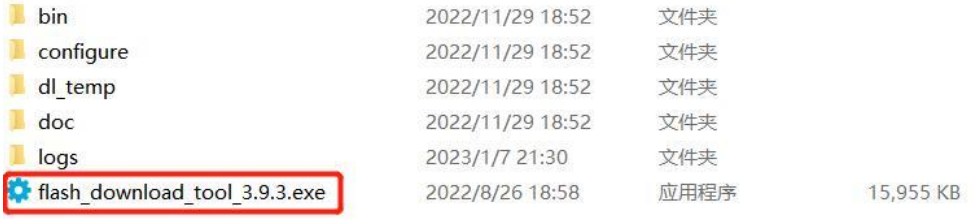
Firmware Flash Down Tool User Manual

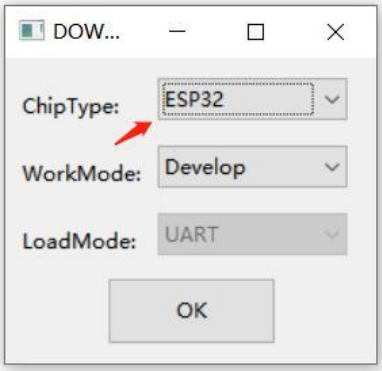
**To perform firmware upgrade, it is recommended to use a Windows computer. Additionally, ensure that the Type-C cable you use for flashing the firmware supports data transfer.

1. Download and extract file package <**flash_download_tool_3.9.3.zip**> (Attached on https://github.com/LuBiBi98/User-manual-for-V5A-radio)

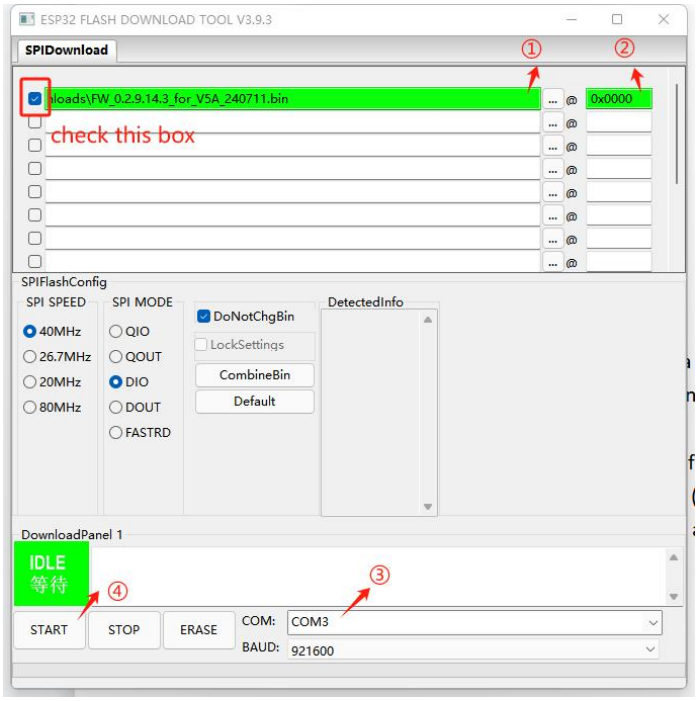
2. Run <flash_download_tool_3.9.3.exe>



3. Choose <ESP32> as ChipType and <Develop> as WorkMode.



4. Connect the computer to the radio using a Type-C data cable.
5. Choose correct firmware document and ensure that the option configurations match the settings shown in the image below.



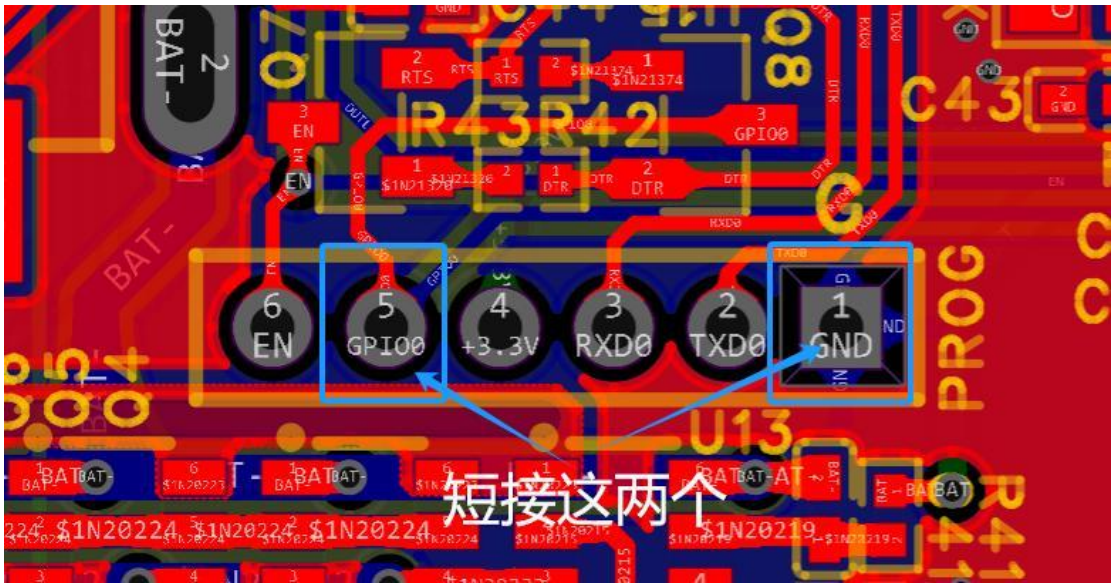
Step 1: Select the firmware file

Step 2: Enter the correct flashing address (0x0000)

Step 3: Check the box in front of the file. Choose the correct USB port. (If you are unsure which port is the correct flashing port, check the 'Device Manager' in Windows and find the COM port with 'CH340' in its name. This port is the flashing port for the radio.) If your computer only has COM1 and it is unusable, or if it is blank, you need to install the CH340 driver. (Attached on https://github.com/LuBiBi98/User-manual-for-V5A-radio)

Step 4: Click START to begin. (For hardware with PCB version 1.0.12 or higher, you need to continuously press down the encoder during the whole flashing process. If you release it, the flashing will be interrupted. If this happens, press and hold the encoder again and click START to resume.)

6. If your computer has an AMD CPU, it might not start due to issues with sending CTS signals (resulting in continuous waiting for power synchronization). In this case, try using a different computer or short the following two points on the MCU board (located at the bottom left of the screen).



7. Once everything is ready, the program will automatically start downloading. When it shows completion, you can unplug the Type-C cable and press and hold the encoder to power on the device.