

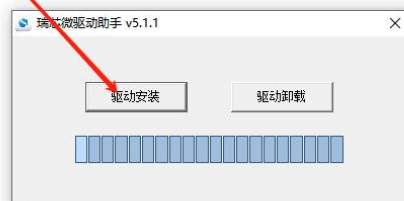
Firmware Burning Guide for M02

Preparation:

- A Windows-based computer
- A USB-C data cable
- An Ethernet cable
- A screwdriver (for disassembling the side panel)

1. Install the driver package included in the tools: **DriverAssitant_v5.1.1/DriverInstall.exe**

ADBDriver	2023/7/12 16:40	文件夹	
bin	2023/7/12 16:40	文件夹	
Driver	2023/7/12 16:40	文件夹	
Log	2025/2/28 10:26	文件夹	
config.ini	2014/6/3 15:38	配置设置	1 KB
DriverInstall.exe	2020/11/10 14:15	应用程序	490 KB
Readme.txt	2018/1/31 17:44	文本文档	1 KB



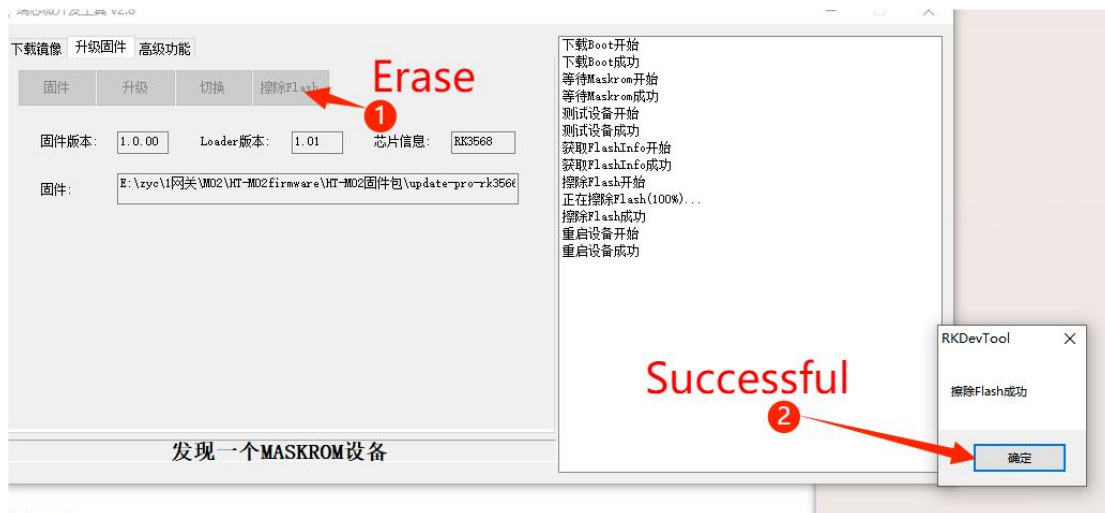
2. Open the machine's side panel, using a USB-C connection between the computer and device, and connect the power source.



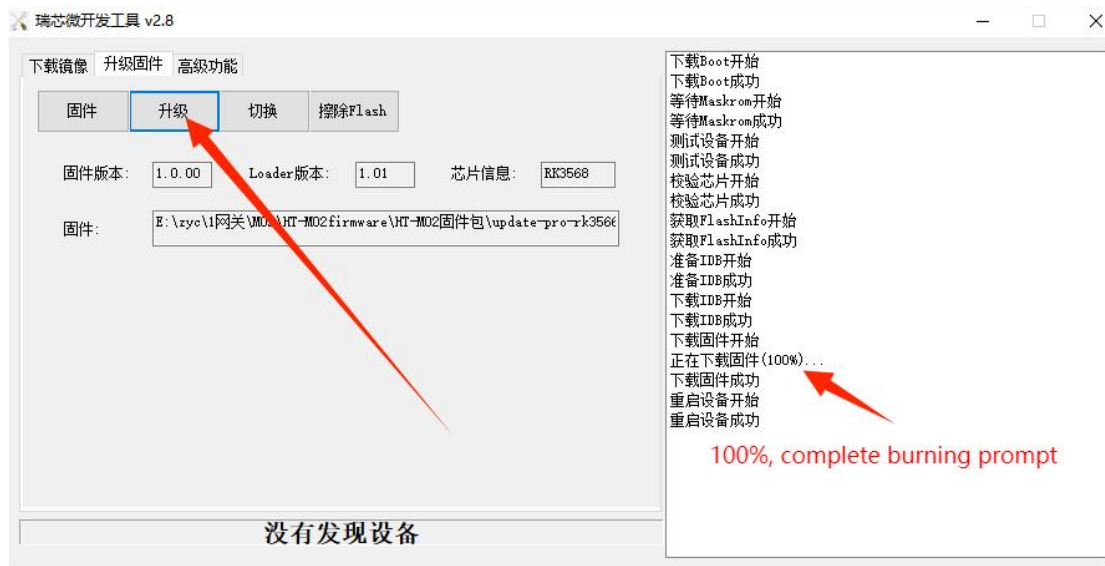
3. Open the **RKDevTool_Release_v2.8** folder, containing **RKDevTool.exe**.
4. Press the **REC** button on the inside of the cover, **don't release**, then powering on, until RKDevTool will display "发现一个 **LOADER** 设备" (**Loader device detected**), release the **REC** button。
5. Click "升级固件(**Upgrade Firmware**)," then select the firmware file from the package: **update-pro-rk3566-debian-20220515-230650.img**,



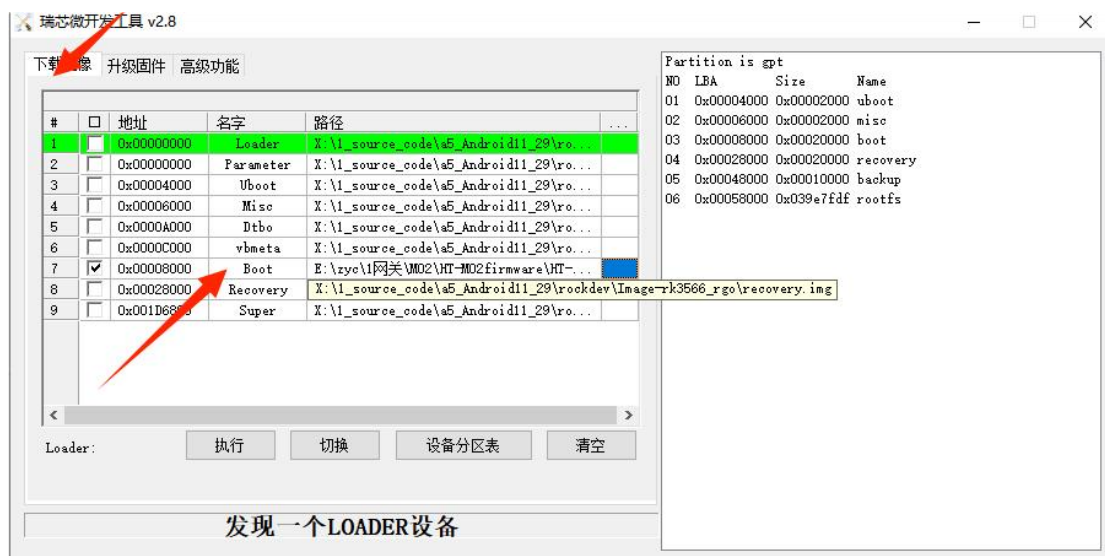
6. After loading is complete, click "**擦除 Flash(Erase Flash)**" , Once a confirmation dialog appears, it means the erase is successful.



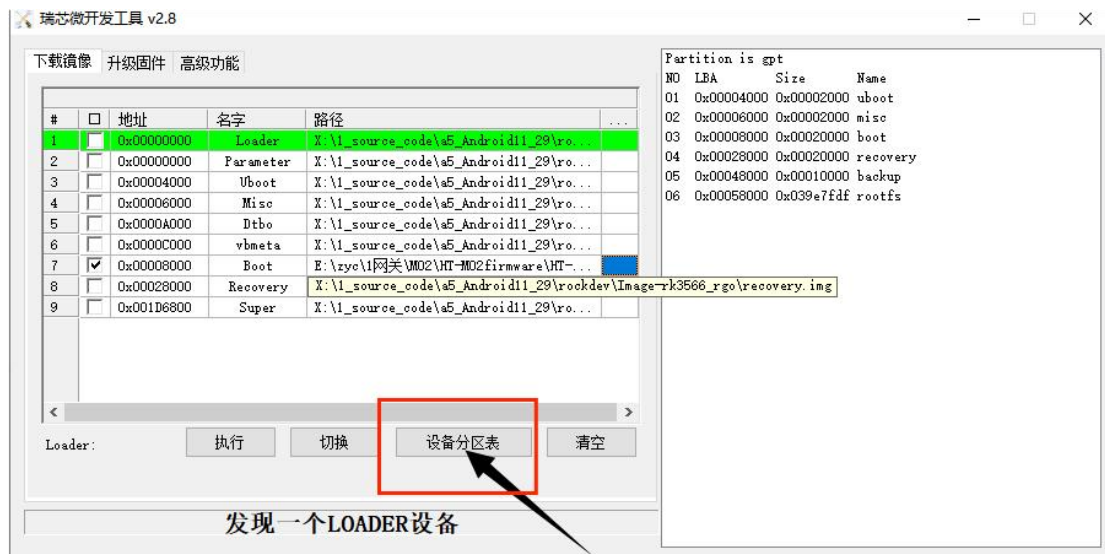
7. Click "升级 (**Upgrade**) " and wait for the firmware burn process to complete. The firmware burn will show a "**100%**" prompt upon success.



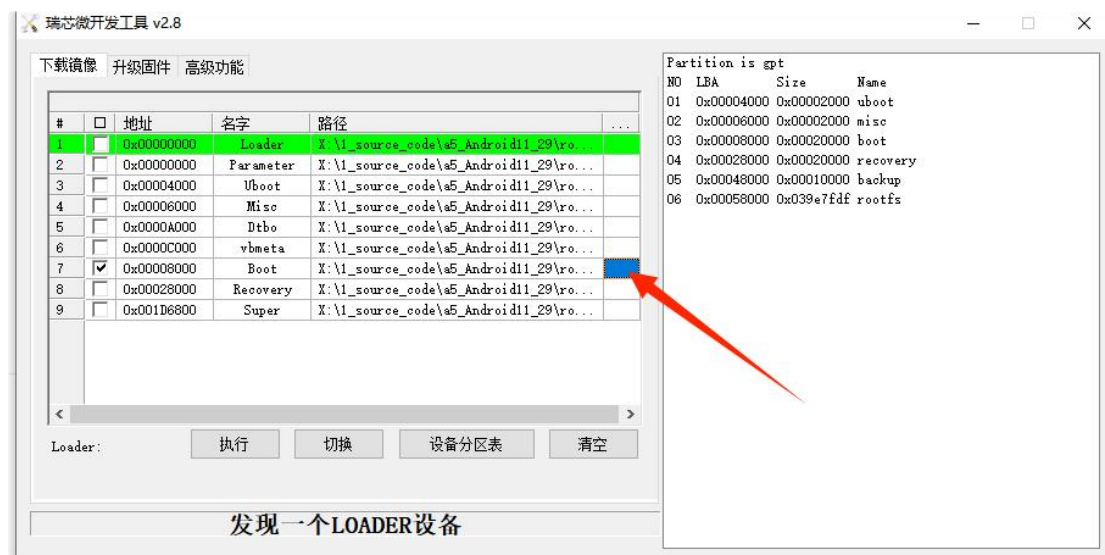
8. Device will reboot. Allow it to cool for 2-3 minutes before disconnecting the power. Press the **REC** button, don't release, then powering on, until RKDevTool will display "发现一个 **LOADER** 设备 (**Loader device detected**)", release the **REC** button.
9. Switch to the download image section and tick only item 7 "**BOOT**":



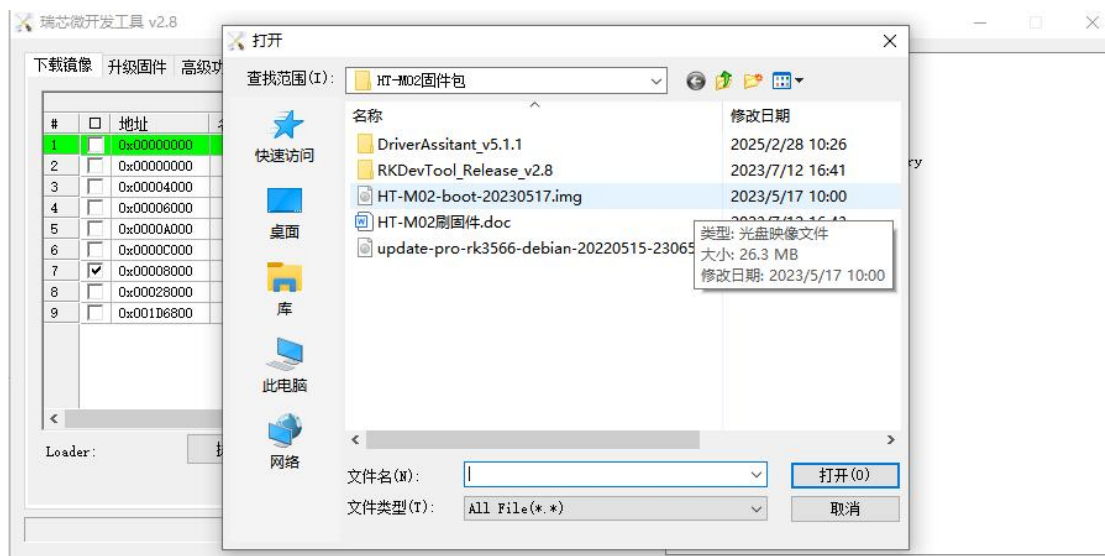
10. Click on "设备分区表(Device Partition Table)" until the address changes to 0x00008000, as shown in the following dialog. **At this point, many prompt boxes may pop up. Just click them, and don't worry about them.**



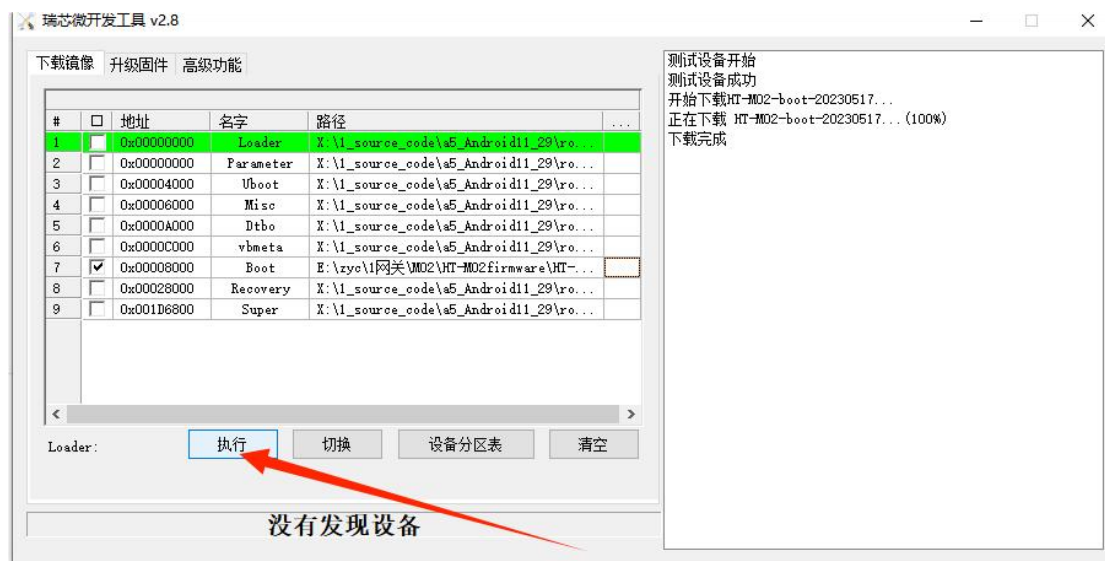
11. Click on the table cell adjacent to the right edge of "Boot," as illustrated.



12. Select the file from the package: HT-M02-boot-20230517.img



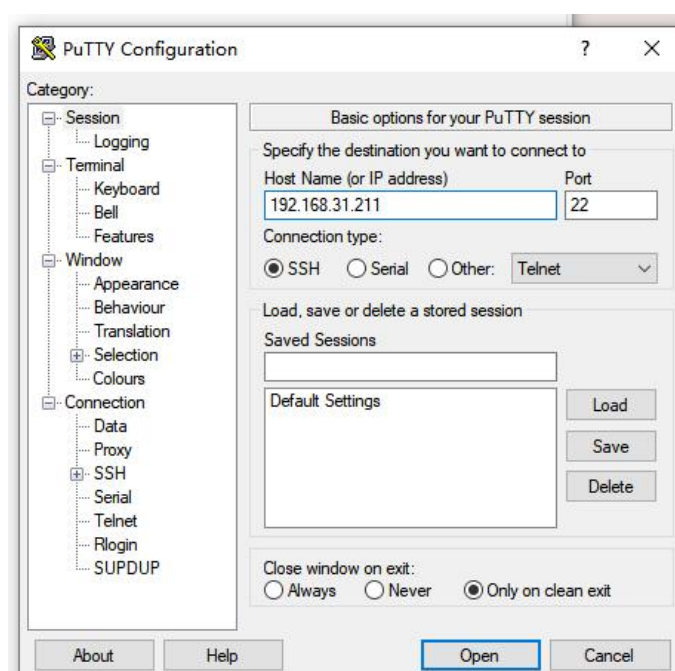
13. Click “执行 (Excute) ”， it will show a "100%" prompt upon success in the right side box.



14. After the machine starts up (1~2 minutes), connect it to a router via Ethernet cable. Check its IP address in the router; the Hostname may be unusual.



15. Access the device via SSH at port 22 (default). The login credentials are "root", pass word "root"



16. Execute initialization commands based on your hardware version:

(硬件版本 **ETH**)

```
rm -rf init_M02* && wget http://minerback.heltec.cn/download/init_M02_extraServer.sh &&  
chmod +x init_M02_extraServer.sh && ./init_M02_extraServer.sh
```

(硬件版本 **ETH+4G**)

```
rm -rf init_M02* && wget http://minerback.heltec.cn/download/init_M02_extraServer.sh &&  
chmod +x init_M02_extraServer.sh && ./init_M02_extraServer.sh 4G
```

(硬件版本 **ETH+wifi**)

```
rm -rf init_M02* && wget http://minerback.heltec.cn/download/init_M02_extraServer.sh &&  
chmod +x init_M02_extraServer.sh && ./init_M02_extraServer.sh WIFI
```

(硬件版本 **ETH+wifi+4G**)

```
rm -rf init_M02* && wget http://minerback.heltec.cn/download/init_M02_extraServer.sh &&  
chmod +x init_M02_extraServer.sh && ./init_M02_extraServer.sh WIFI 4G
```

17. After completion, the device will reboot with new configurations:

Default Network Configuration:

WAN Port (ETH): ETH-WAN

Default Hotspot Information:

SSID: HT-M02-AP

Password: heltec.org

SSH Access Details:

Username: root

Password: heltec.org

18. Based on the above information, reconnect to SSH. Note that the SSH credentials have changed: username is **root** and password is **heltec.org**.

Update the configuration page(Necessary Options):

```
rm -rf update_M02* && wget http://minerback.heltec.cn/download/update_M02.sh && chmod  
+x update_M02.sh && ./update_M02.sh
```

Update the Basic station feature(options):

```
rm -rf update_* && wget http://minerback.heltec.cn/download/update_basicstation.sh &&  
chmod +x update_basicstation.sh && ./update_basicstation.sh
```