

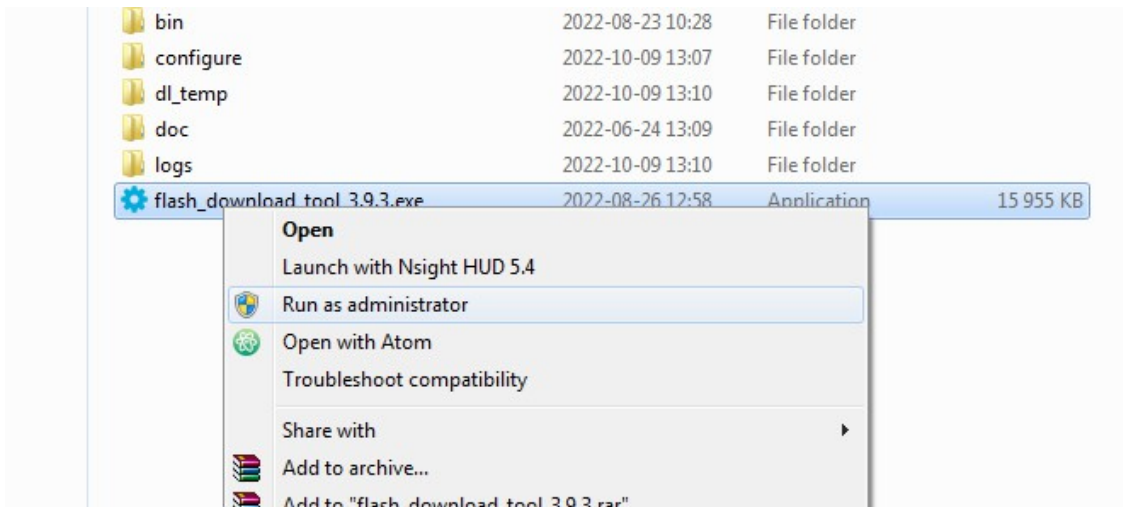
# Updating the Satran MK2/MK3 Firmware

1) First download the latest binary firmware from <https://www.satran.io/downloads> and then install the official "Espressif Flash Download Tools" for Windows PC:

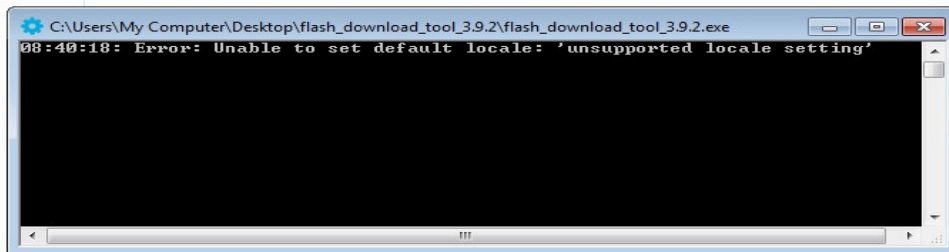
[https://www.espressif.com/en/support/download/other-tools?keys=&field\\_type\\_tid%5B%5D=14](https://www.espressif.com/en/support/download/other-tools?keys=&field_type_tid%5B%5D=14)

2) Unpack the compressed program files to a new folder

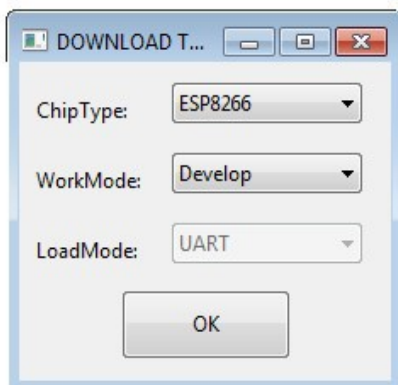
3) Right click the exe-file and choose to "Run as administrator"



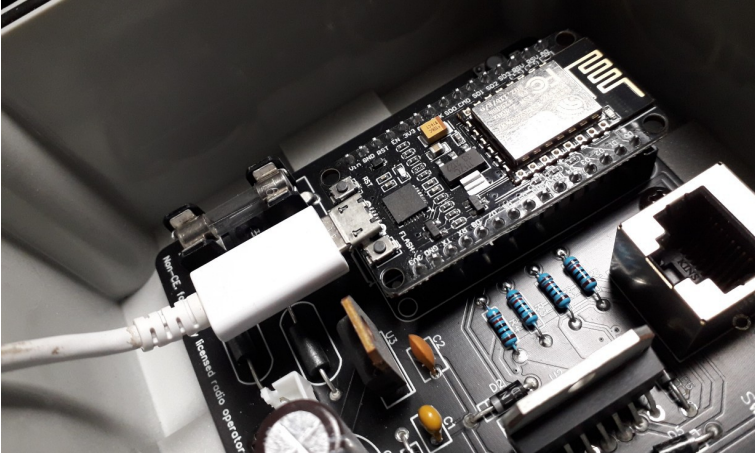
*The program opens a black terminal screen in the background that you should leave open*



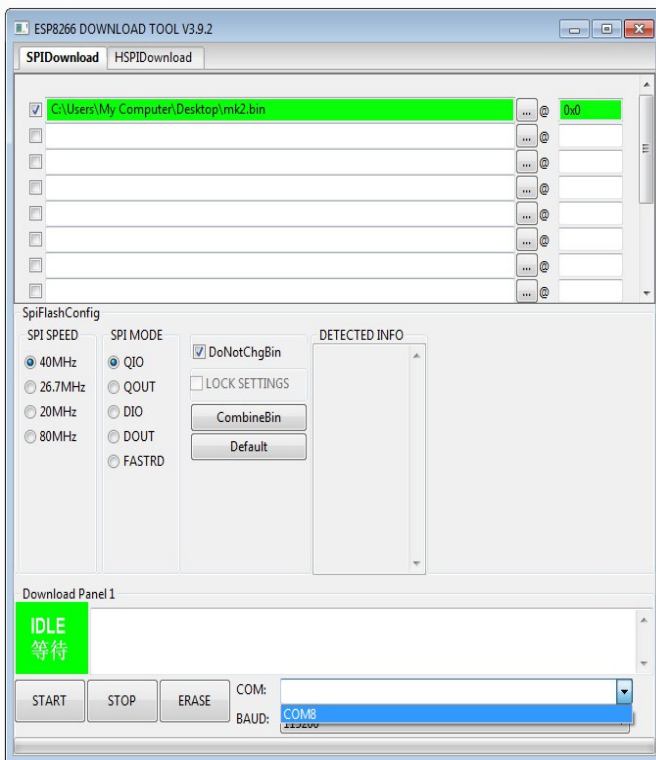
4) Choose default ChipType "ESP8266" and WorkMode "Develop", press OK



5) Remove all cables connected to the board (power or rotator connector) and connect a micro-USB cable ("smartphone charging cable") between the computer and the Satran controller.



6) In Espressif Download Tools, press the top button with three dots to browse for the Satran precompiled binary firmware file that you downloaded earlier



7) Enter the hex target address for the controller which is "0x0"

8) Mark the checkbox left to the binary filepath, to include it in the upload

9) Choose port in the "COM" dropdown. When the USB is connected, it should only have one option that you can pick.

Press the "START" button and wait until finished. The LED on the control board will start to flash until the upload is finished.

Unplug the USB-cable and close the program.