

固件下载官方 Discord 频道

Firmware Download Official Discord Channel

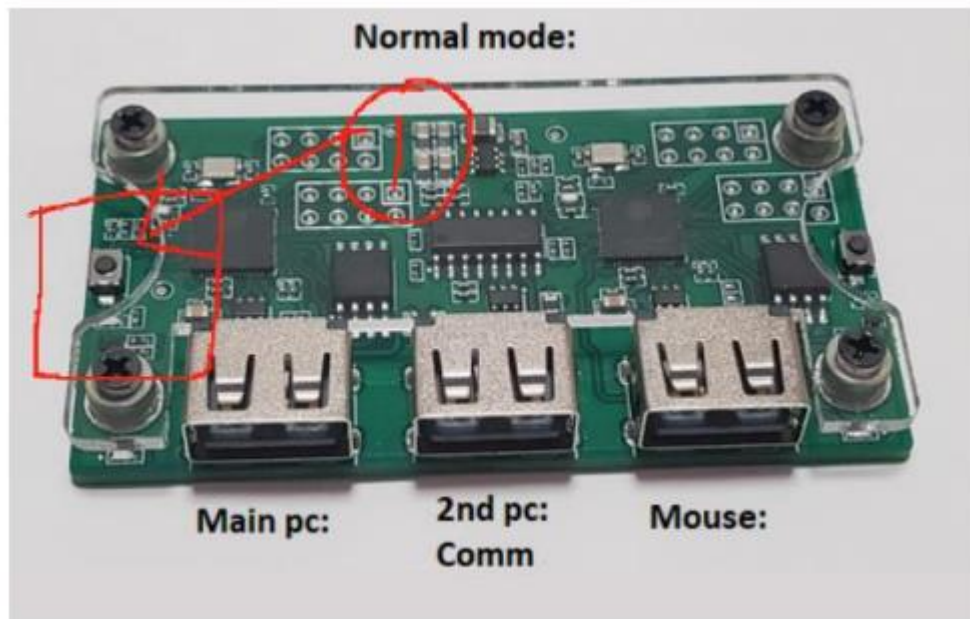
<https://discord.gg/RatGfpzg>

教程翻译: mata8915

Tutorial Translator: mata8915

准备工作: 将 USB 线先插入副机, 准备好你要刷入的固件 (左右固件)

Preparation: Plug the USB cable into a second computer and prepare the firmware you want to flash (left and right firmware).



刷新左侧固件

第一步: 如图所示, 先按住左侧按钮, 并将 USB 线插入左侧接口 (Main pc), 等待 LED 灯长亮松开按钮即可。(USB 口朝下区分左右)

Refresh the left firmware

Step 1: As shown in the picture, press and hold the left button and insert the USB cable into the left port (Main pc), wait for the LED to light up and release the button. (USB port is facing down to distinguish left and right).

第二步: 点击网页的连接设备按钮, 在弹窗中选择 ESP32-S3 设备点击连接

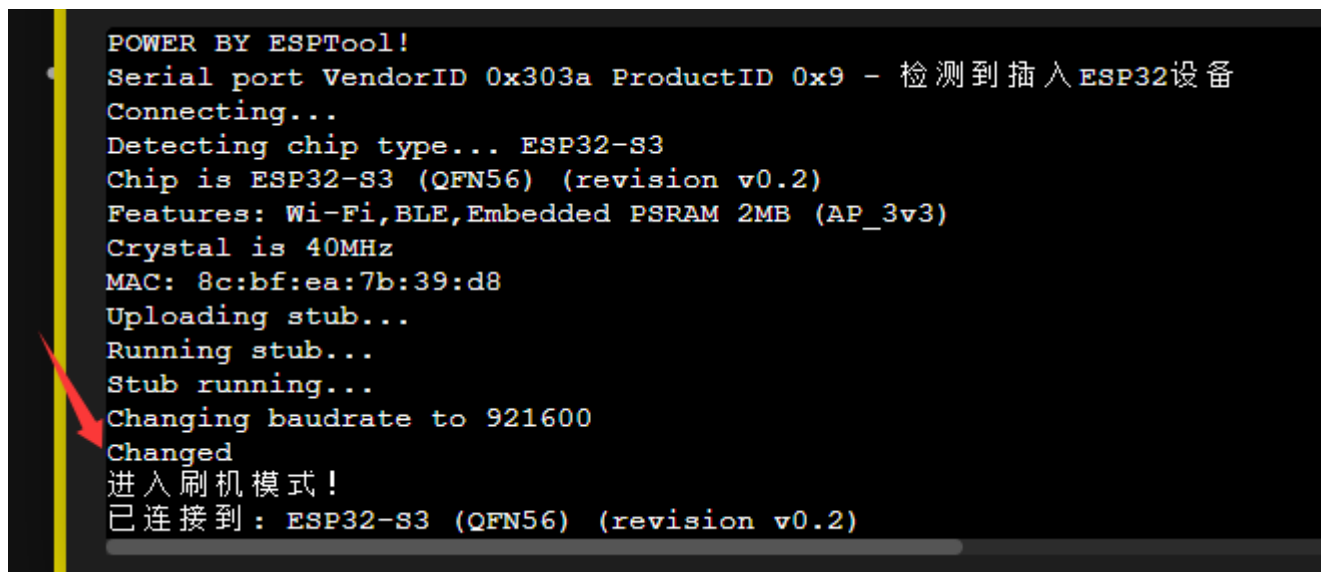
Step 2: Click the Connect Device button on the web page, select the ESP32-S3 device in the pop-up window and click Connect .

As shown:



第三步：等待命令行界面提示出现 changed

Step 3: Wait for the command line interface to prompt for changed



第四步：页面会出现两个选项：离线固件 在线固件

Step 4: Two options will appear on the page: Offline Firmware Online

Firmware

如果你使用在线固件请按住 Ctrl 点击 [在线固件使用方法](#)

If you are using online firmware hold down Ctrl and click on the [online firmware](#)



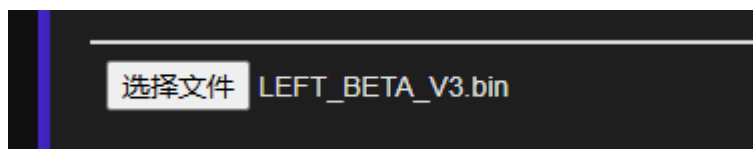
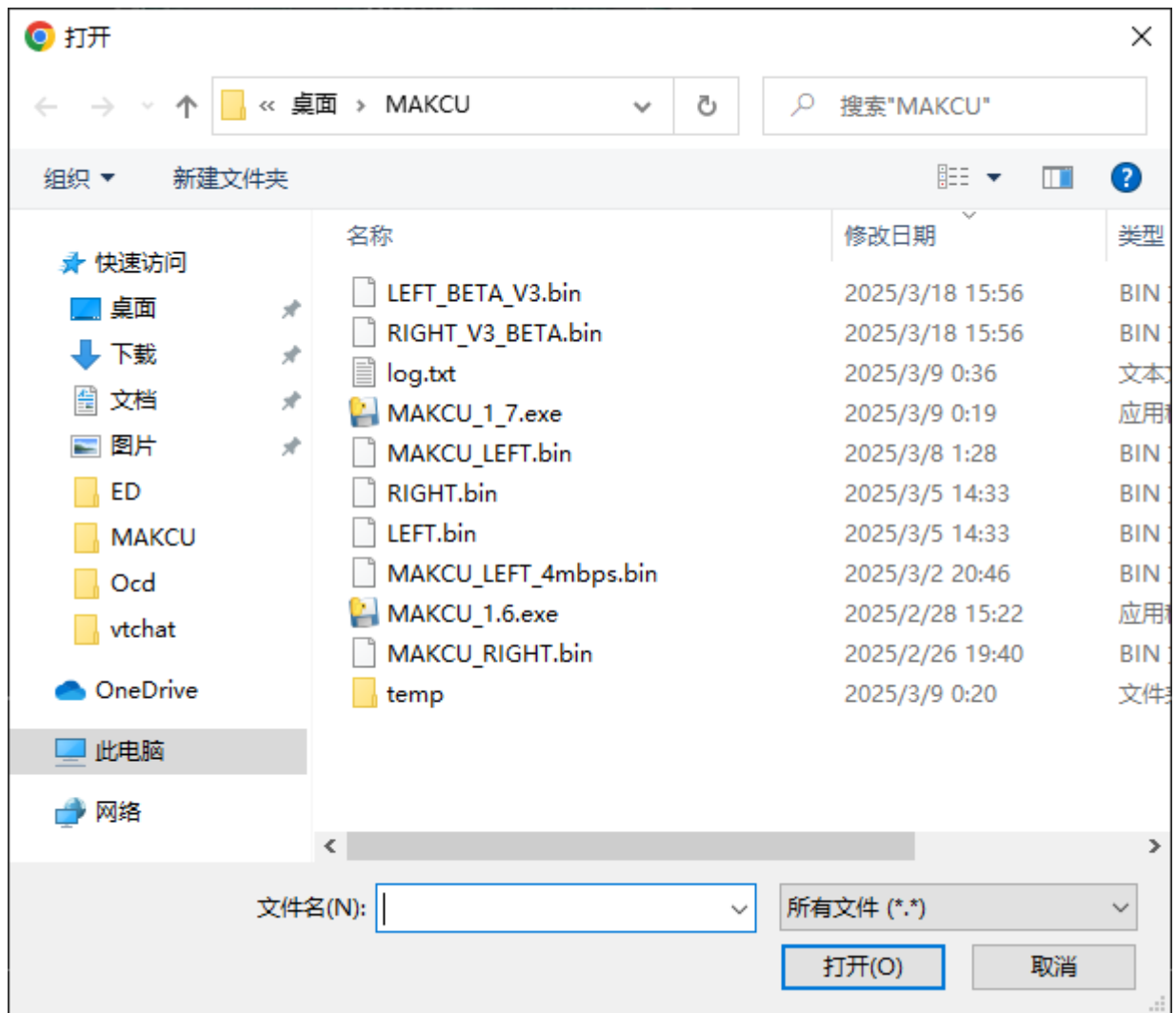
第五步：离线固件使用方法

Step 5: Offline Firmware Usage

点击选择文件按钮选择你要刷新的固件文件

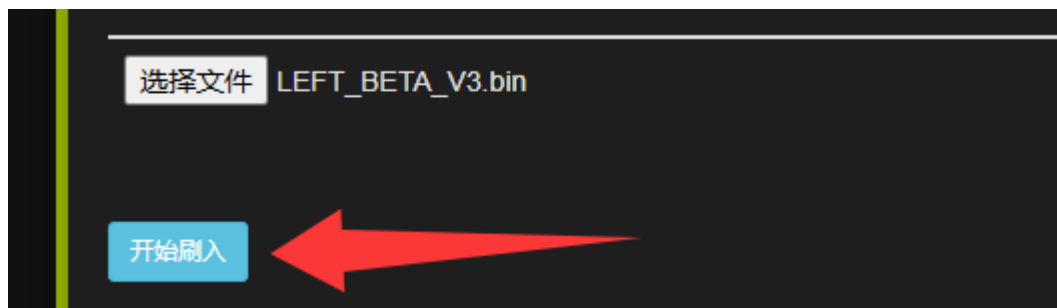
Click the Select File button to select the firmware file you want to flash





现在点击开始刷入按钮

Now click on the Start Brush-In button.



等待命令行运行结束出现成功提示

Wait for the command line to finish and a success message to appear.

```
Writing at 0x2a864... (41%)
Writing at 0x30c45... (50%)
Writing at 0x37286... (58%)
Writing at 0x3dbaa... (66%)
Writing at 0x46ee6... (75%)
Writing at 0x4e289... (83%)
Writing at 0x54281... (91%)
Writing at 0x5a787... (100%)
Wrote 390928 bytes (192595 compressed) at 0x0 in 3.491 seconds.
Hash of data verified.
哈希校验成功！刷入固件成功！
Leaving...
Hard resetting via RTS pin...
离线烧写完成！
```

这样我们左侧的固件就刷新完成了，刷新右侧的固件只需要刷新网页重复上述步骤（刷新右侧固件需要把 USB 插入右侧接口 [Mouse] 以及在选择文件时选择右侧固件）就可以完成所有的刷新固件工作

So we left side of the firmware on the refresh completed, refresh the right side of the firmware only need to refresh the web page to repeat the above steps (refresh the right side of the firmware you need to plug the USB into the right interface [Mouse] as well as in the selection of the file to choose the right side of the firmware) can be completed all the work of the refreshing firmware!

在线固件使用方法

How to use the online firmware



选择你要刷新的固件点击开始刷入

Select the firmware you want to flash and click Start Flashing.



等待命令行运行结束出现成功提示

Wait for the command line to finish and a success message to appear.

这样在线固件就刷新完成了

This completes the online firmware refresh.

```
烧写进度：32.2% Writing at 0x25673... (40%)
烧写进度：42.9% Writing at 0x2beea... (50%)
烧写进度：53.6% Writing at 0x326db... (60%)
烧写进度：64.4% Writing at 0x3c51f... (70%)
烧写进度：75.1% Writing at 0x430a9... (80%)
烧写进度：85.8% Writing at 0x48ec2... (90%)
烧写进度：96.6% Writing at 0x4f30b... (100%)
烧写进度：100.0% Wrote 333520 bytes (152700 compressed) at 0x0 in 3.037 seconds
Hash of data verified.
哈希校验成功！刷入固件成功！
Leaving...
Hard resetting via RTS pin...

在线固件烧写完成！
```

如何确认固件刷新成功

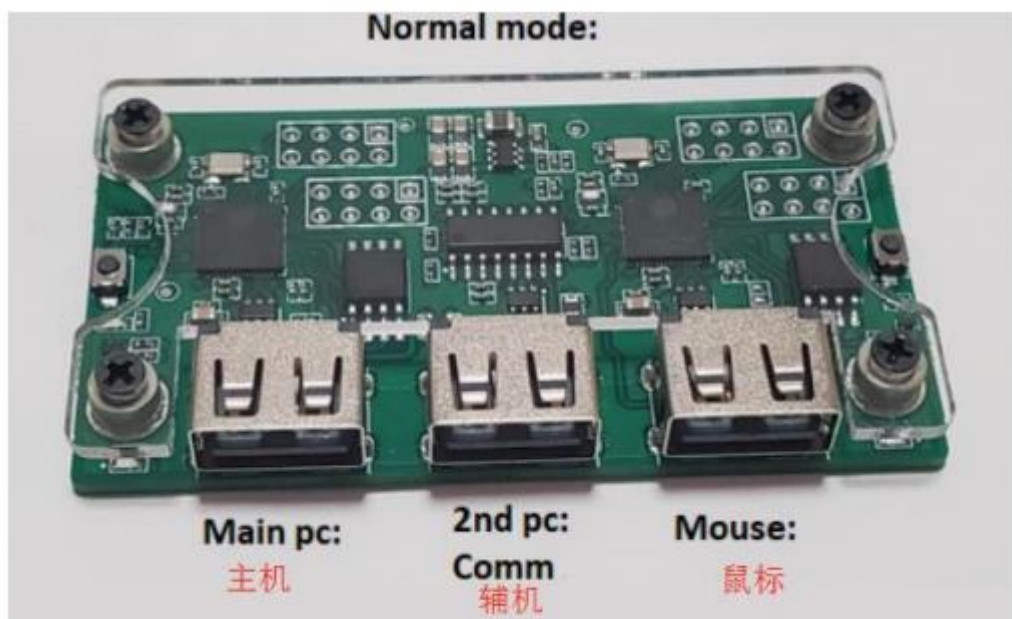
How to confirm successful firmware flashing

确保第二台电脑安装 CH343SER 驱动

Make sure the CH343SER driver is installed on the second computer


第一步: 将主机的 USB 线插入 MAKCU 的左侧口, 第二台电脑的 USB 线插入中间口, 鼠标插入右侧口

Step 1: Plug the USB cable of the host computer into the left port of the MAKCU, the USB cable of the second computer into the center port, and the mouse into the right port.



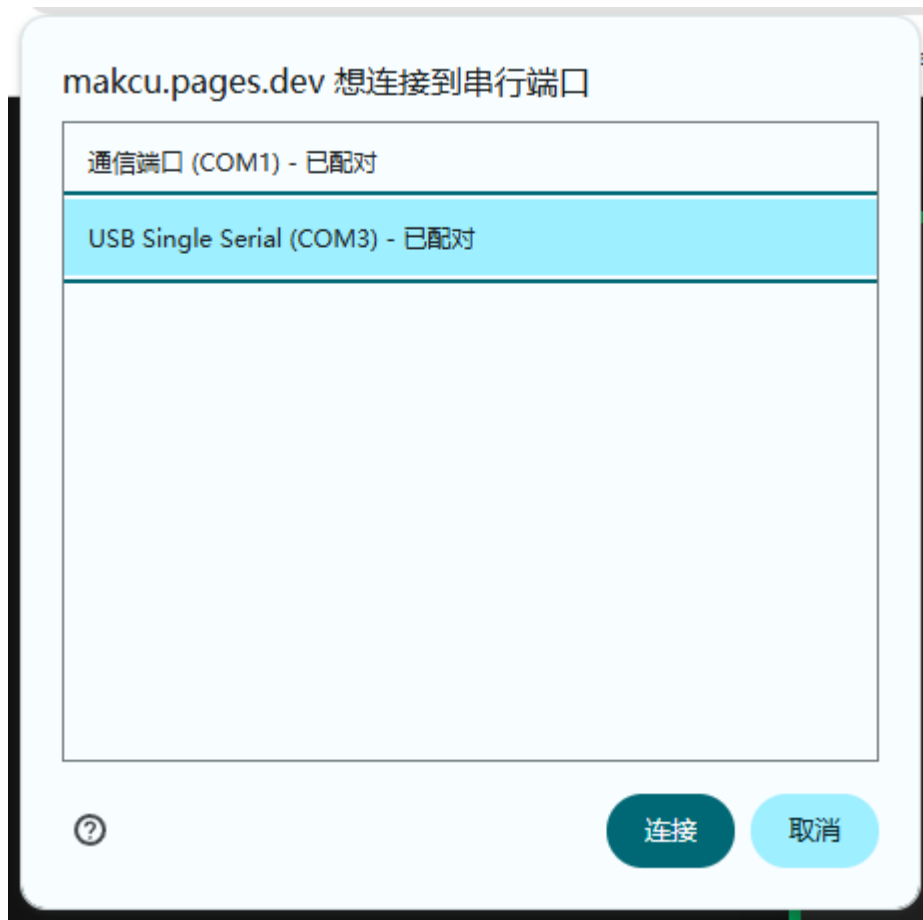
第二步: 确保第二台电脑存在 CH343SER 驱动。在设备管理器的端口栏目里出现下图的设备即是存在该驱动, 否则需要安装该驱动

Step 2: Make sure the CH343SER driver exists on the second computer. In the port column of the device manager, the device shown below is the existence of the driver, otherwise you need to install the driver.

 USB-Enhanced-SERIAL CH343 (COM6)

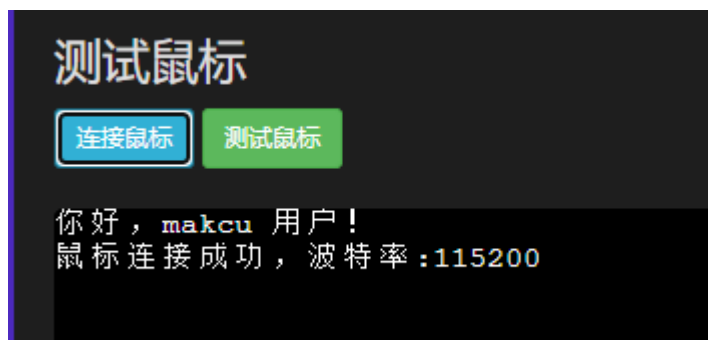
第三步: 点击链接鼠标, 在弹窗中链接 USB Single Serial 设备

Step 3: Click the link mouse to connect the USB Single Serial device in the pop-up window.



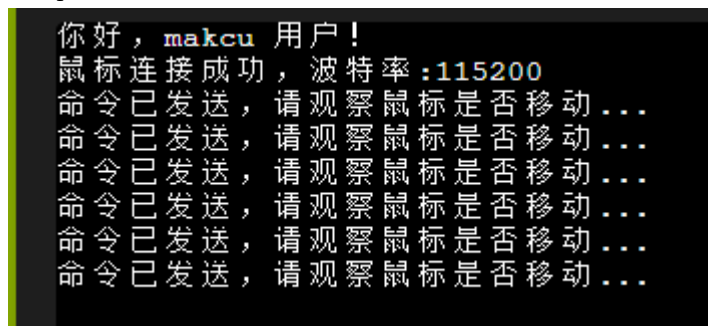
连接成功会提示并显示波特率

Successful connection will prompt and display the baud rate.



第五步：点击测试鼠标观察 Main pc 鼠标是否移动

Step 5: Click on the test mouse to see if the Main pc mouse moves.



如果 Main pc 鼠标移动，则说明第二台电脑可以调用到该设备，测试完成后别忘了关闭网页，否则端口会被占用

If Main pc mouse moves, it means that the second computer can call to the device, don't forget to close the web page after the test is finished, otherwise the port will be occupied.