

ThinkNode-M9 Meshcore

Micro SD Card Formatting, Virus Removal, and SD Card Content Reloading Instructions

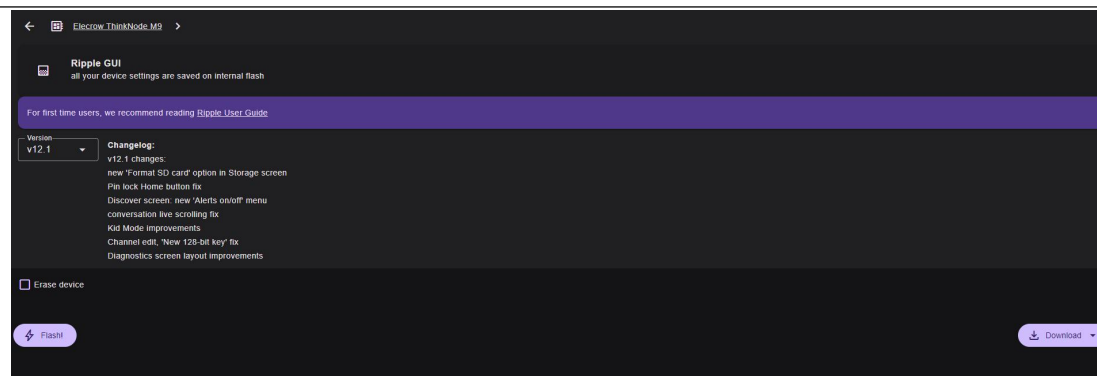
一、Purpose of This Document

To format the contents of the micro SD card, remove viruses from the micro SD card, and download new map files

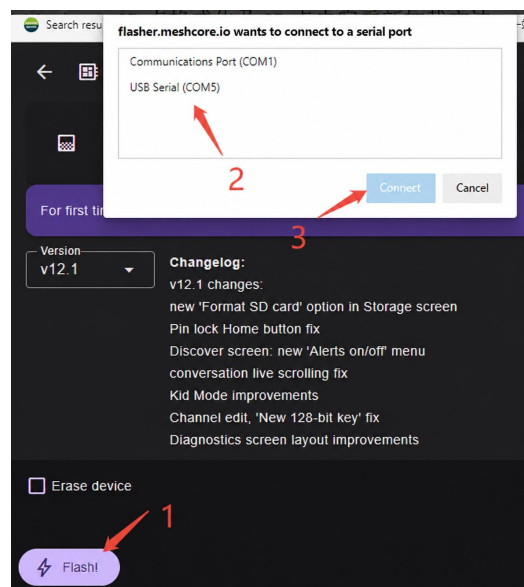
二、Download the Latest Firmware

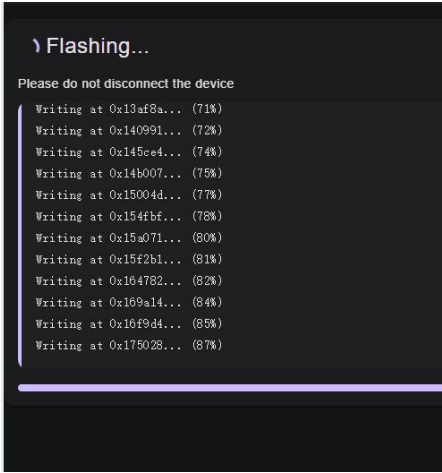
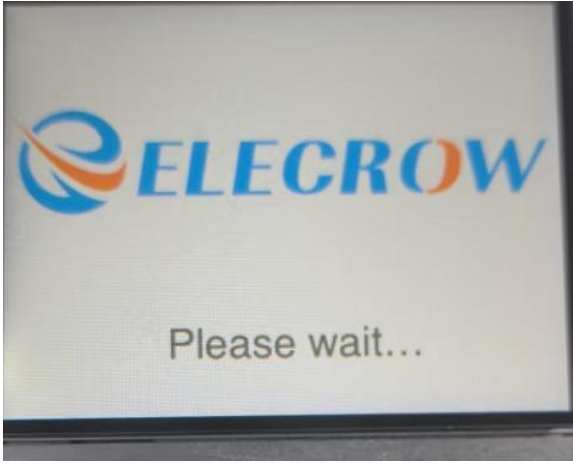
1. Go to the Meshcore firmware download page:

<https://flasher.meshcore.io/elecrow-thinknode-m9/ripple-gui/v12.1>



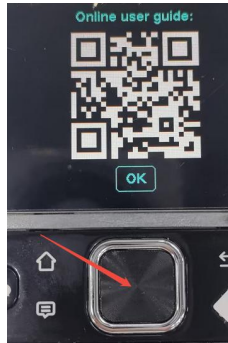
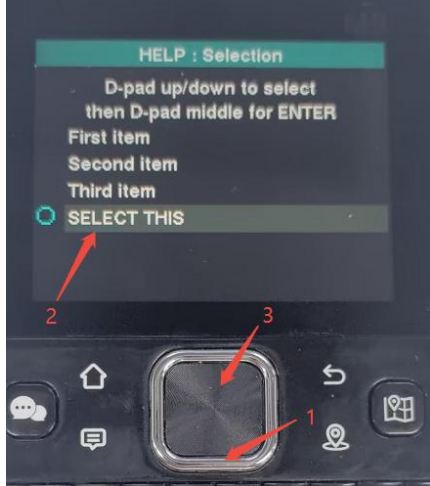
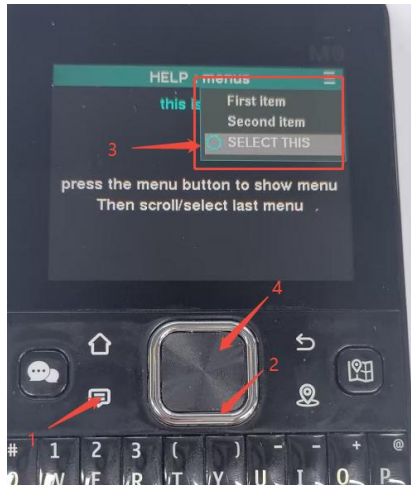
2. Click flash. When the communication port dialog appears, select the port. For this device, select com5, and then click Connect. Select the port number based on the actual device. Note that you may need to click flash several times before the communication port selection appears.



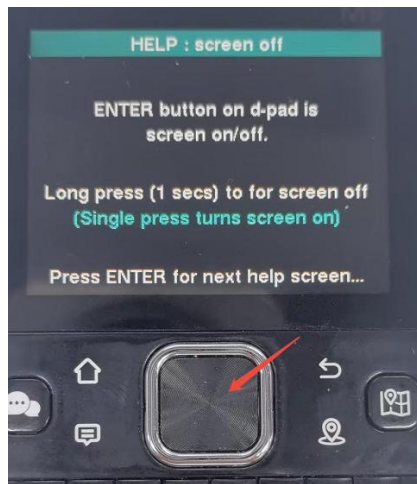
3. Enter the firmware flashing and upgrade screen, and wait for the flashing process to complete	4. The device restarts automatically after flashing is complete
	

III. Initial Setup and Formatting the Contents of the micro SD Card

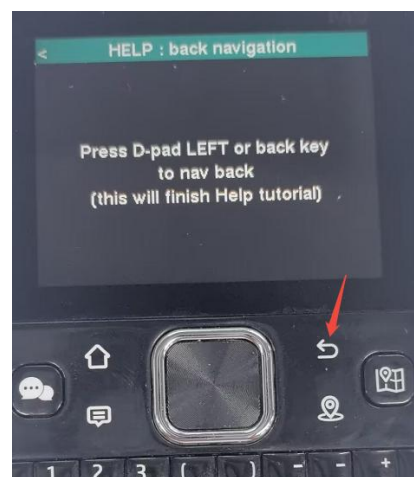
Initial Setup and Steps for Viewing the Map

1. Power on the device	2. Press the center OK button to confirm
	
3. Press the Down button, select select this, and then press the Confirm button	4. Click the menu, press the Down button, select select this, and finally press the center button
	

5. After entering the screen shown below, press the center button



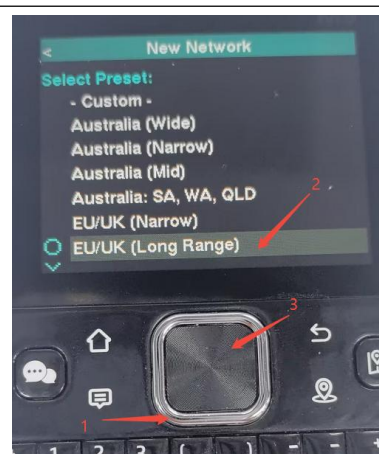
6. After entering the screen shown below, press the Back button



7. Select Meshcore and press the center button



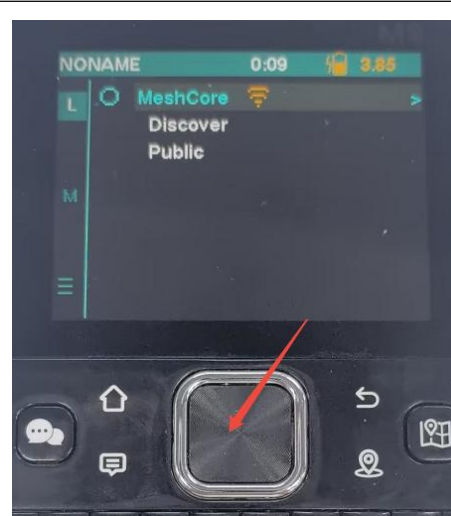
8. Select any option, such as EU/UK(long range)



9. Enter a name and press the center button



10. Go to the main screen



11. Click the location indicated by the arrow to open the map

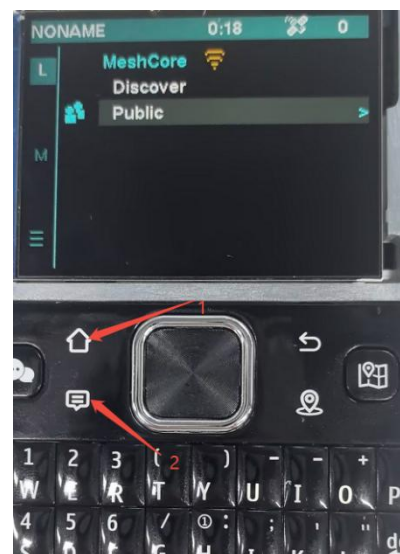


12. Use the Left, Right, Up, and Down buttons to move the map, and press the center button to zoom in. You can then view a more detailed map

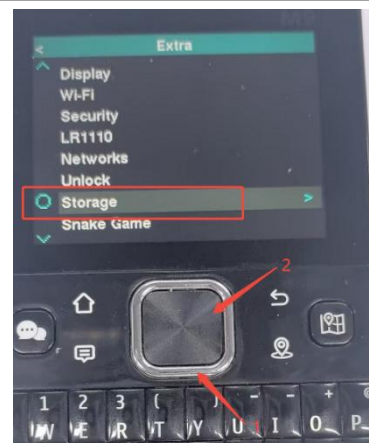


Format the Contents of the micro SD Card

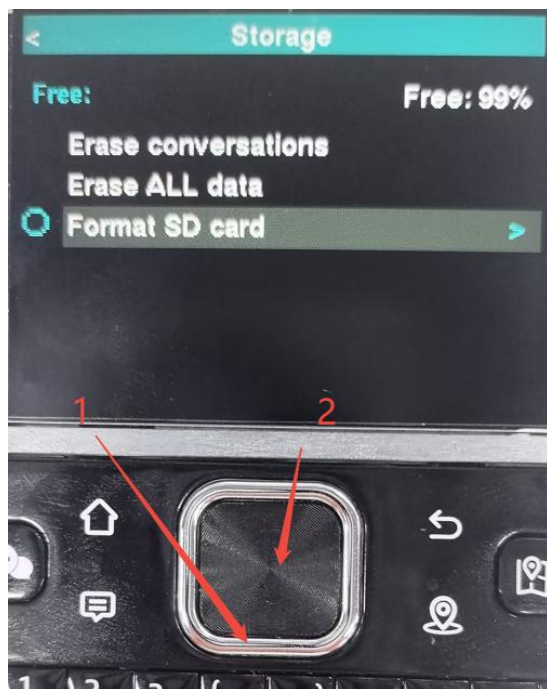
1. Return to the main screen and click the menu menu



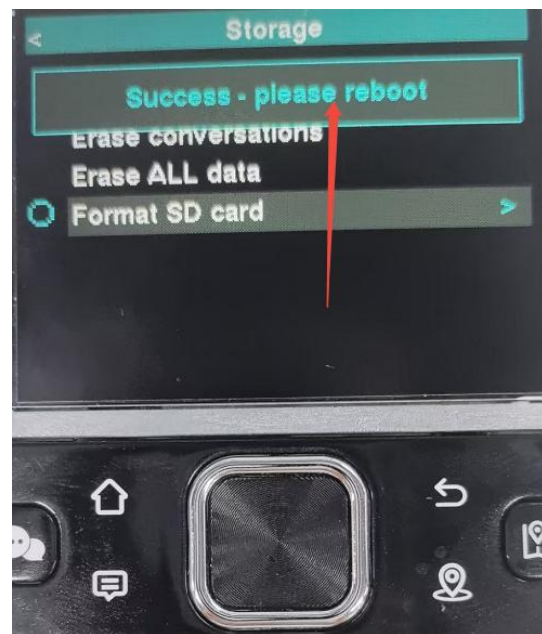
2. Open the submenu options, continue pressing the Down button until you find storage, and then press the center button to confirm



3. On the storage screen, press the Down button to select Format SD card, and then press the center button



4. Success please reboot is displayed



5. Toggle the switch on the right side of the device to restart it. After the device restarts, it will automatically perform a quick format of all content on the SD card, including any viruses. The viruses will be completely removed, and the device can then be used safely (Note that it is normal for the display to remain blank)

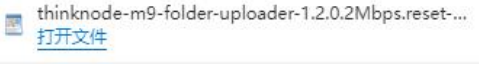


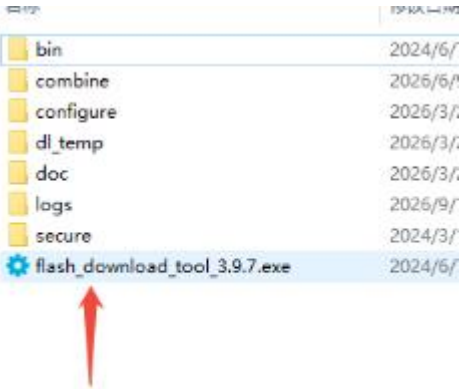
6. The device automatically opens the main screen. Press the Map button

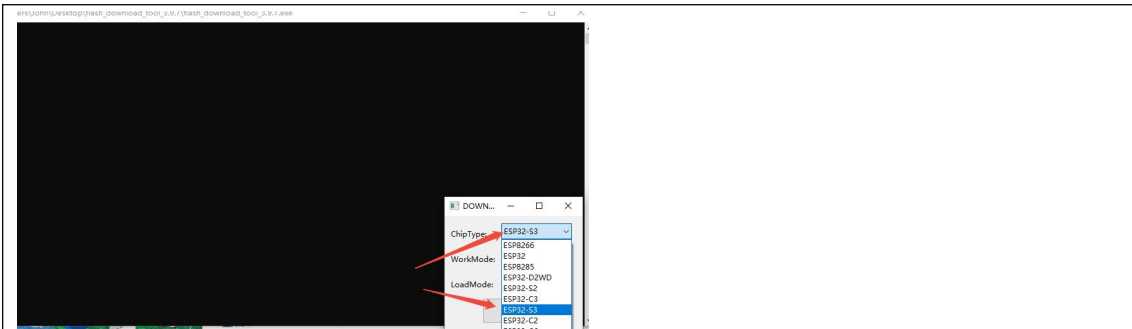


7. The map will not display any content. The map has now been cleared.	
	

三、Download the Map Again

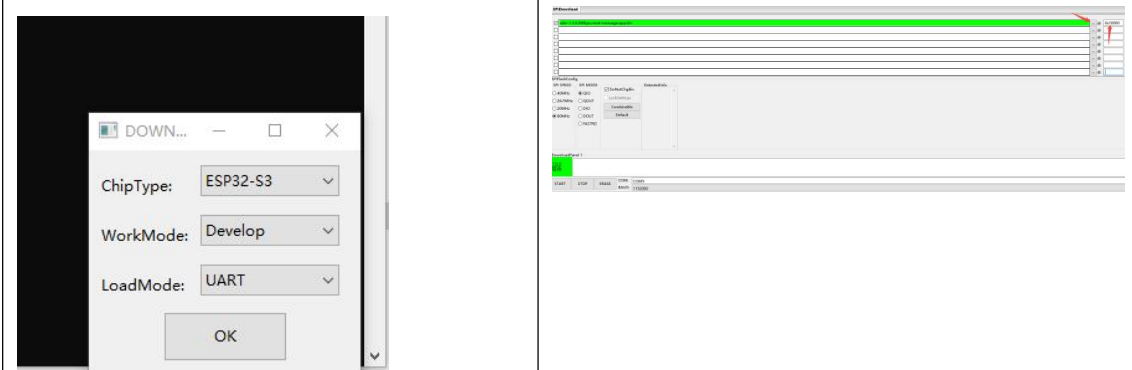
1. Go to the upgrade firmware download page for formatting the SD card on the elecrow ThinkNode M9: https://m9.thinknode.cc/thinknode-m9-folder-uploader-1.2.0.2Mbps.reset-message.app.bin

2. Save the file in a newly created folder so that it is easy to locate

Download and Open the official ESP32 download tool, and double-click : https://www.elecrow.com/download/ThinkNode/flash_download_tool_3.9.7.zip

4. Select the ESP32-S3 chip



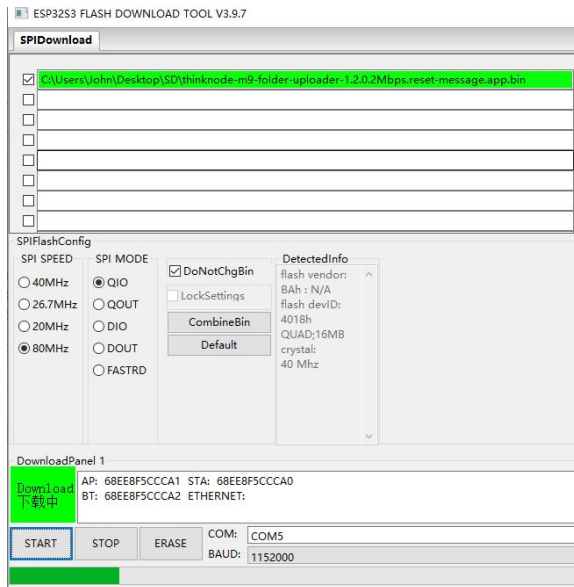
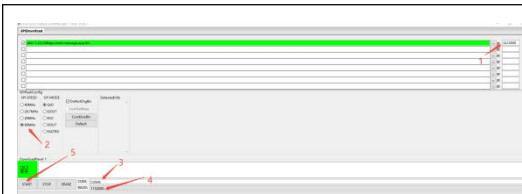
5. Configure the remaining options as shown below, and click OK

6. Click the location indicated by the arrow and select the saved bin file, **Note: The address must be filled in as 0x10000, as indicated by the arrow in the figure below. If an incorrect address is entered and the firmware is flashed, you will need to start over from step 1 by upgrading to the official firmware again before proceeding. Failure to do so will cause issues with subsequent map downloads, such as being unable to connect to the device or enter the map download screen as described in step 14.**



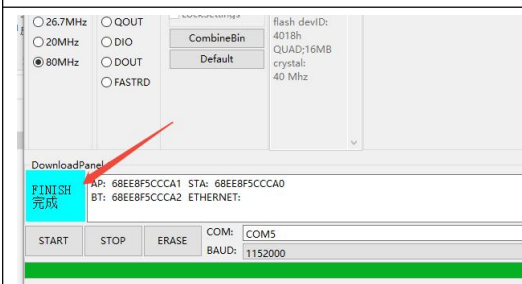
7. Follow the steps, and finally click start to download the firmware

8. Wait for the download to complete.



9.The download is complete

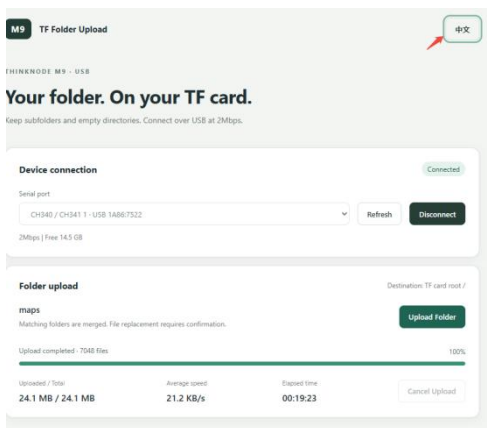
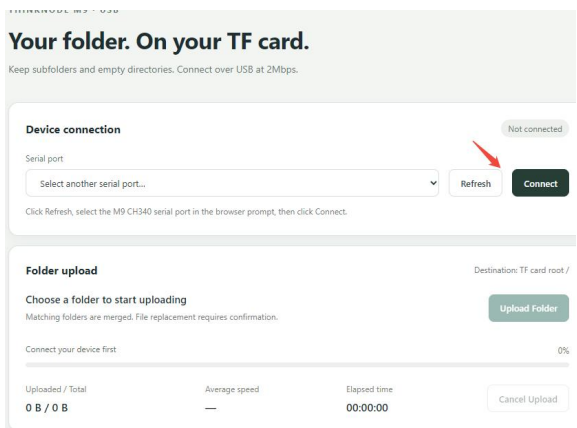
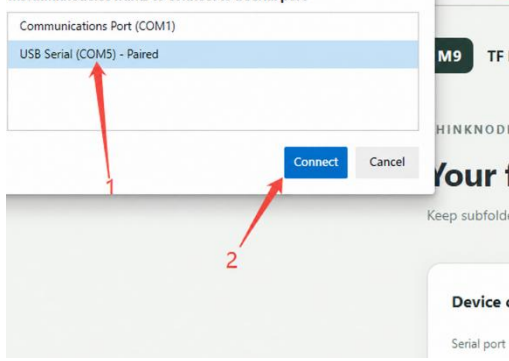
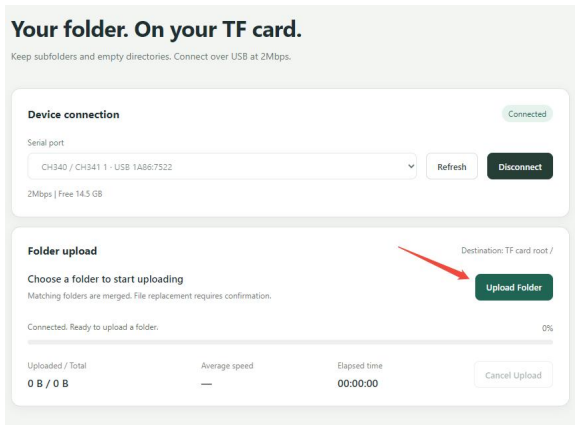
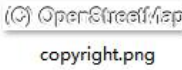
10. This firmware can also format the micro SD card and remove viruses. Toggle the switch on the right side of the device to restart it,after the device restarts, it willagainautomatically perform a quick format of all content on the SD card, including any viruses. The viruses will be completely removed, and the device can then be used safely(Note that it is normal for the display to remain blank)

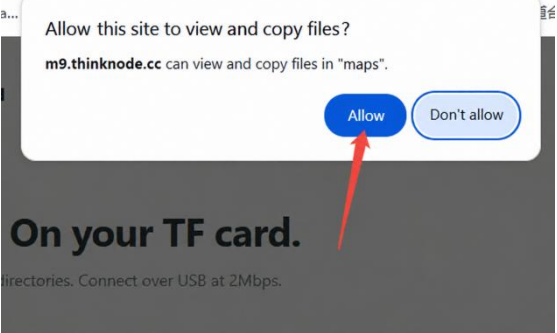
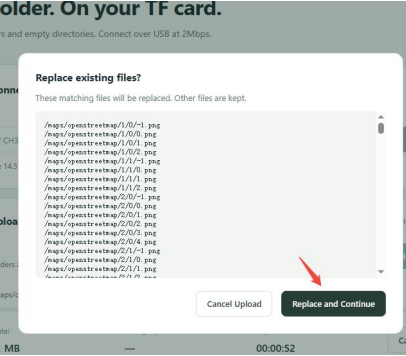
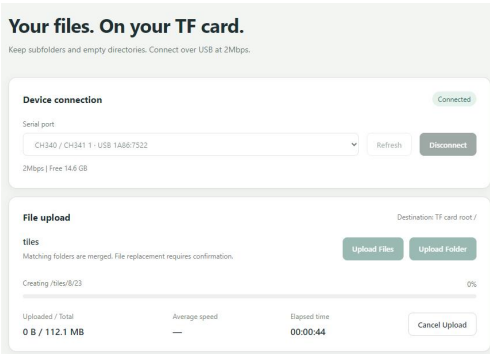
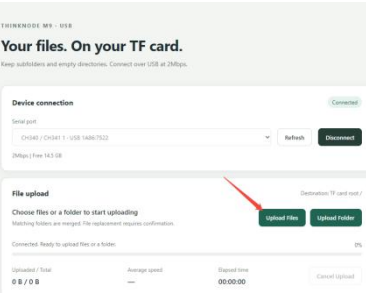
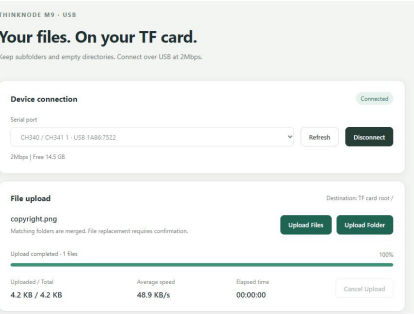


11. Go to the map flashing website:

<https://m9.thinknode.cc/>

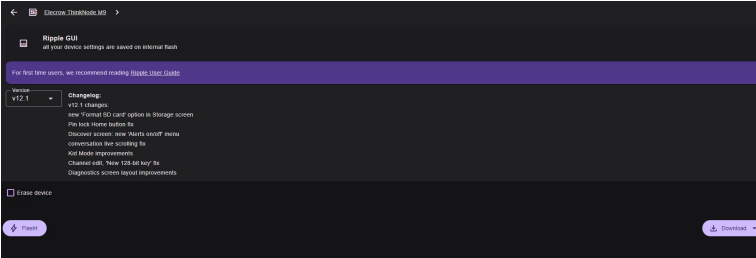
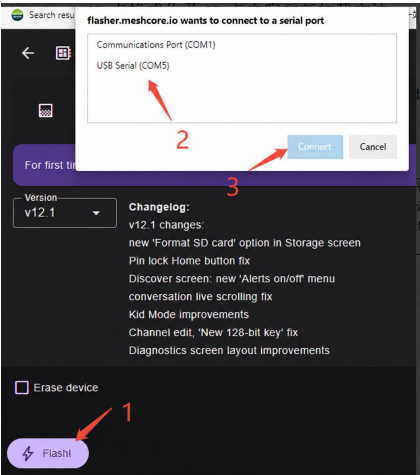
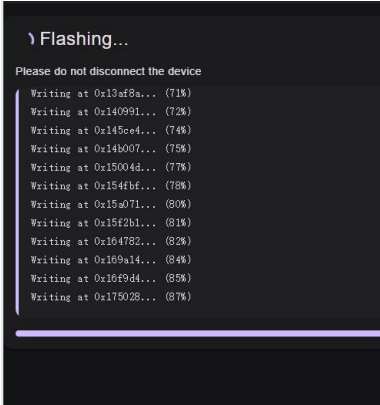
12. Click Connect Serial Port

and select English or 中文 at the location indicated by the arrow	
	
13. Select the port. For this device, select com5, and then click Connect. Select the port number based on the actual device	14. Upload the map folder,tiles
	
15. Download the meshcore Map files,The file contains the content shown in the figure below. https://www.elecrow.com/download/ThinkNode/Meshcore_Map_files.zip	
 tiles  copyright.png	

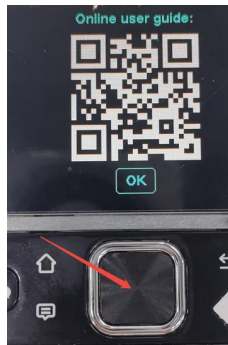
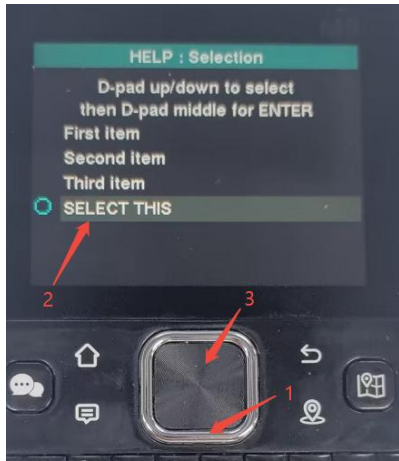
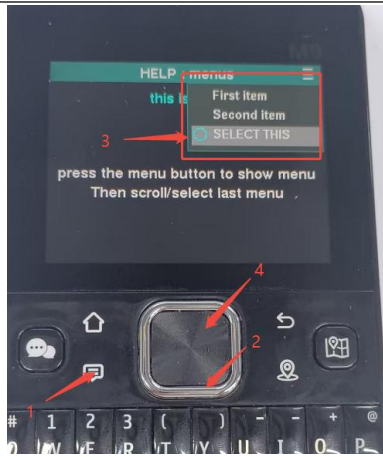
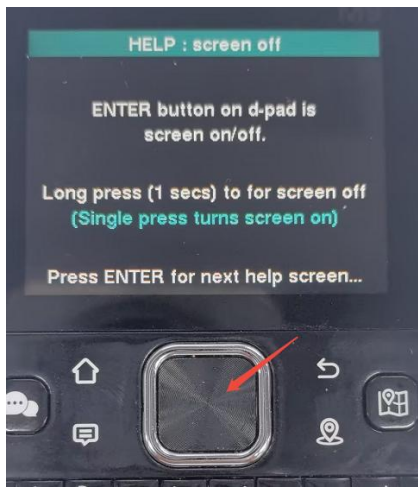
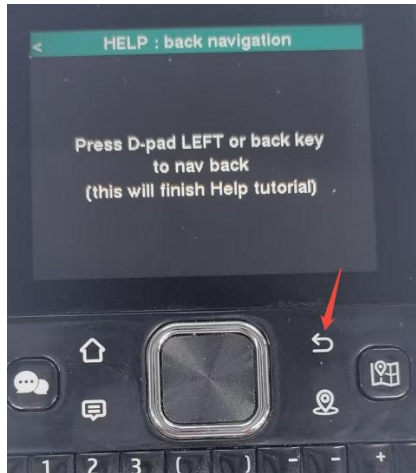
16. Select the tiles folder: tiles	17.Allow the website to view and copy files
	
18.Click Replace and Continue	19.Wait for the download to complete. The file is large and is expected to take approximately two hours
	
20. After the tiles files have finished downloading, click upload files	21.Select copyright: copyright.png
	
22. The image downloads quickly. Once it is complete, all SD card map files have been downloaded.	
	

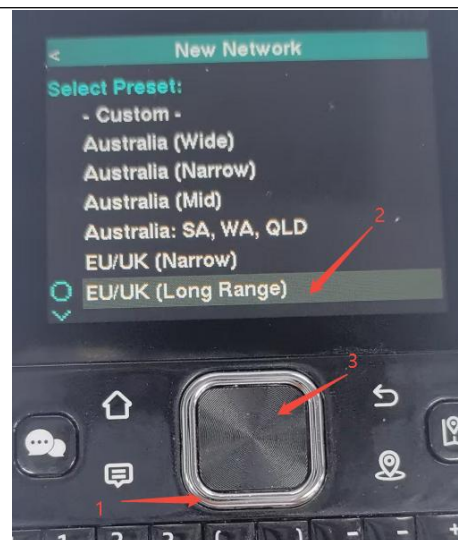
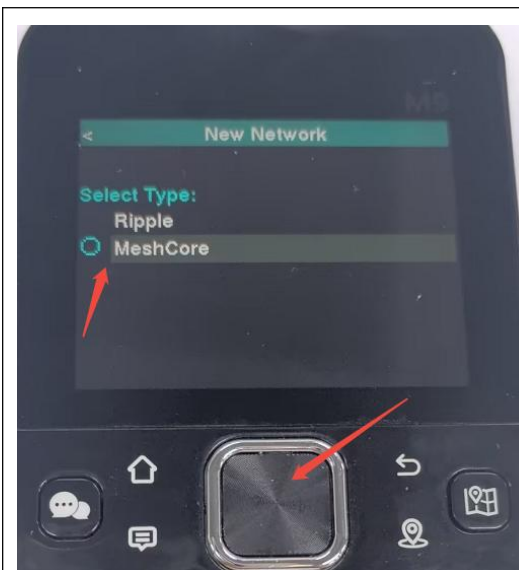
四、Reinstall the Factory Firmware and Verify the Map.

Reinstall the Factory Firmware

1. Go to the Meshcore firmware download page: https://flasher.meshcore.io/elecrow-thinknode-m9/ripple-gui/v12.1	
	
2. Click flash. When the communication port dialog appears, select the port. For this device, select com5, and then click Connect. Select the port number based on the actual device. Note that you may need to click flash several times before the communication port selection appears.	
	
3. Enter the firmware flashing and upgrade screen, and wait for the flashing process to complete	4. The device restarts automatically after flashing is complete
	

Verify the Map

1. Power on the device 	2. Press the center OK button to confirm 
3. Press the Down button, select select this, and then press the Confirm button	4. Click the menu, press the Down button, select select this, and finally press the center button
	
5. After entering the screen shown below, press the center button	6. After entering the screen shown below, press the Back button
	
7. Select Meshcore and press the center button	8. Select any option, such as EU/UK(long range)



9. Enter a name and press the center button

10. Go to the main screen



11. Click the location indicated by the arrow to open the map

12. Use the Left, Right, Up, and Down buttons to move the map, and press the center button to zoom in. You can then view a more detailed map

