User Manual

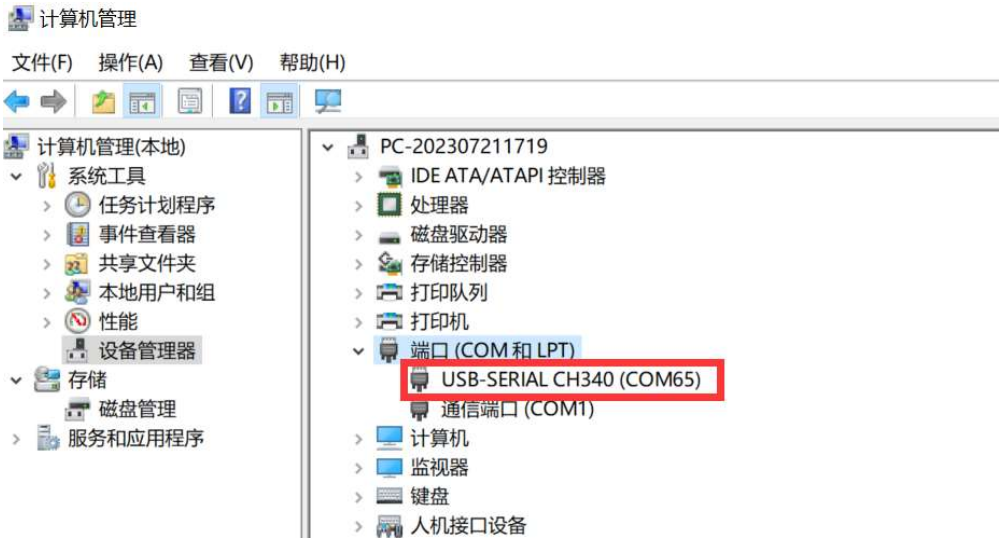
1. CH340 Driver Installation

If the device is recognized as an "Unknown Device" when connected to the computer, install the CH340 driver.

Download the driver from the official website:
https://www.wch.cn/downloads/CH341SER_EXE.html

Follow the installation wizard to complete the setup.

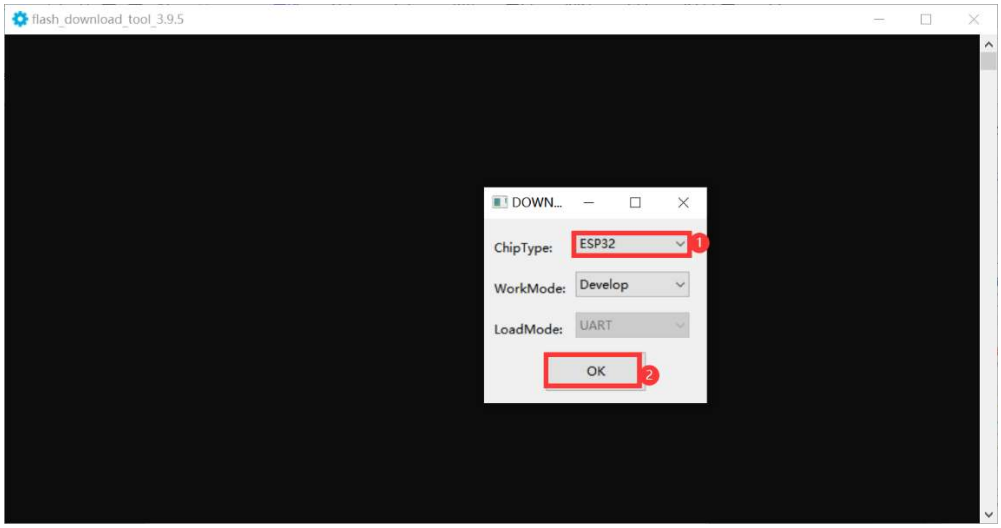
The expected device recognition status after installation is shown in the diagram.



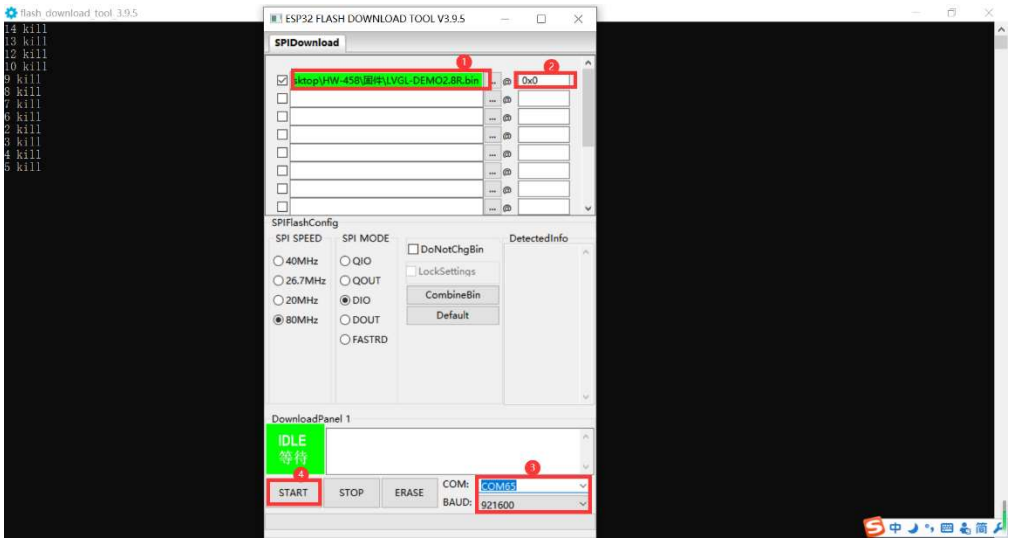
2. Program Flashing

Download the driver file from: https://github.com/iUniker/HW-458

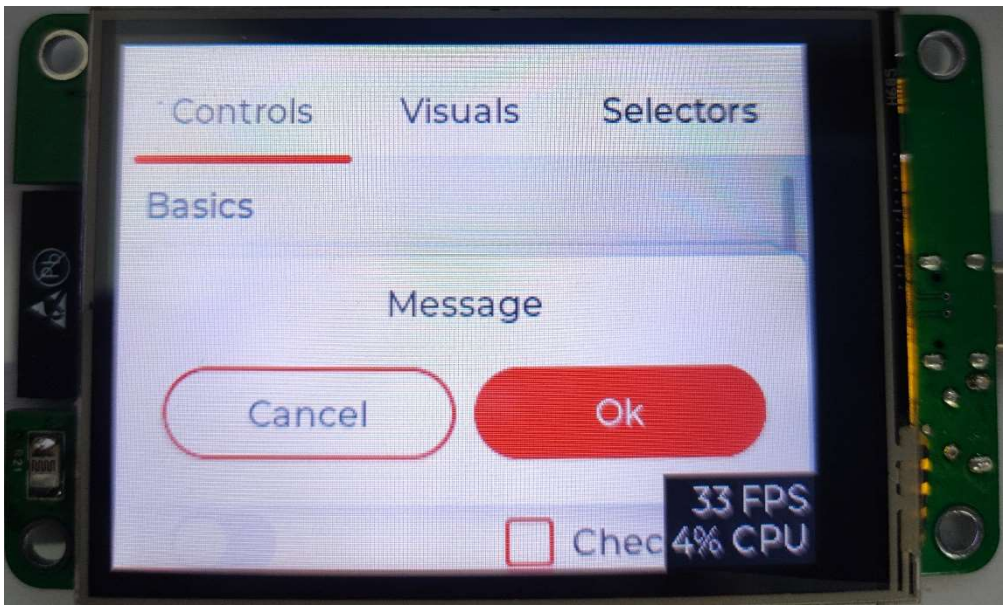
2.1.1 DownLoad and Launch flash_download_tool 3.9.5, select ChipType as ESP32, and click OK.



2.1.2 Load the LVGL-DEMO2.8R.bin firmware for HW-458. Configure the parameters in the specified order (as shown in the diagram), then click START to begin flashing.



2.1.3 After flashing is complete, press the RST button or reconnect the power. The screen will display the interface shown in the diagram and become touch-responsive.



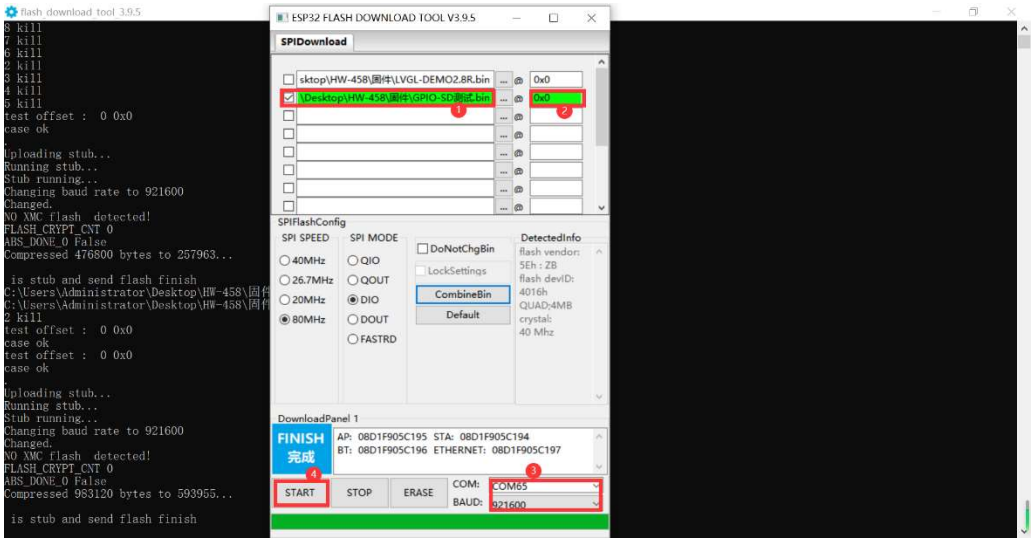
2.2.1 Flash the GPIO-SDtest.bin firmware. After flashing and resetting the module:

The RGB LED on the back will light up.

If a speaker and TF card are connected, the system will automatically play UDISK_ADV.MP3.

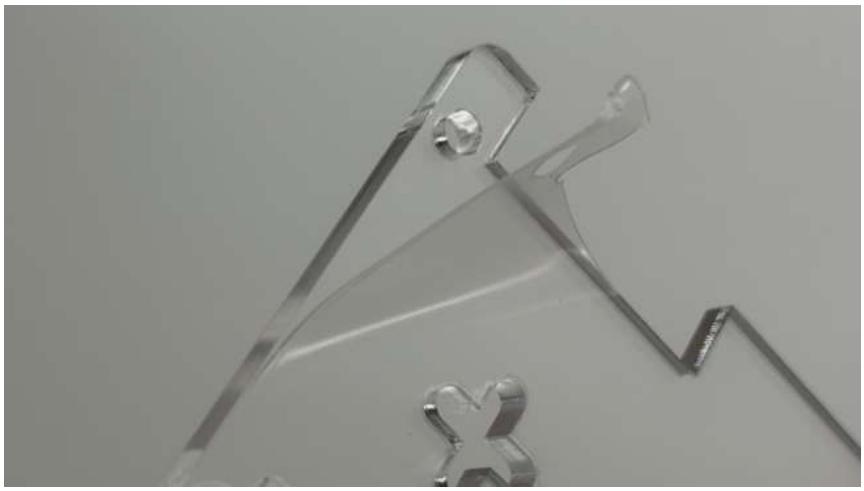
Note: To use this firmware, rename your MP3 file to UDISK_ADV (file extension must be .MP3, as shown in the diagram).

Diagrams referenced in the steps are provided separately for visual guidance.

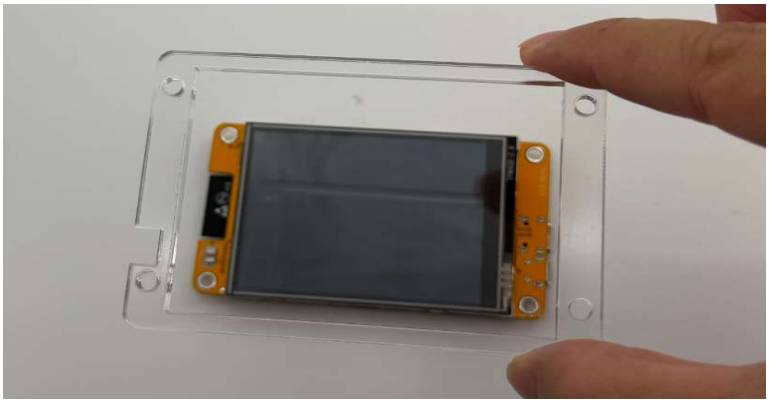


How to install the Case?

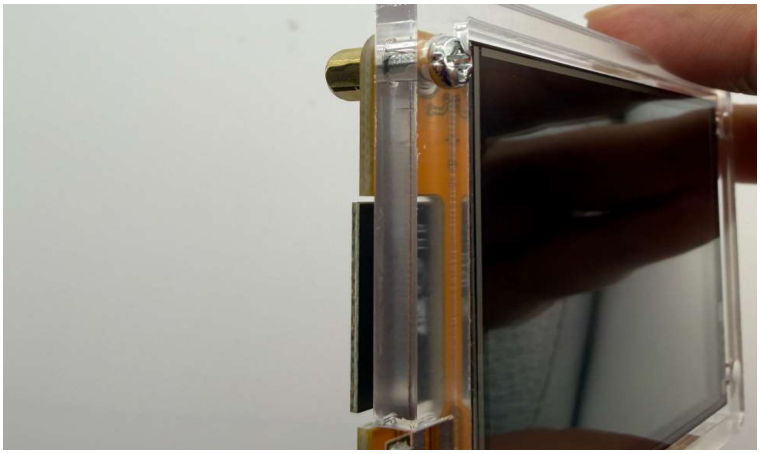
1. Peel off the protective film on both sides of the two acrylic casings.



2. Place the **acrylic shell** onto the **screen** as shown in the **picture**, and **align the screw holes**.



3. Use the **M3x7 screws**(the **longer** ones) and the **M3x5 brass standoffs** to secure the **acrylic shell** to the **screen** at the **four corners**, as shown in the **picture**.



4. Place the **acrylic backplate** as shown in the **picture**, then secure the **four corners** with **M3x6 screws**(the **shorter** ones) to **complete the installation**.

Where to get the NMMiner firmware?

To get the firmware,

- you can get it from NMTech's github. (https://github.com/NMminer1024)
- you can flash the NMMiner firmware to your device from the NMMiner web-flash-tool.
- Web Flash Tool: https://flash.nmminer.com

If you accidentally lose your license or flashed other applications, the web flash tool will help you find and recover it (do not need any fees). So don't worry to erase the board for other applications, you can reflash the NMMiner, and there's no need any activation. If you don't have a license yet, you can directly jump to the activation page from the web flash tool. The nm-bot-chain, nm-usb-chain, Heltec Vision Master T190 (NMMiner) , CYD-NM, NM-TV-154, are NMMiner Inside devices, no longer need to activate.

How to config the NMMiner easily?

With the NMMiner web-flash-tool, you can config the NMMiner more easily.

Update the firmware

Step 1: When you first get the device, you should choose the device type you have, choose it and Connect and Program.

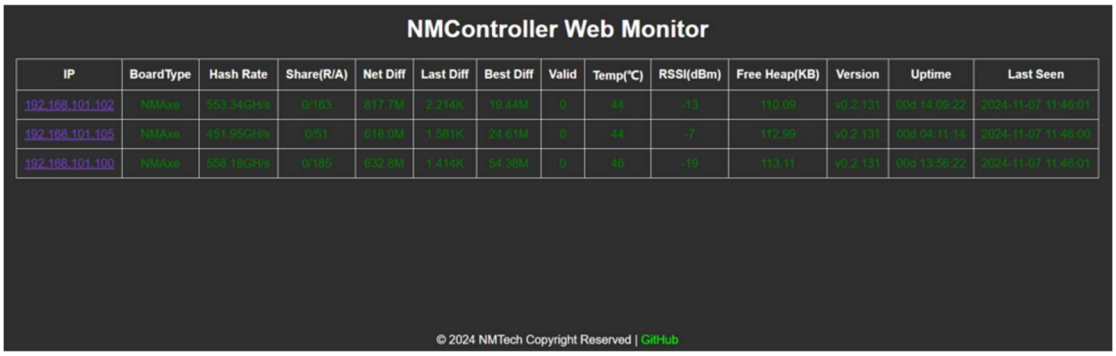
Step 2: When the NMMiner works well, you can see the WiFi and BTC address configure input box Input your WiFi SSID and password, BTC address, config the device. If everything is ok, you can see the Hashrate report from the Console.

Console Only

If you don't need to update the firmware, just check the **Console only**, the NMMiner will run, then you can config it as **【Update the firmware】 Step 2.**

NMController Cluster Management Tools

- NMController_client, source code, we put the *_x64.msi and *_x86.msi in tool folder already, just install, only for Windows
- NMController_web, source code, it's a Python implement, for Windows and Mac.



How to manage my NMMiners?

if you have many NMMiner devices, you can use the Controller software provided by NMTech tomanage all devices within the LAN(local area network), currently support all NMMiners and NMAxe.

You can get this tool from

github: https://github.com/NMminer1024/NMMiner/tree/main/tool.

- nmcontroller client, only support the windows system, and maybe you need download the .Netframework.
- nmcontroller web, https://github.com/NMminer1024/NMController web, you just need a pythonenvironment to run it,python nmcontroller.py.

With the NMController, you can quickly enter the device management page.

What Cryptocurrency? How is the Income? And Difficulty?

Bitcoin Lottery

draws every 10 minutes, 144 times every day, 52560 every year.

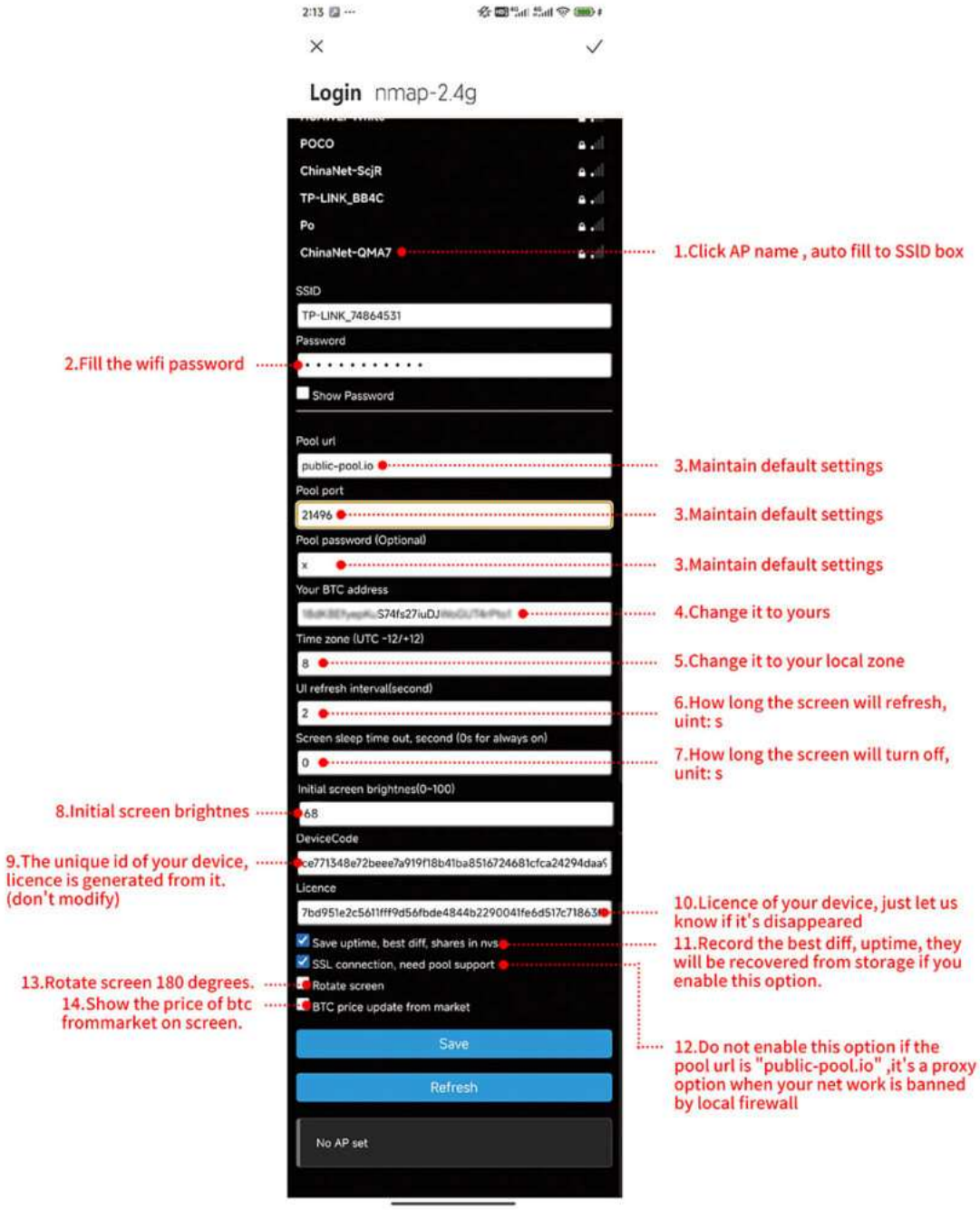
- The lottery value is ~3.125 BTC, approximately equal to $220,000.
- Degree of difficulty: ★★★★★★★★★★

You can see it on: https://mempool.space/mining/pool/solock

The data shows that there is a lucky winner about every month.

Local Management System

Built-in Axe OS allows users to view system status and set device parameters in the dashboard



Customer Service Email:

iuniker@yeah.net

If you have any questions, please feel free to contact us.