Flash Firmware Flashing and Erasing
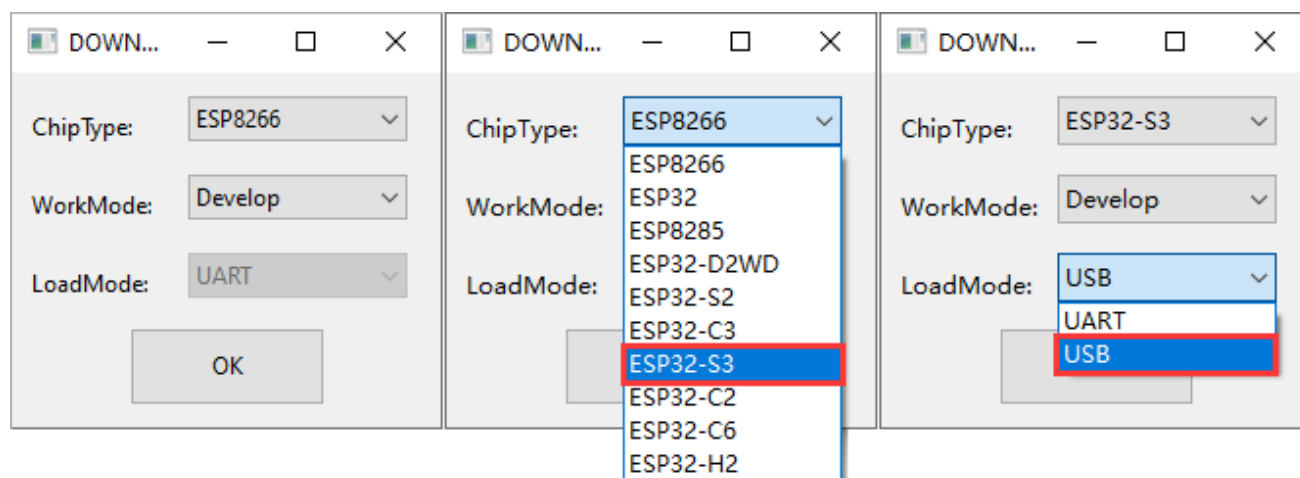
From Waveshare Wiki

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When the device has poor program operation or unknown errors, Flash Firmware Flashing and Erasing can be used as a solution. Flashing can update the tested firmware code for the device to return the device to normal; Erasing can remove the remnants of errors from the device and create conditions for new programs to be written. With the help of Flash Firmware Flashing and Erasing, ensure that the device can run stably.

Flash Firmware Flashing   Flash Firmware Erasing

Flash Firmware Flashing

The following is an example of flashing the **ESP32-S3-Touch-LCD-2.8 bin file**. If you need to flash other bin files, the operation steps are similar.

- Unzip the software resource package (ESP32 Firmware flashing tool_3.9.7 (https://files.waveshare.com/wiki/common/flash_download_tool_3.9.7_1.zip))
- Open the **flash_download_tool_3.9.7.exe** software, select according to the MCU and interface of the development board, for example: `ESP32-S3` and `USB` (USB is selected for most devices, depending on the hardware design of the product)
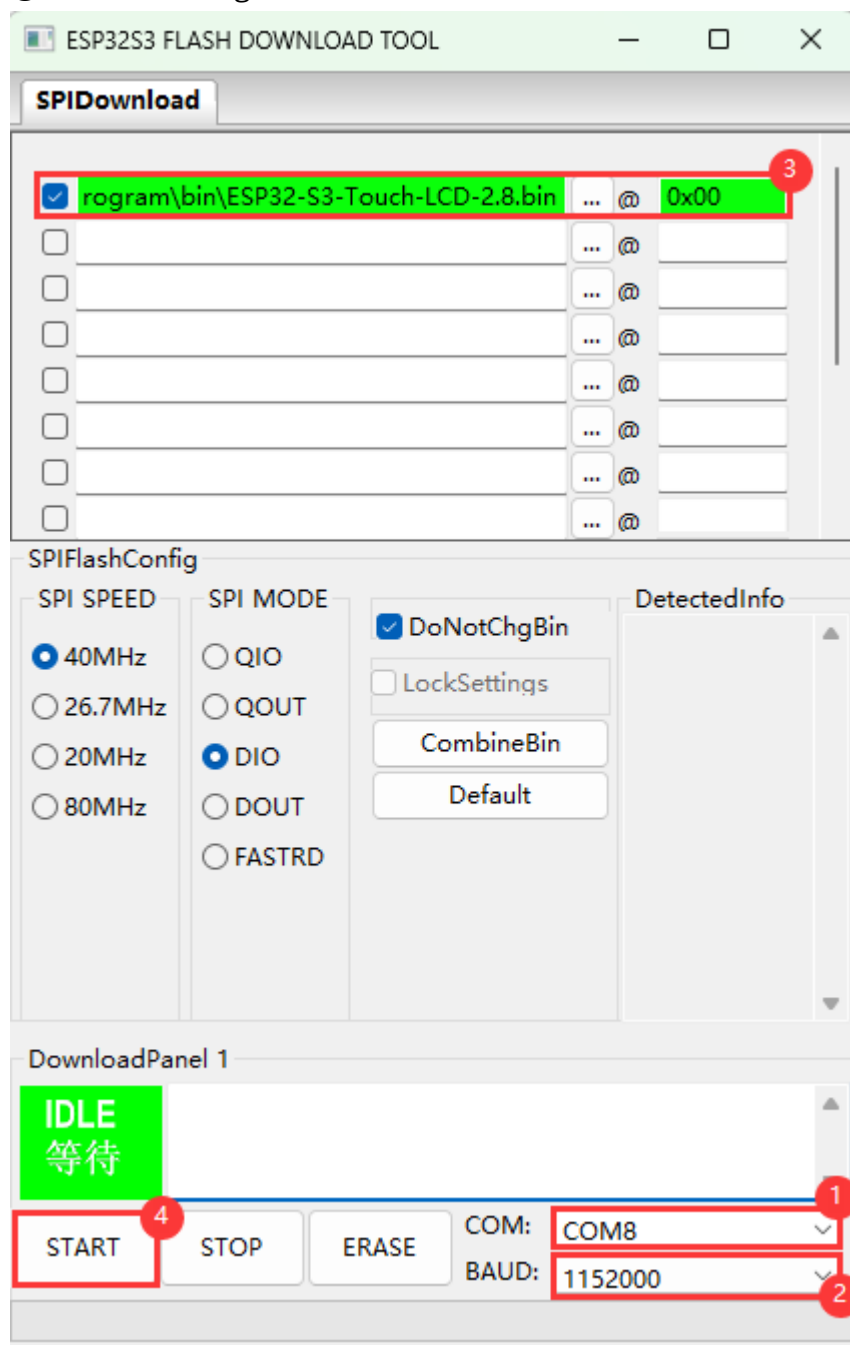

(/wiki/File:ESP32-S3_TO_Erase_Flash_1.png)

- Parameter setting

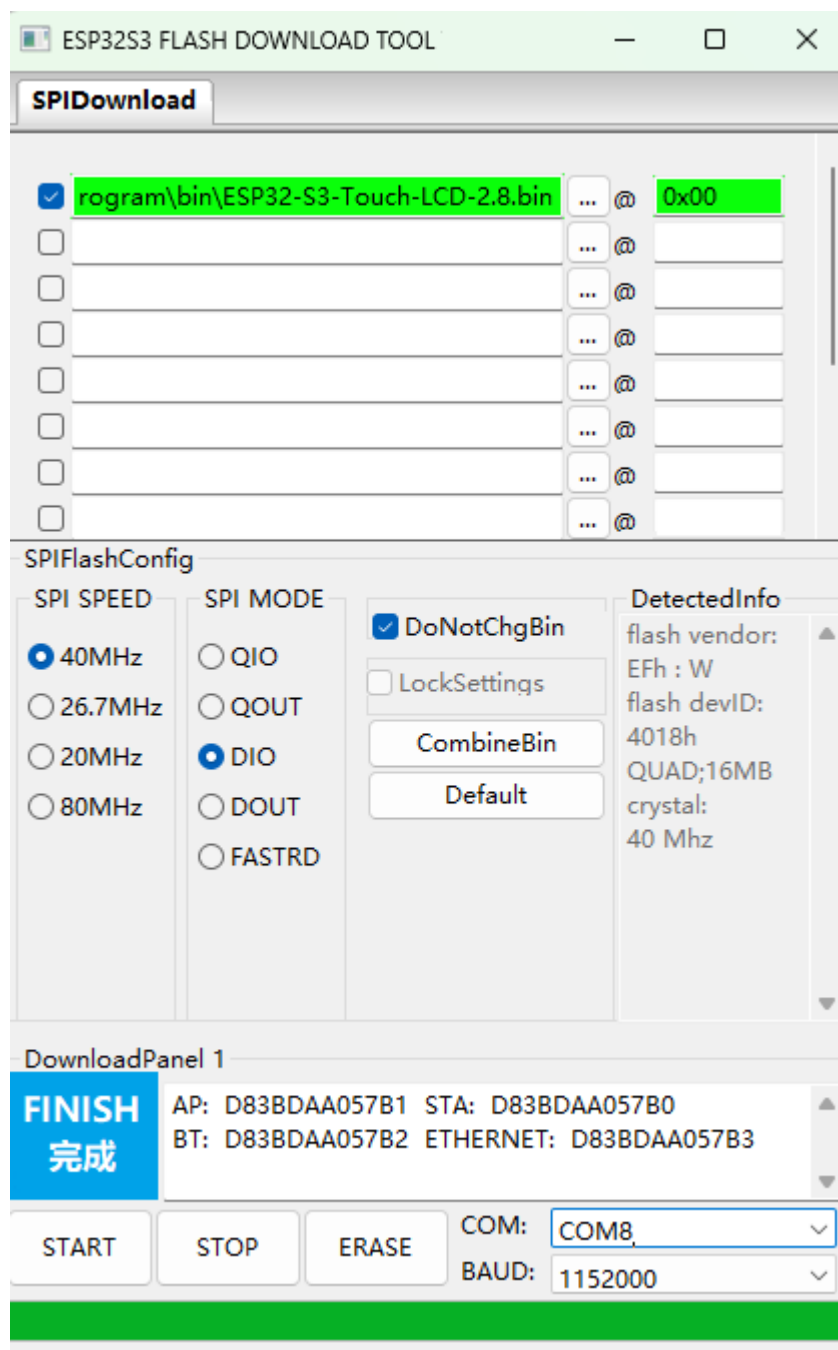①.Select the COM port that corresponds to the development board

②.Choose BAUD as the highest 1,152,000

③.Click **...** to choose the bin file provided by Waveshare, manually input the

download address **0x0**, and check the box on the far left

④.Start flashing

(/wiki/File:Flash-

upload-1.png)

- Flashing completed (the flashing process will take some time, please be patient)

(/wiki/File:Flash-

upload-2.png)

> If you are in the "waiting for power-up synchronization" situation, you need to press and hold "Boot" to power on again, and enter the download mode to solve the problem