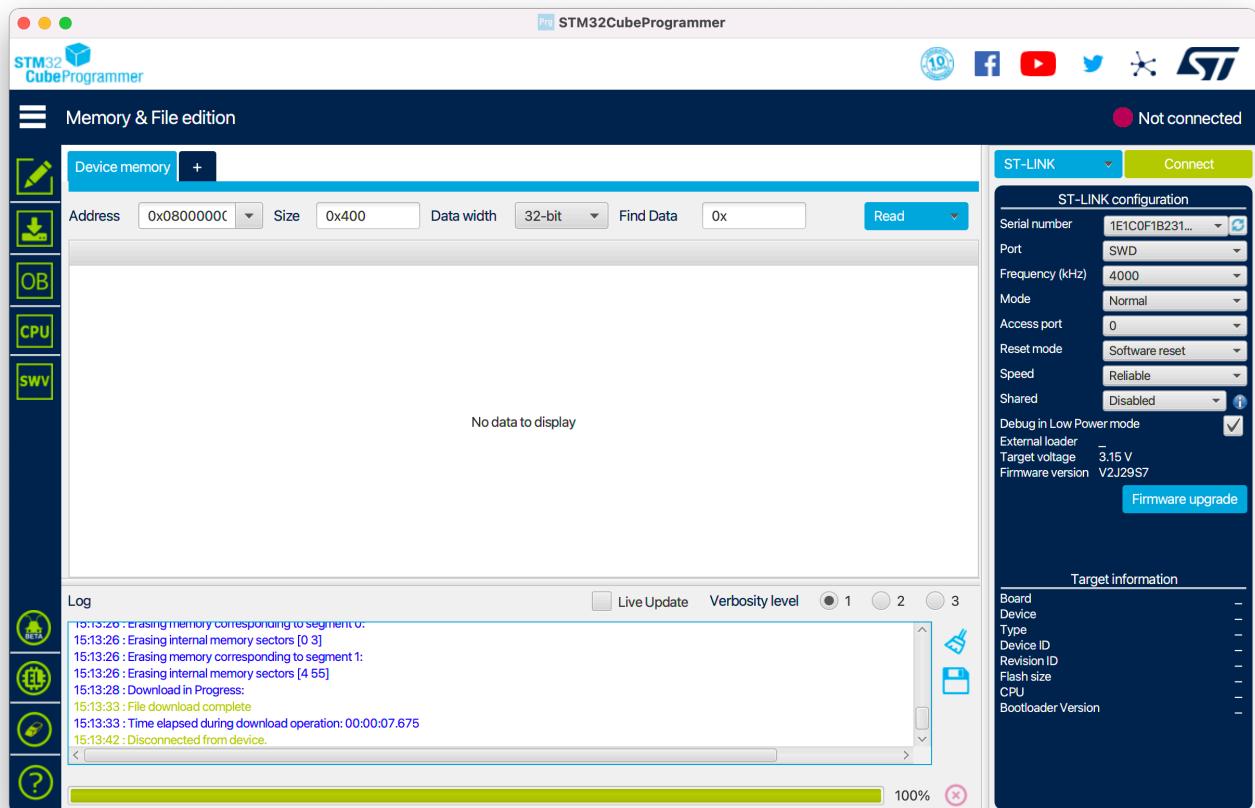
In the picture,  
SWDIO = YELLOW  
SWCLK = GREEN  
GND = BLACK  
3.3V = RED

Connect them to the PCB:

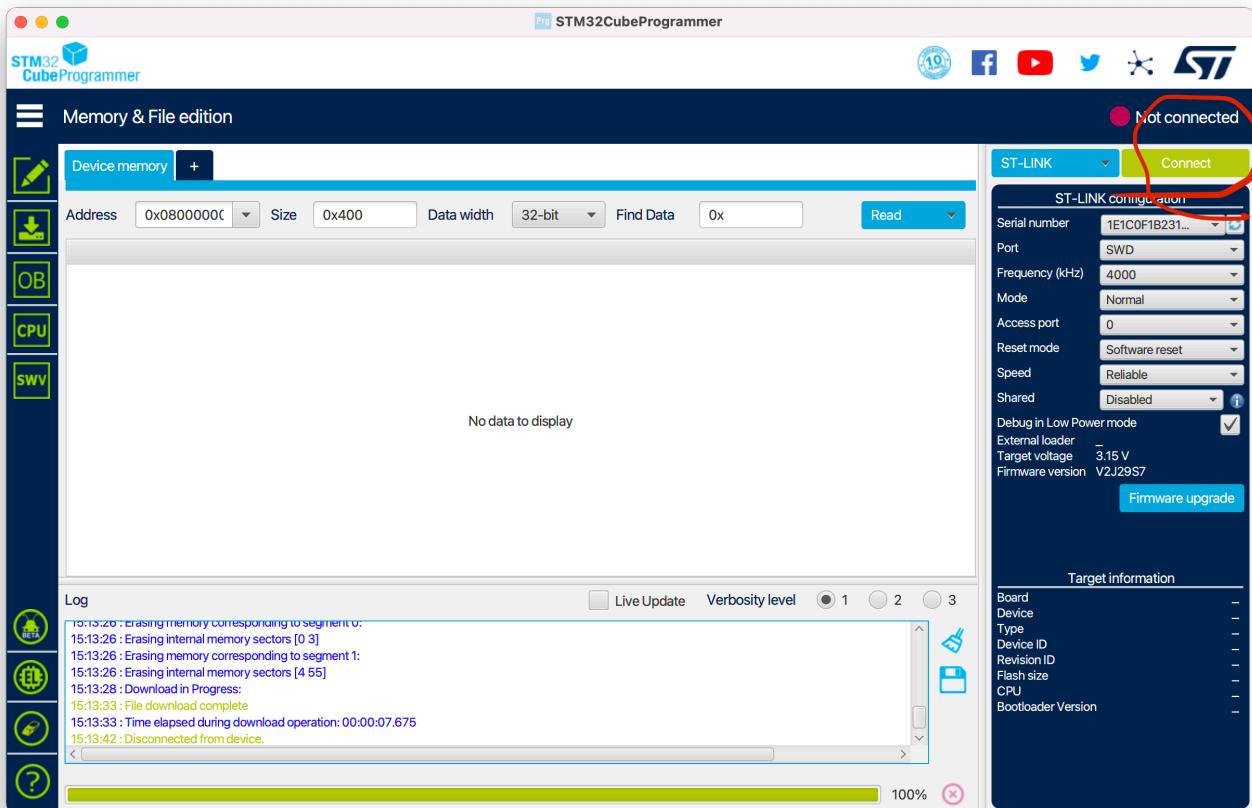


## Run STM32CUBEPROGRAMMER

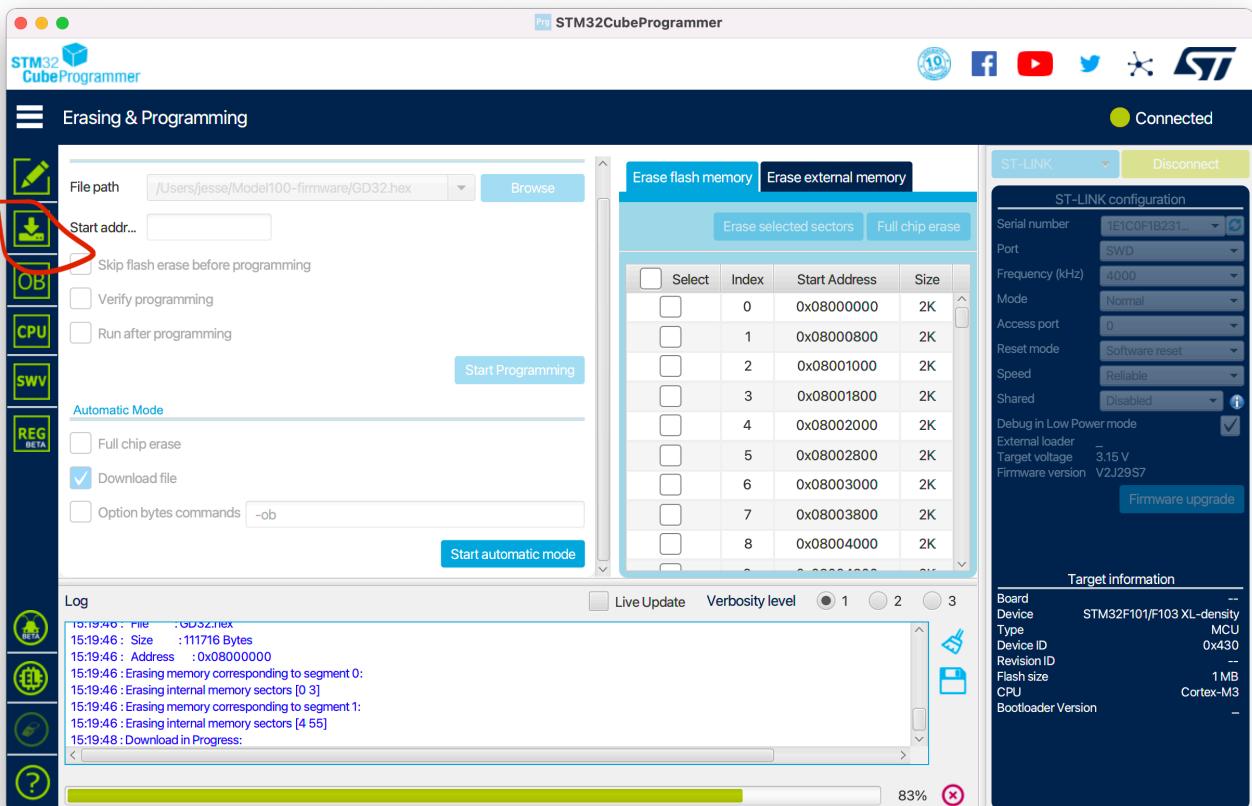
You will see this screen:



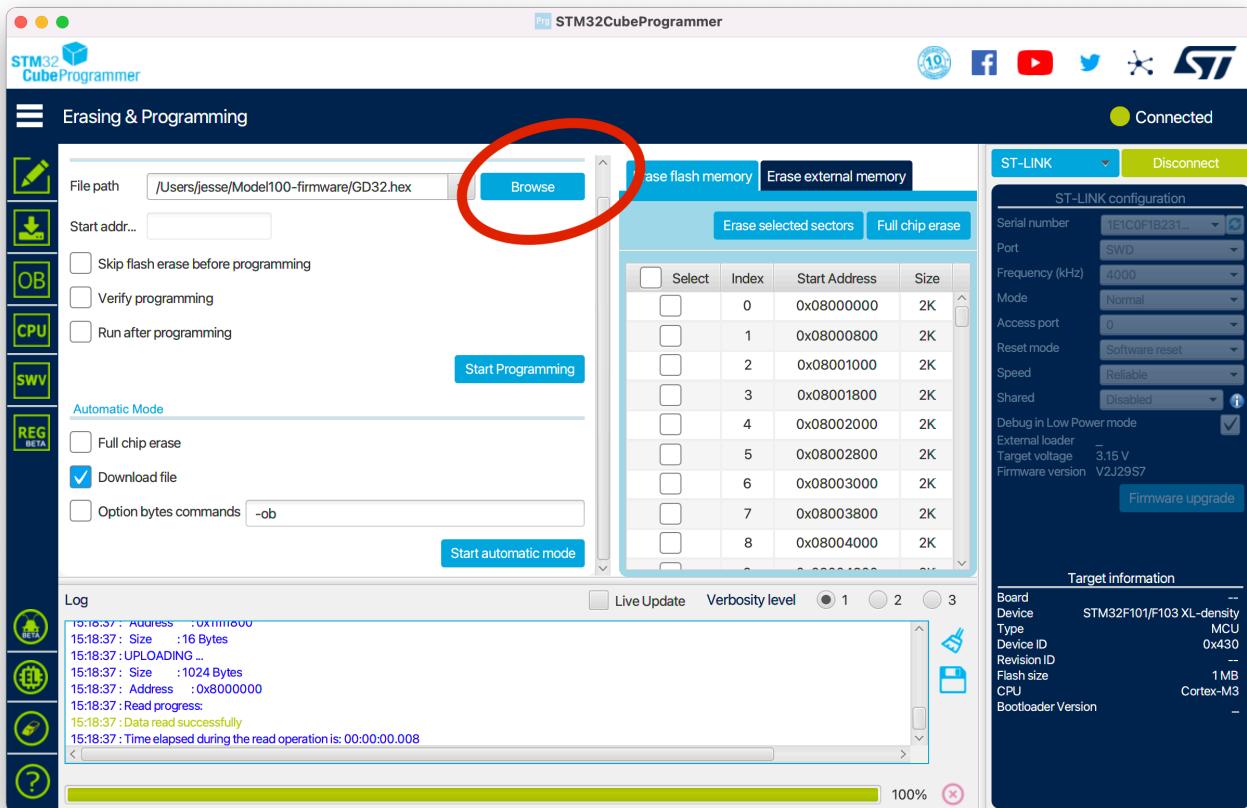
Click connect



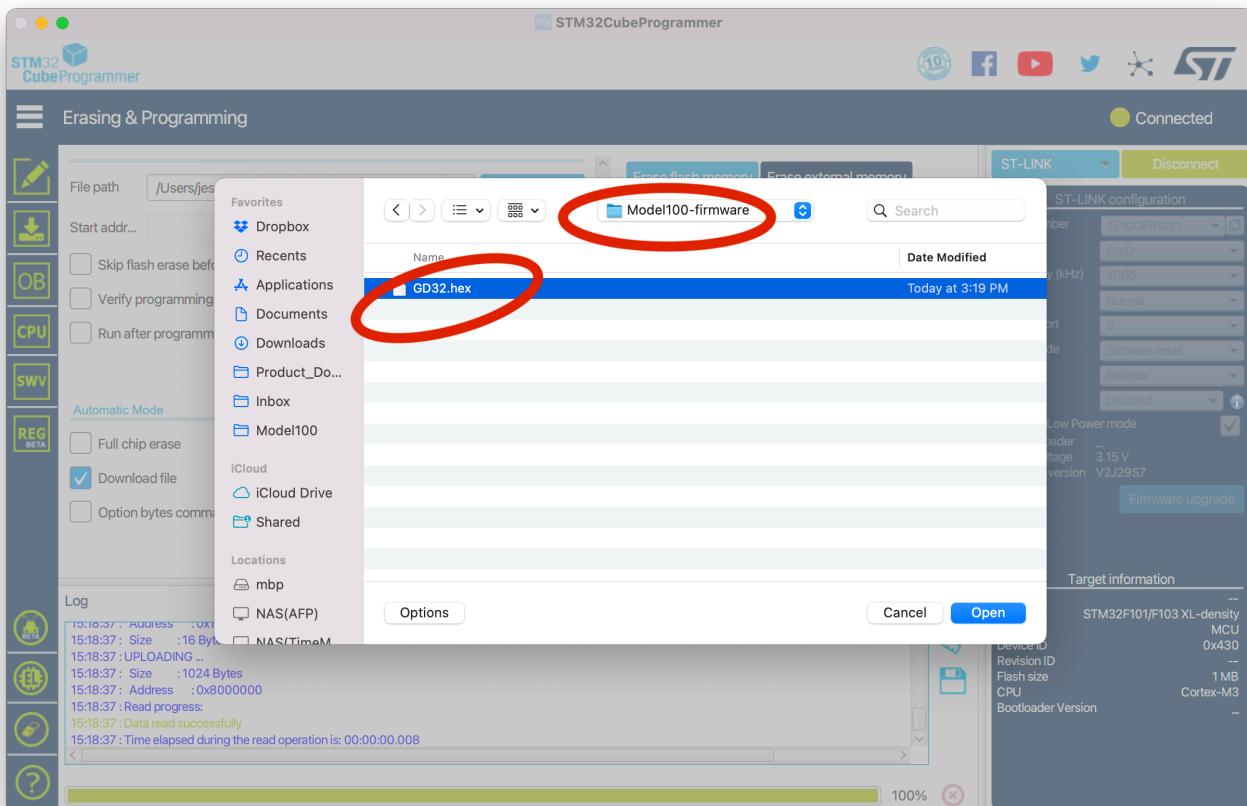
Click the downloadAVRDUDESSn:



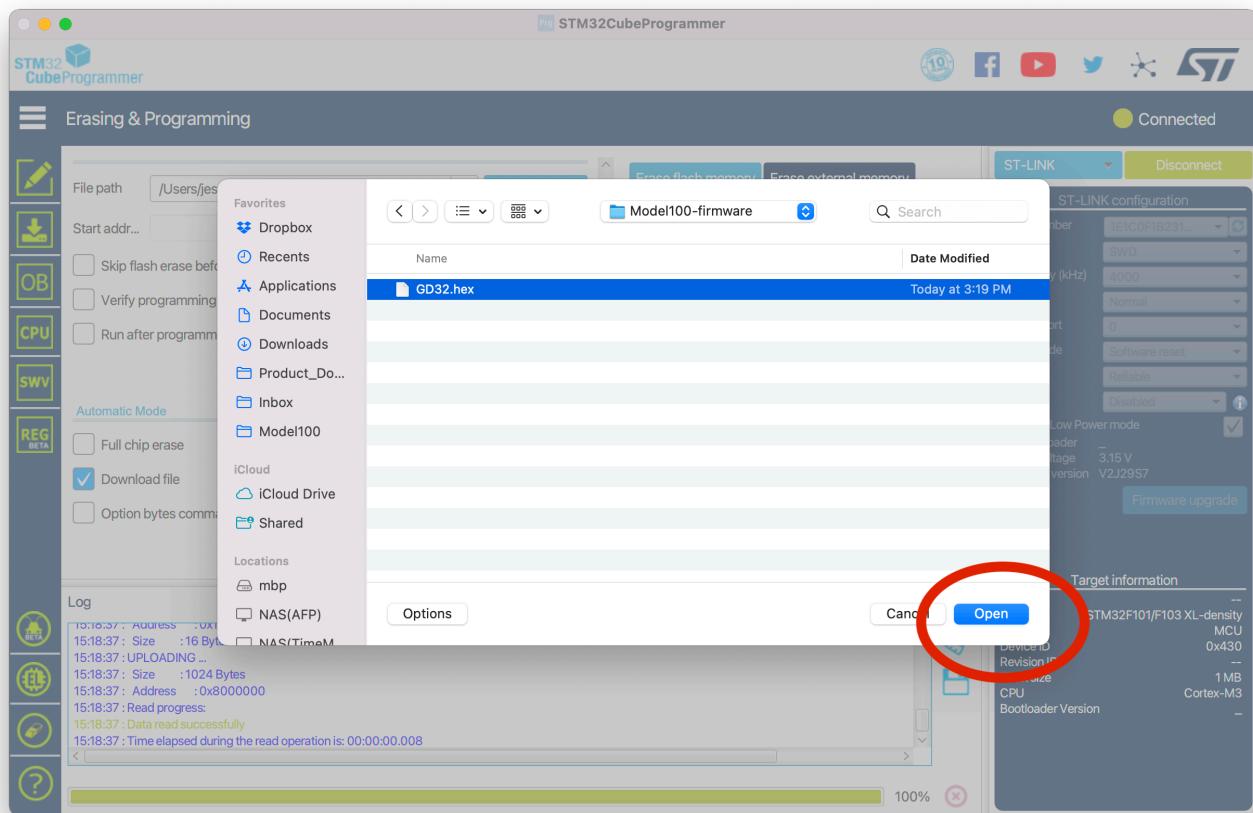
Click "browse":



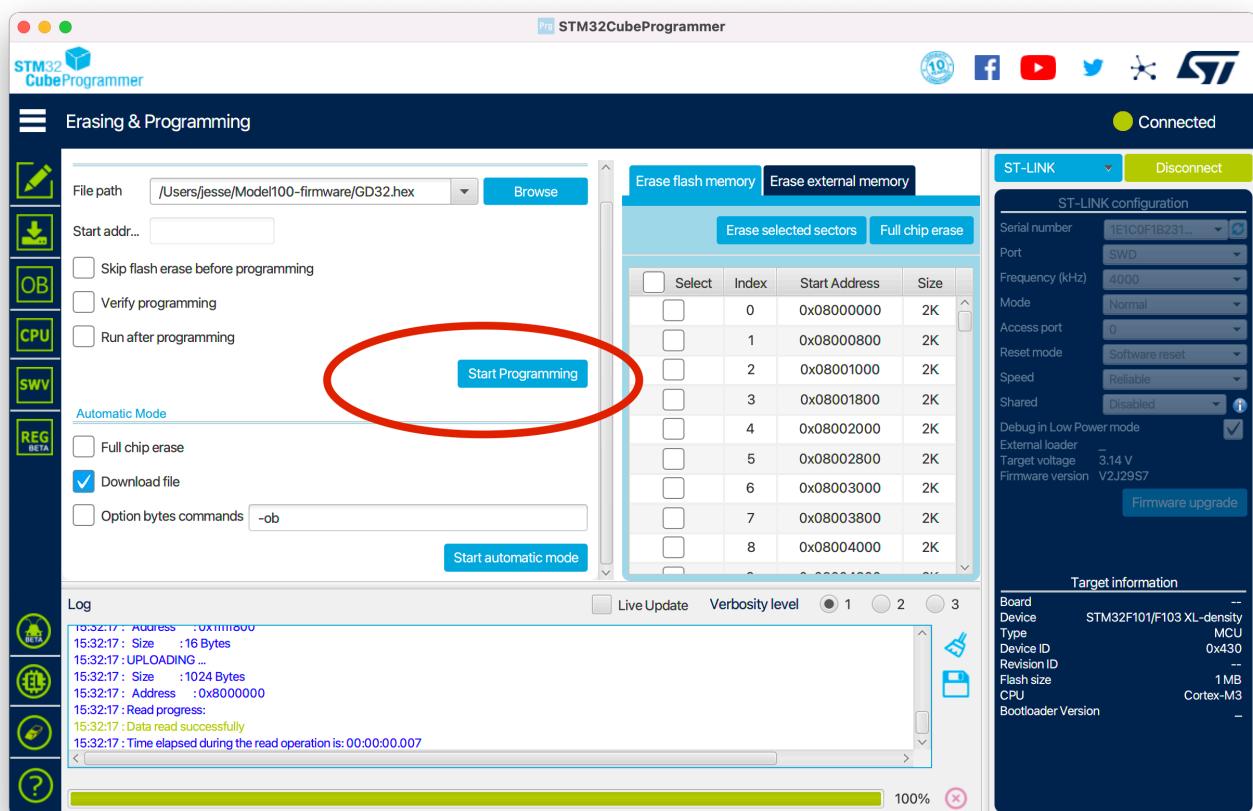
Pick GD32.hex in the Model100-firmware directory:



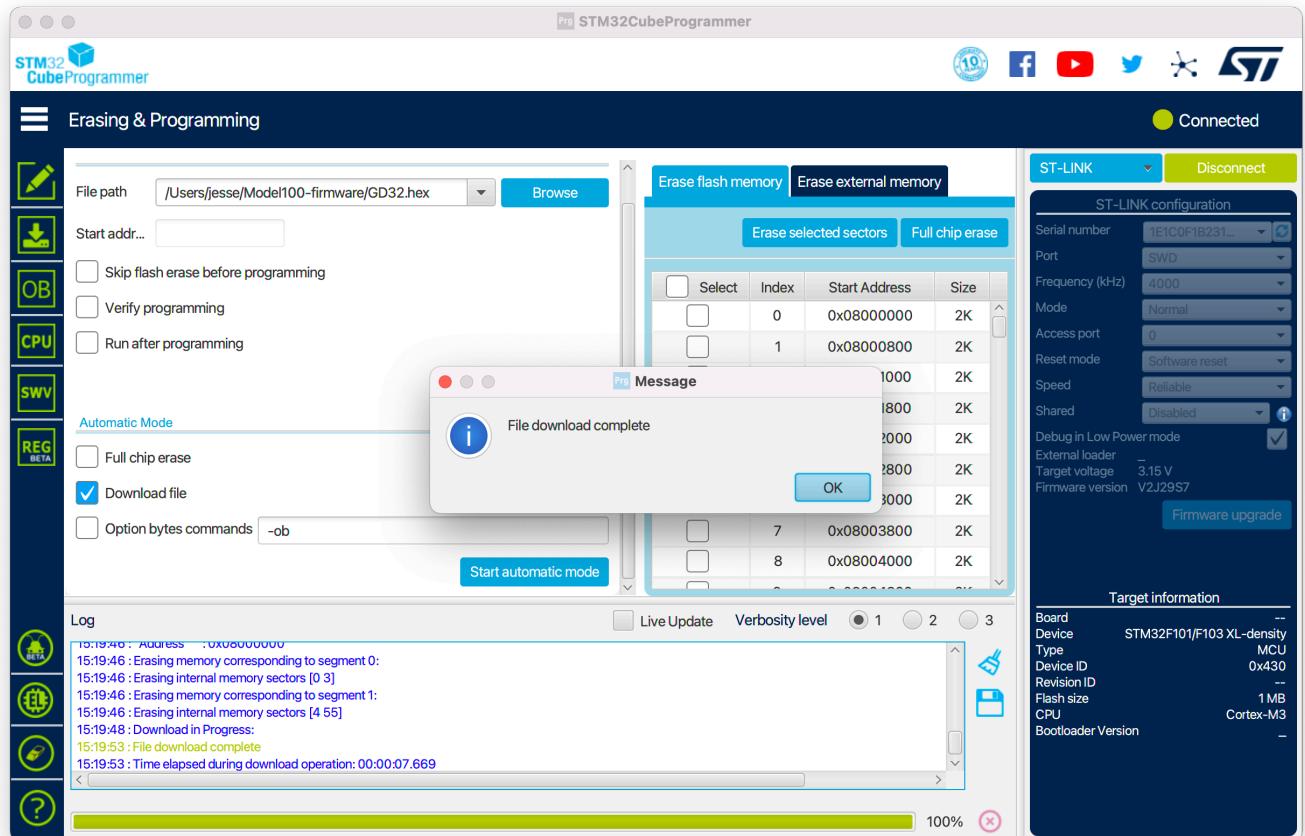
Click "Open"



Click "Start programming"

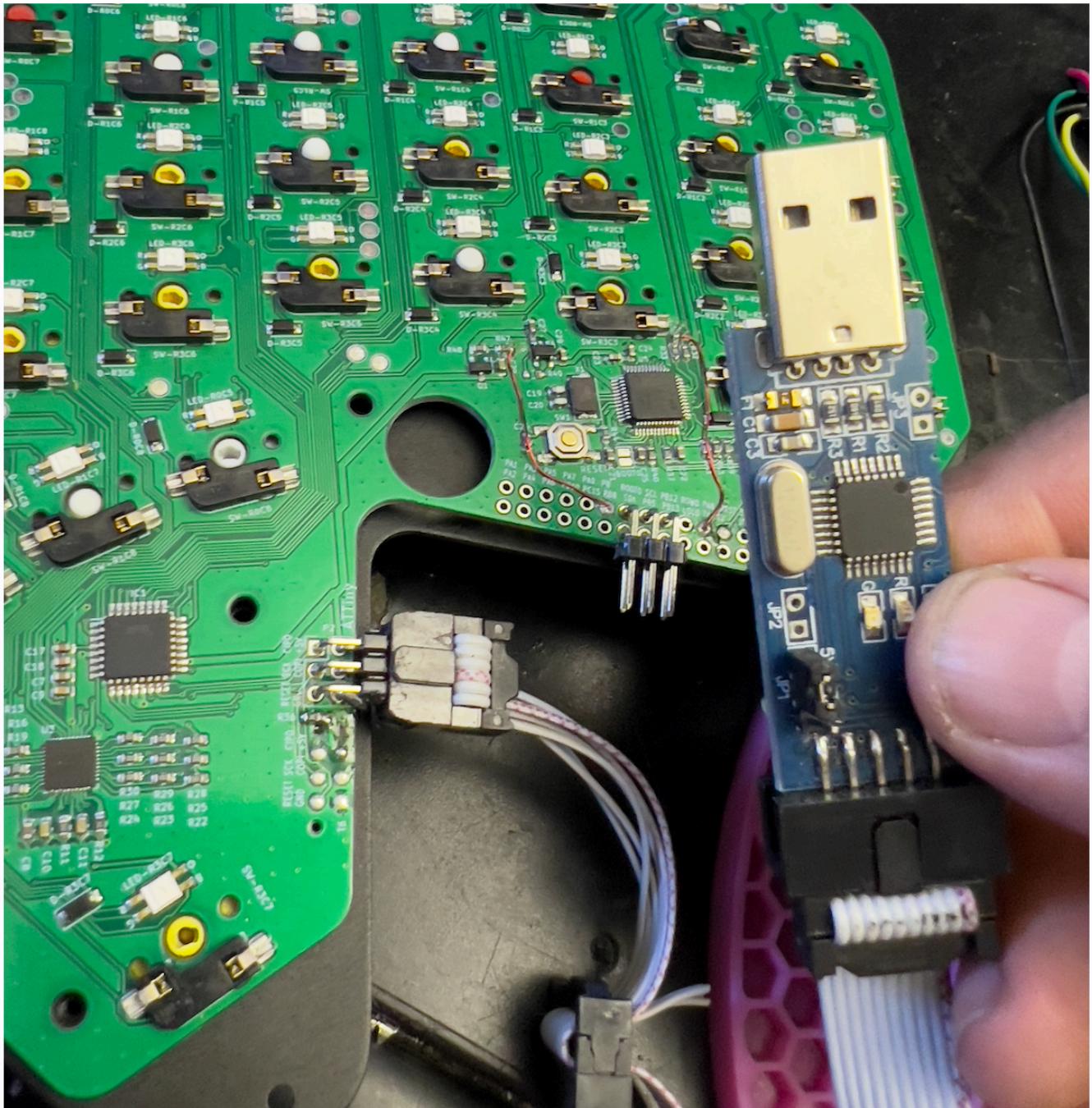


When it's done, it will say:



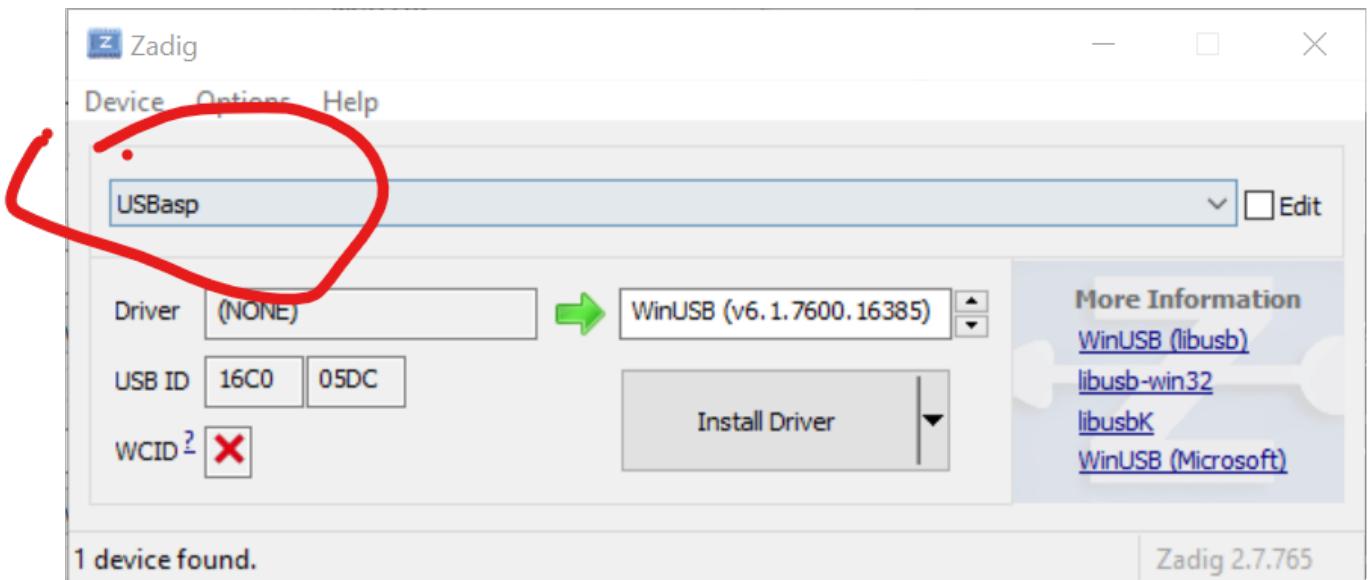
## To program the ATTiny (same on both sides):

Plug in USBAsp

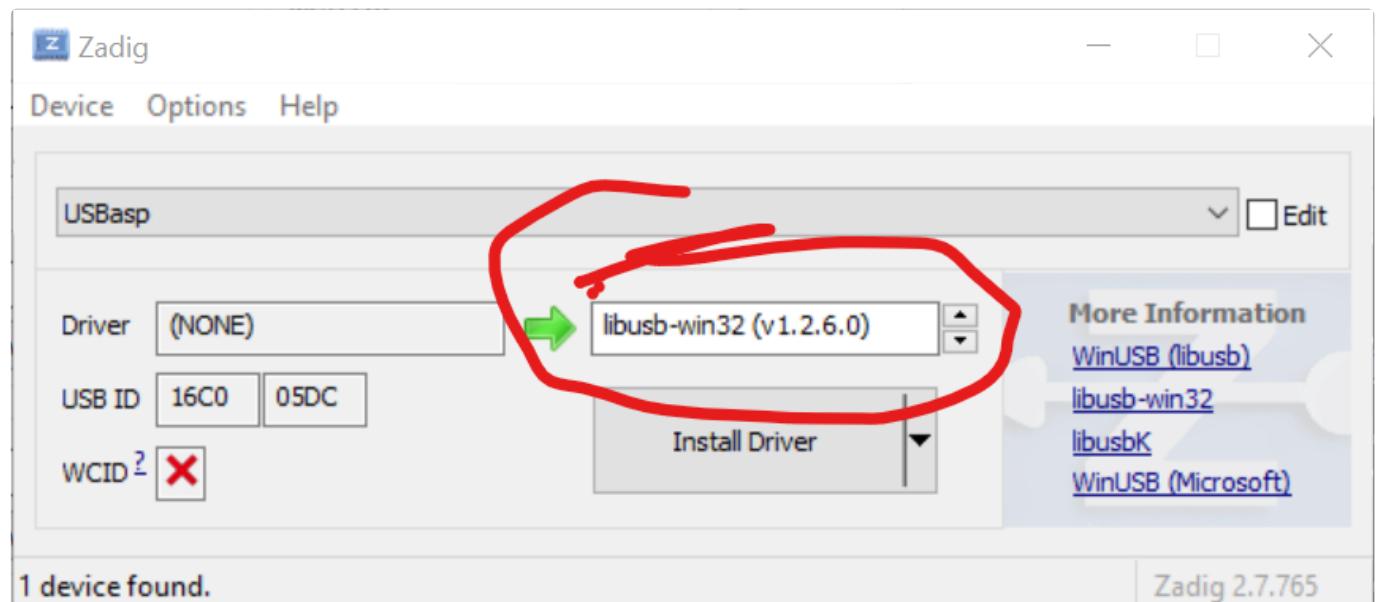


Start Zadig

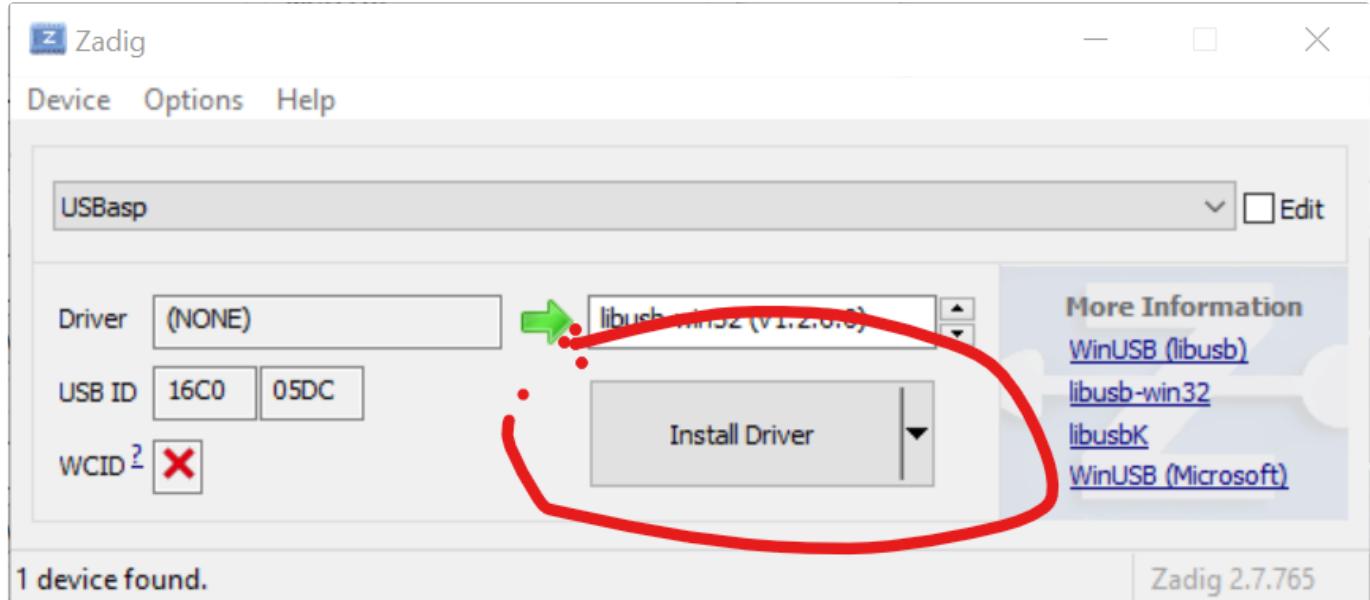
Pick USBAsp:



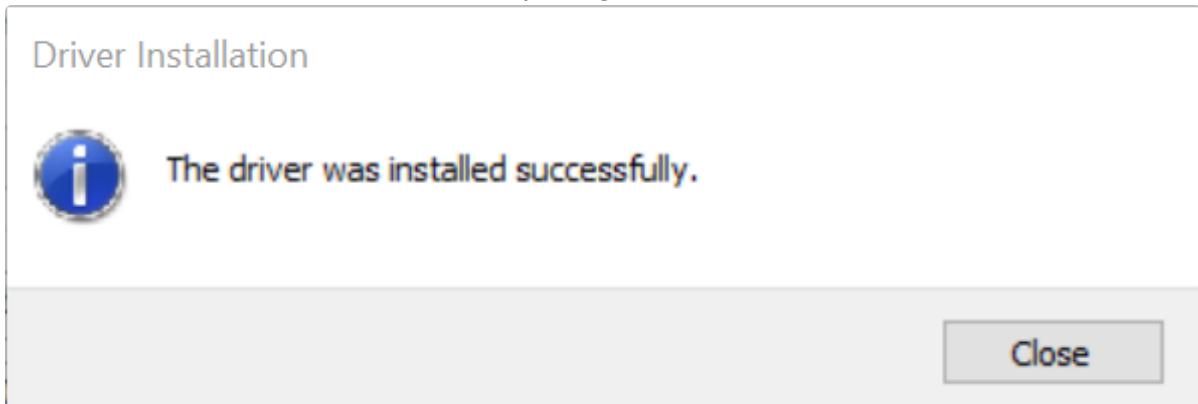
Pick libusb-win32:



Click "Install Driver":



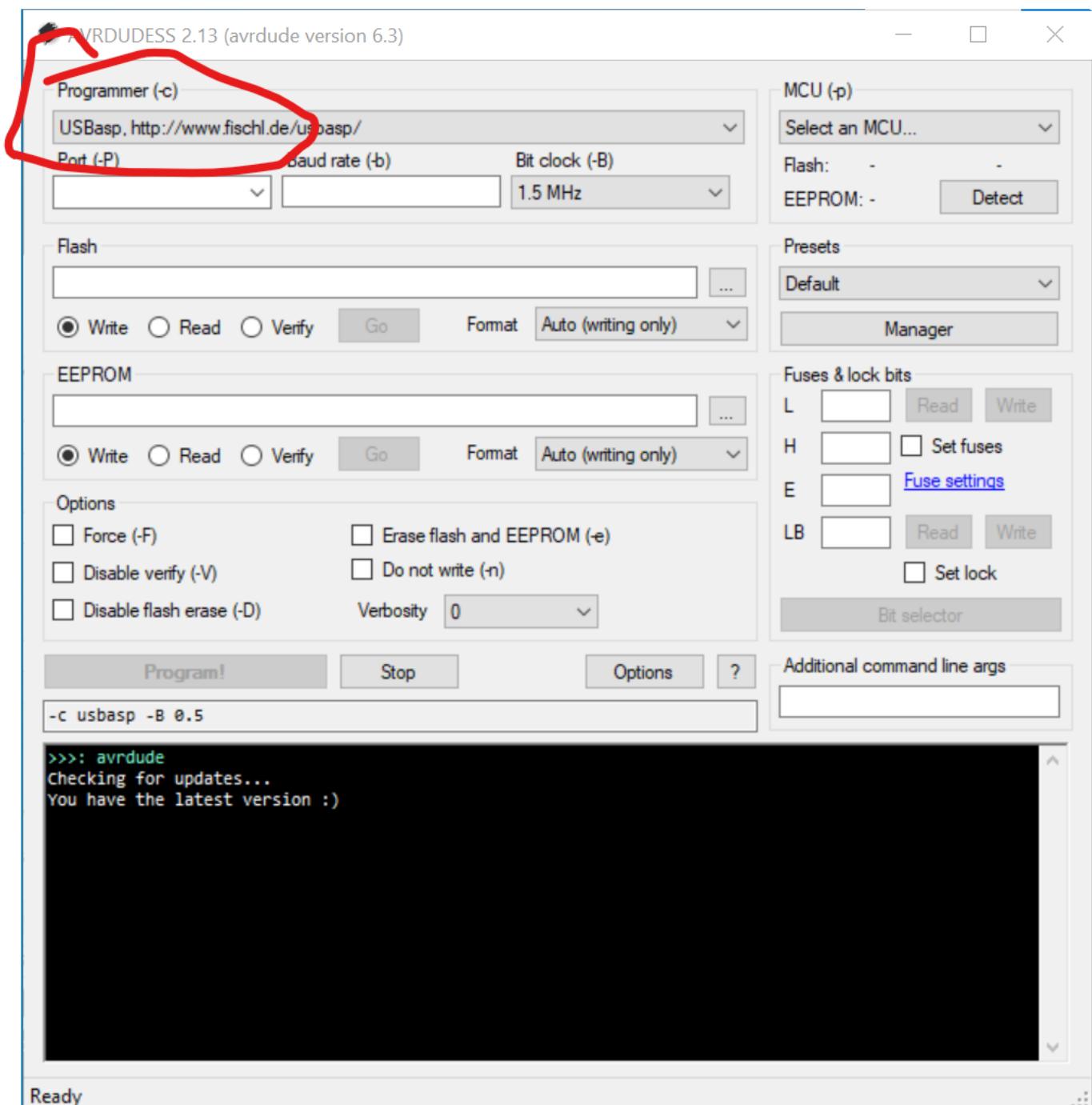
It will take 2-3 minutes and then if everything is ok, will show:



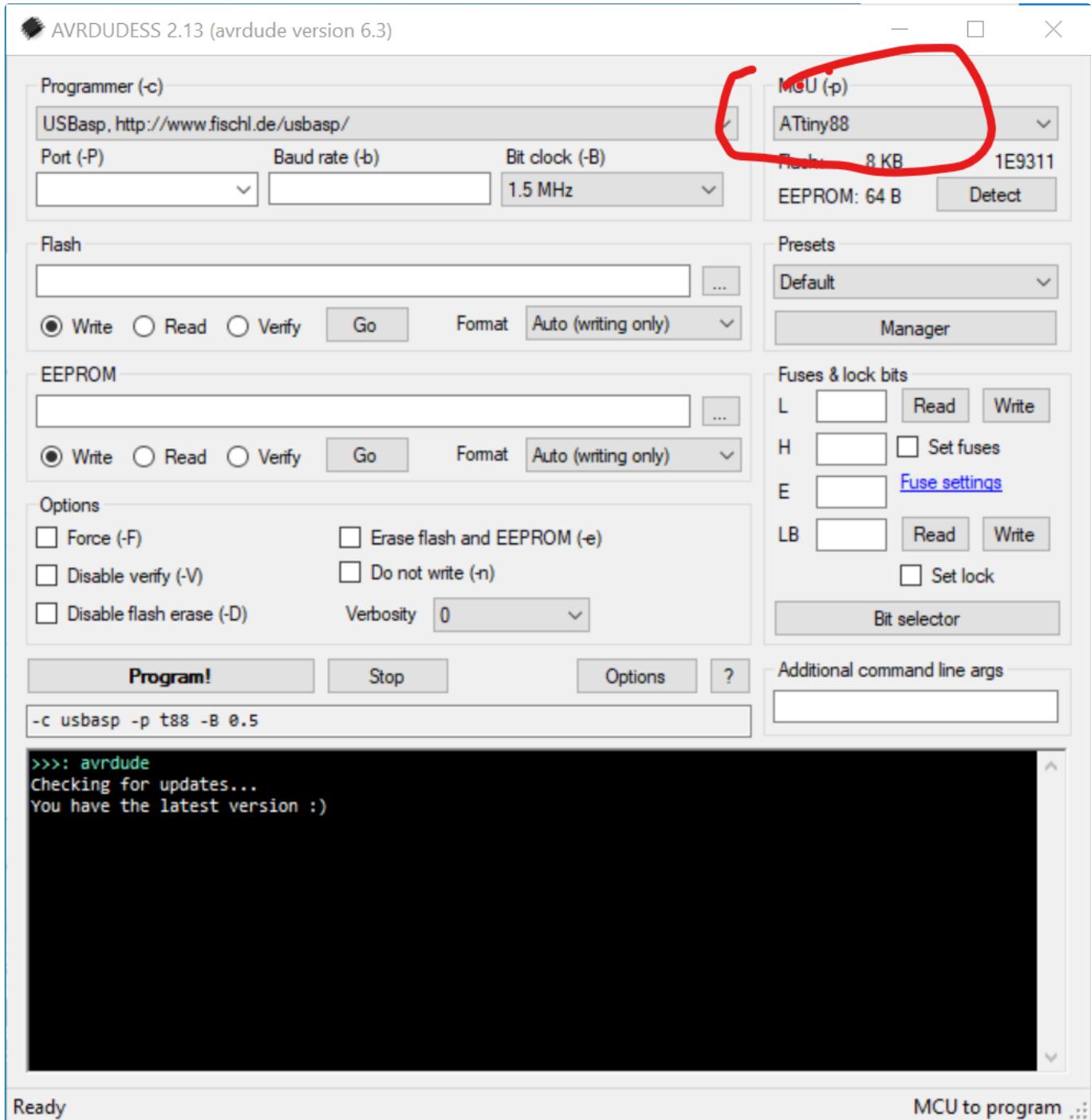
Quit Zadig:

Run AVRDUDESS

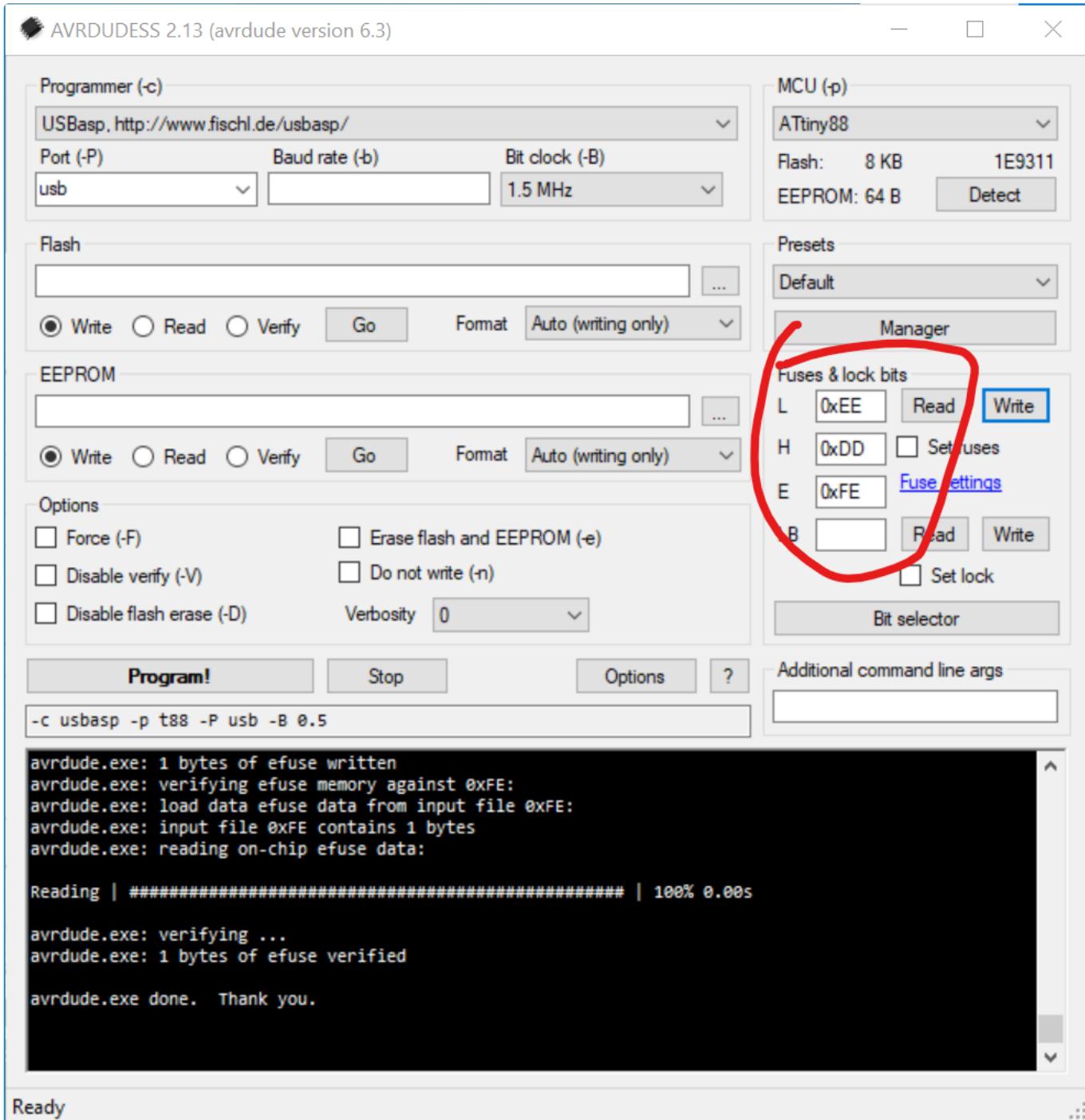
Pick USBASP



Pick ATTINY88



Set the fuses

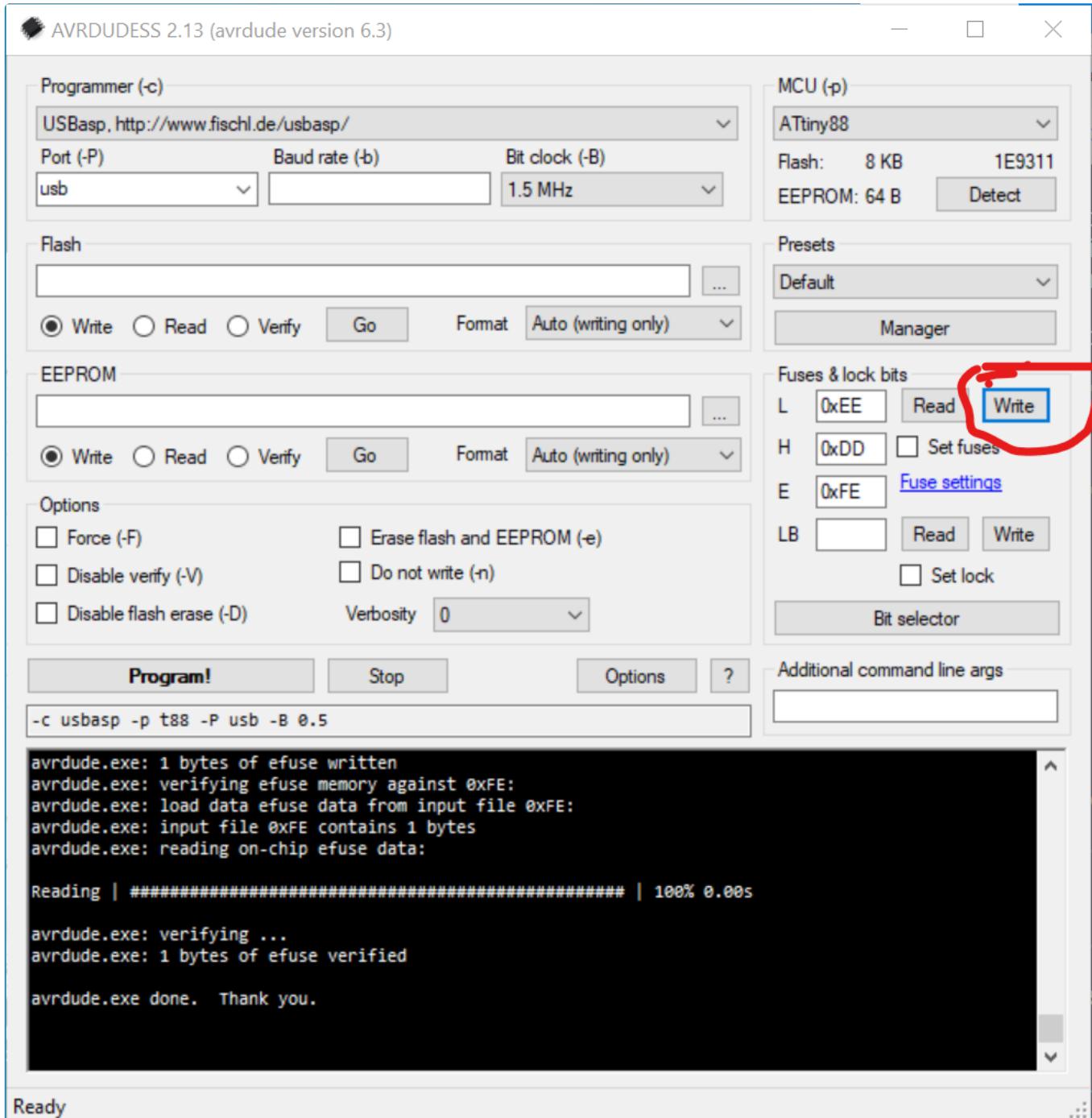


L: 0xEE

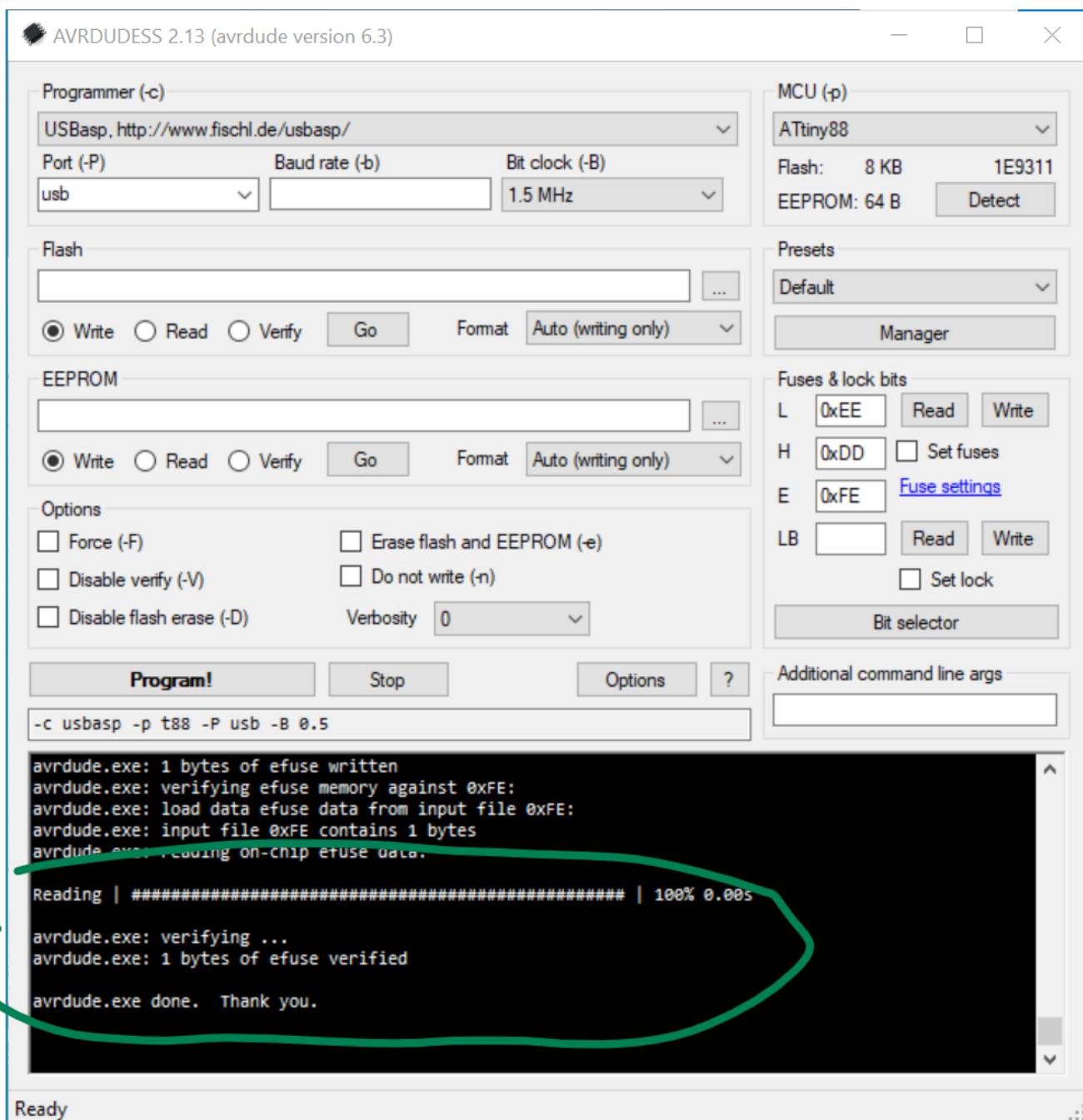
H: 0xDD

E: 0xFE

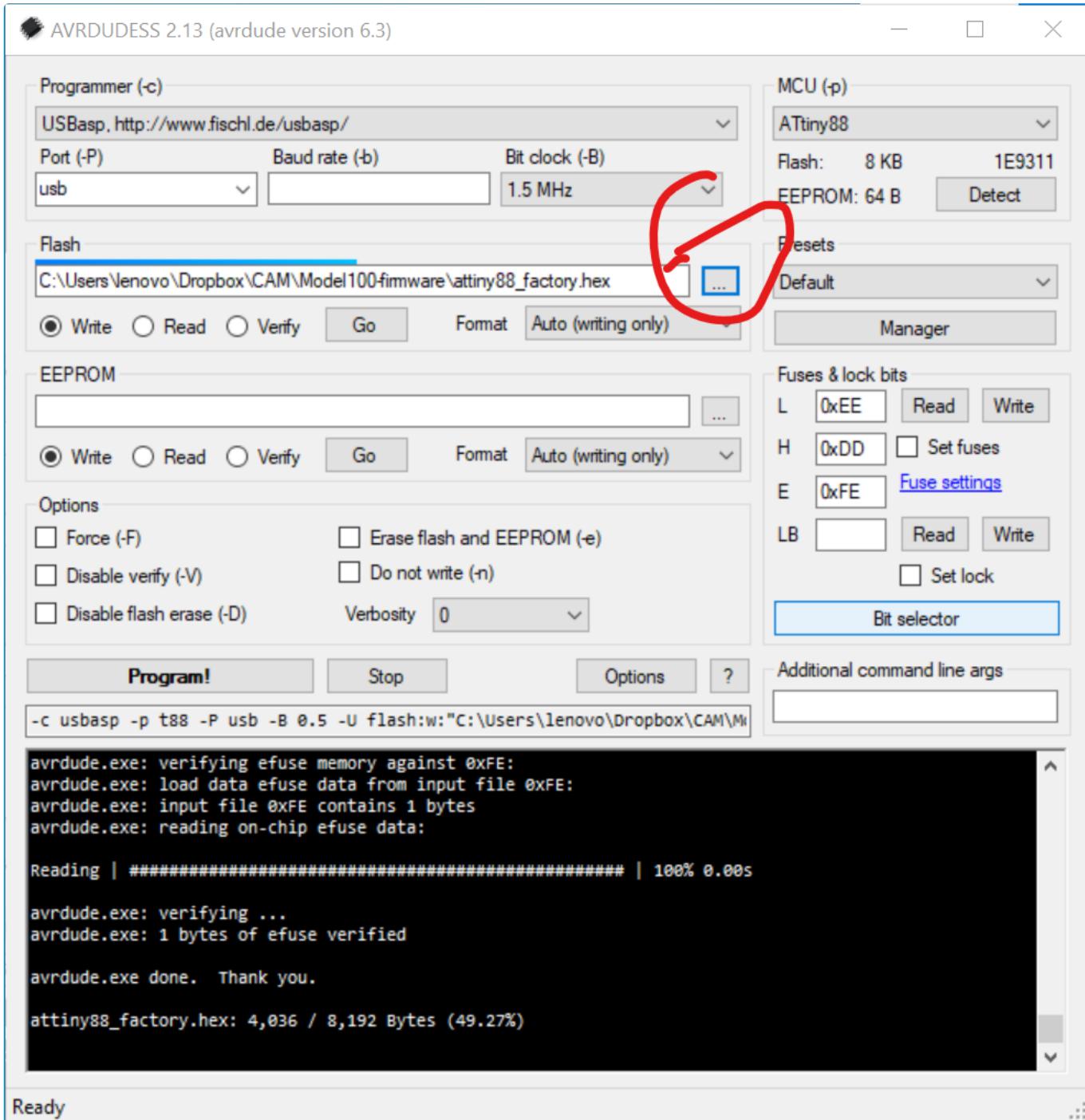
Click "write"

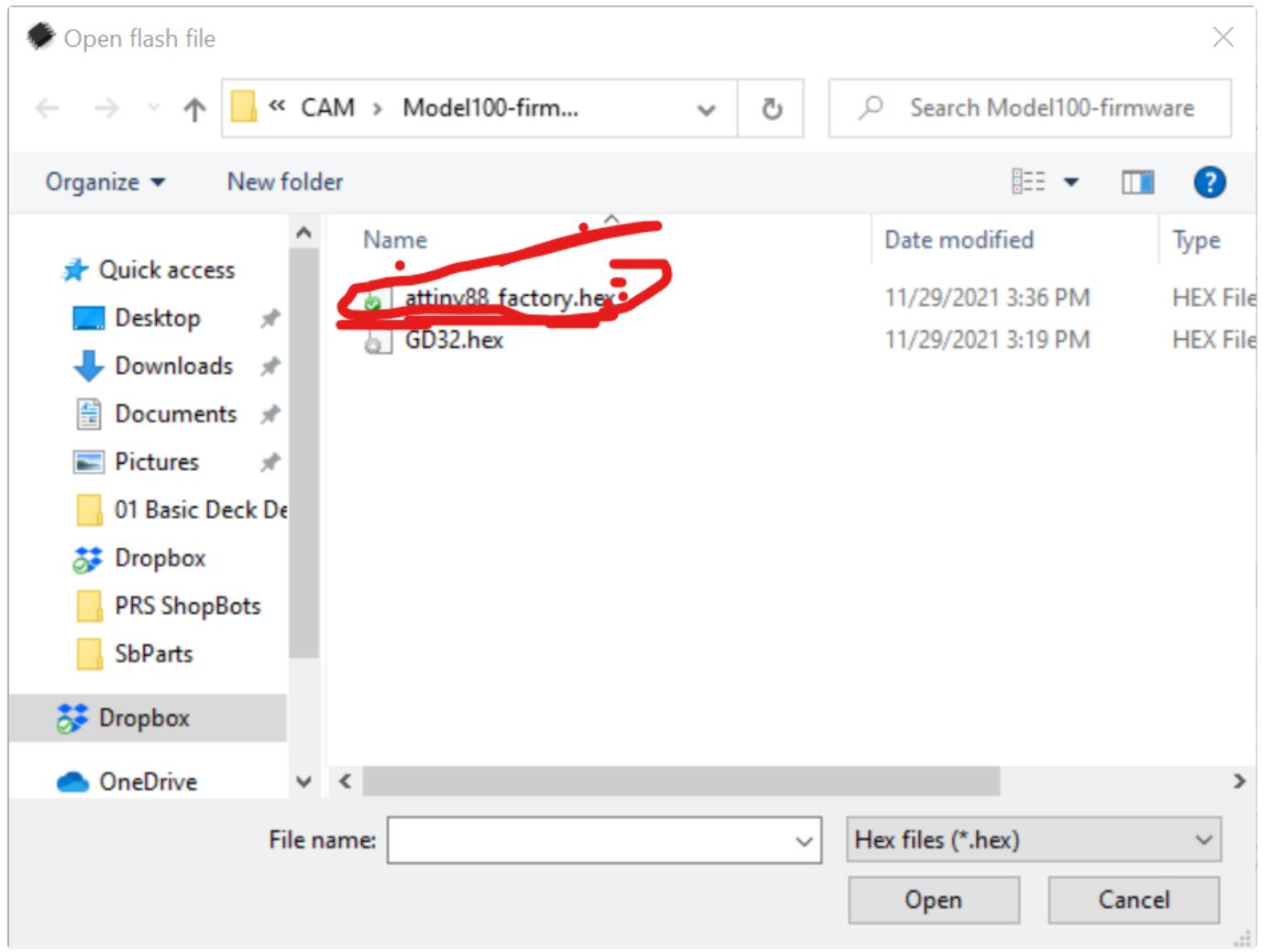


If the fuses look ok, you will see:

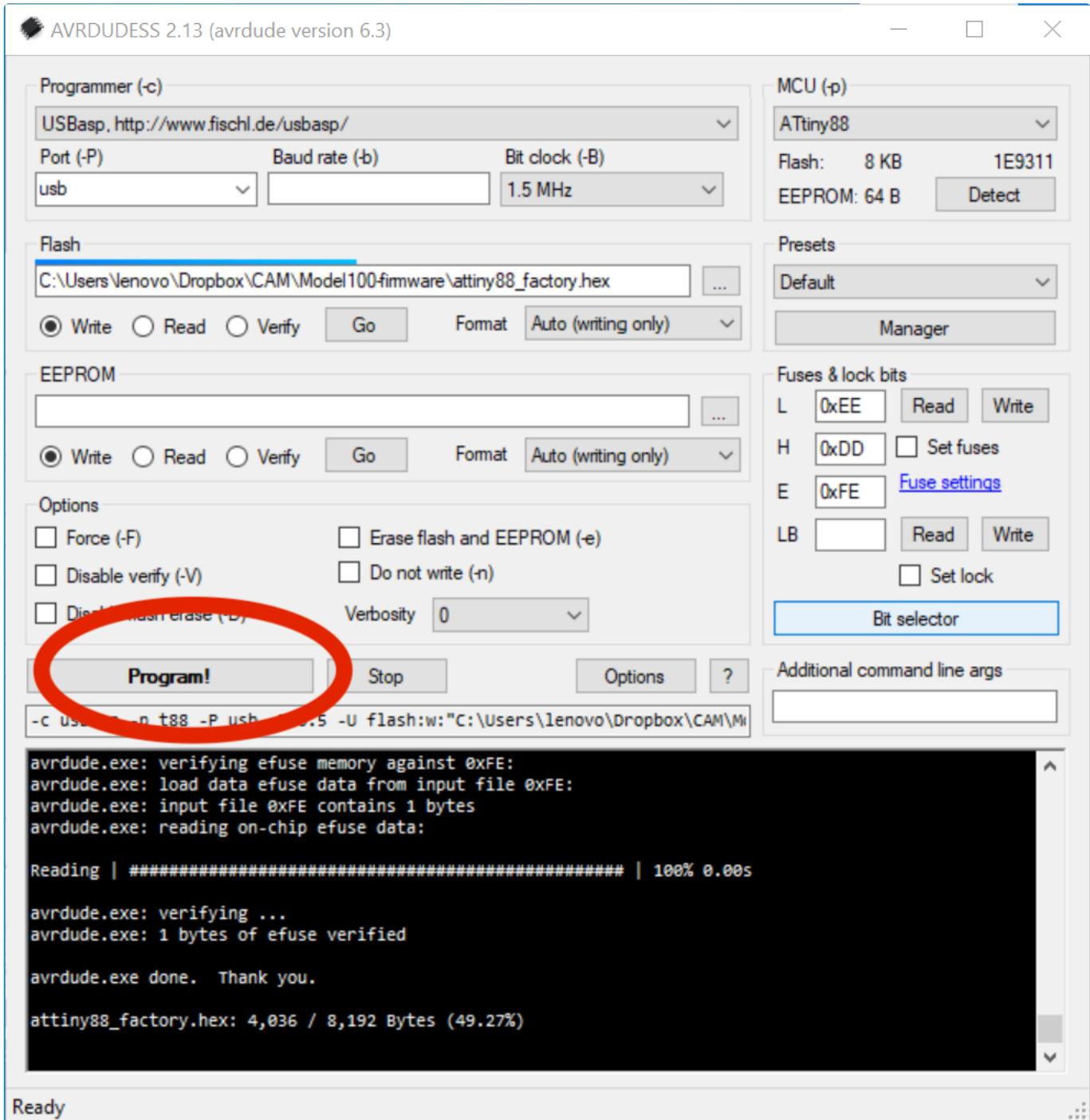


Pick the attiny88 firmware:

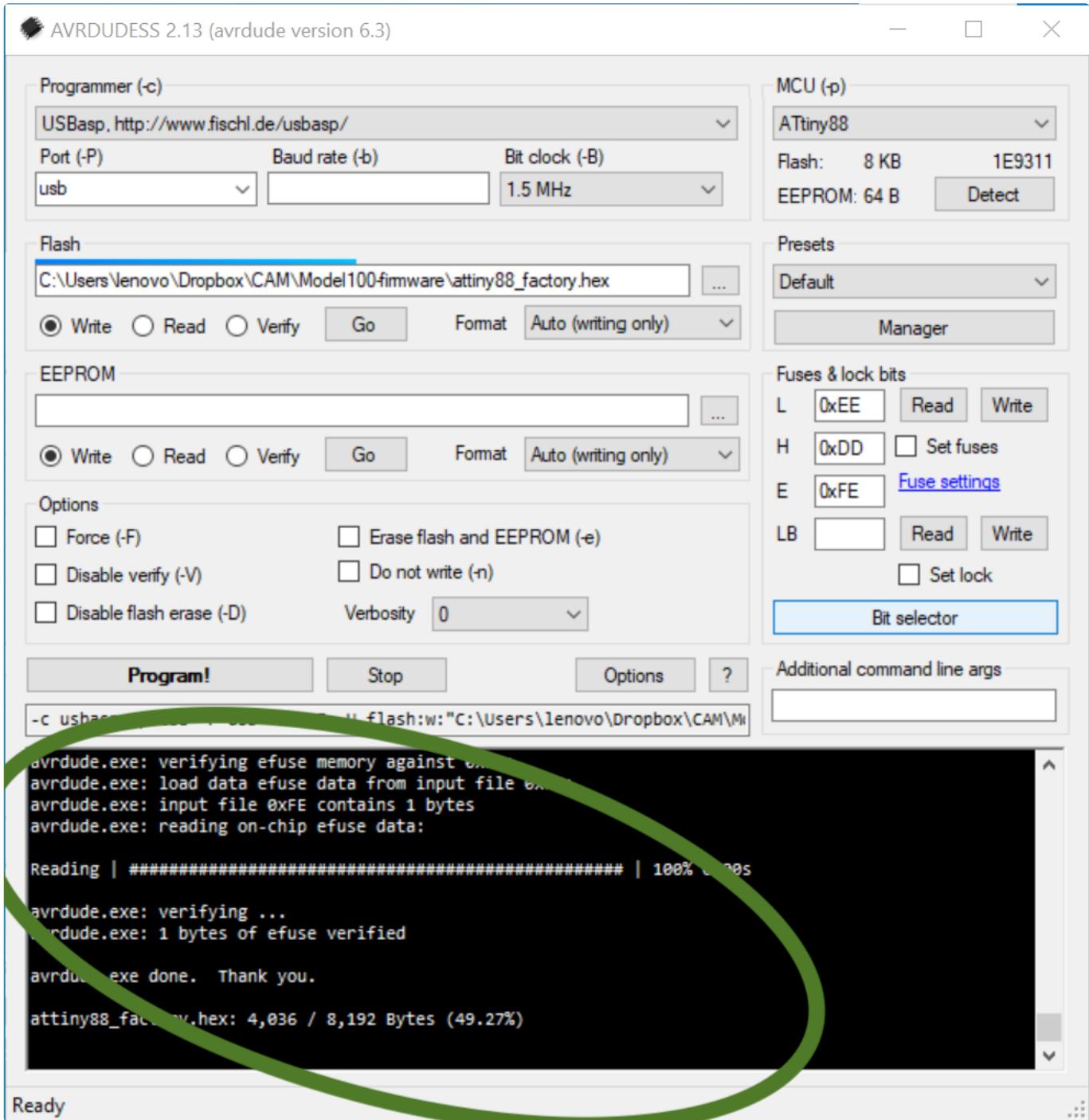




Click "Program"



If everything looks ok, you will see:



Disconnect everything and plug the keyboard into the computer alone.