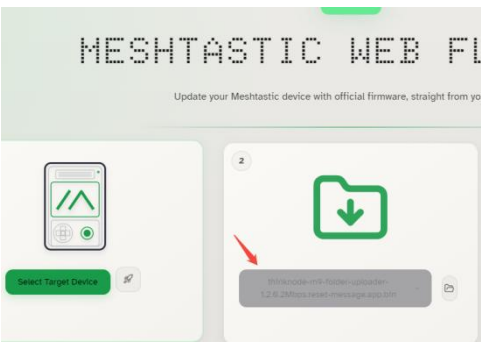
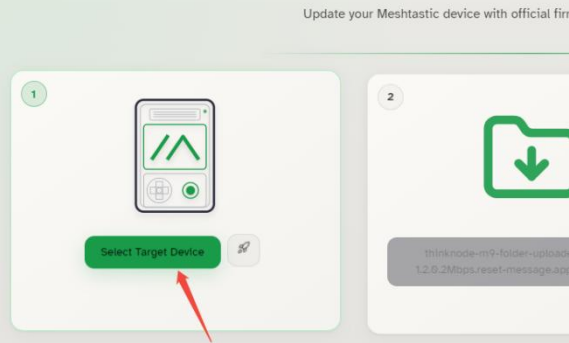
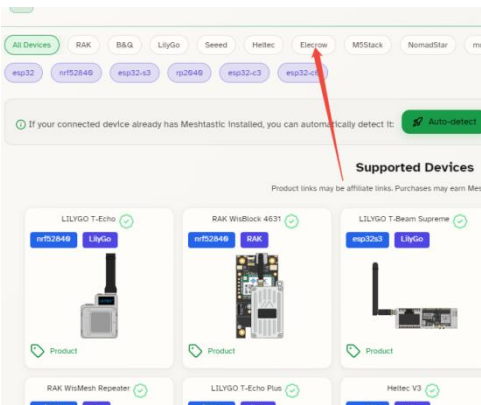
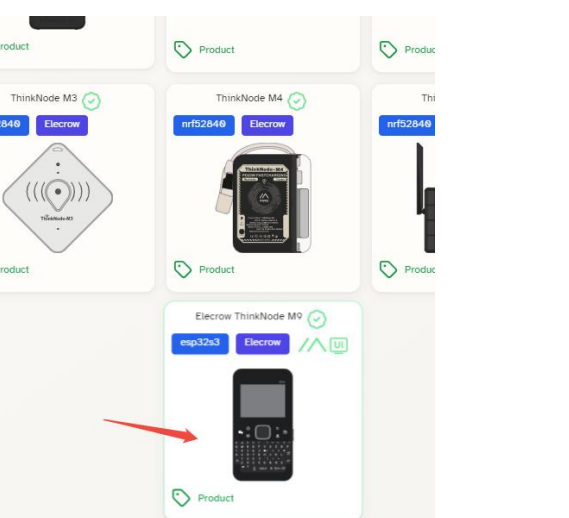
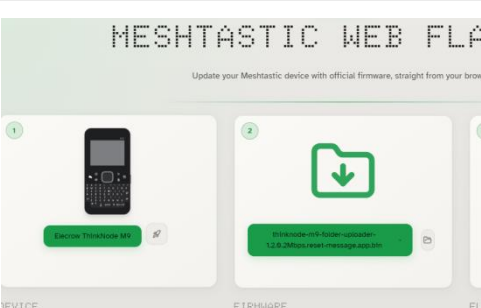
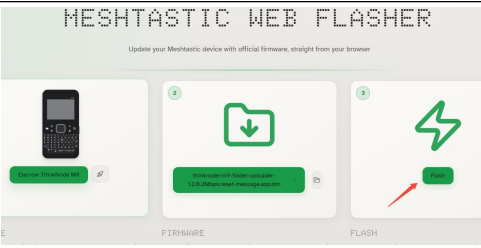
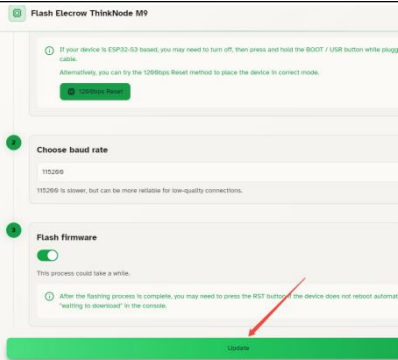
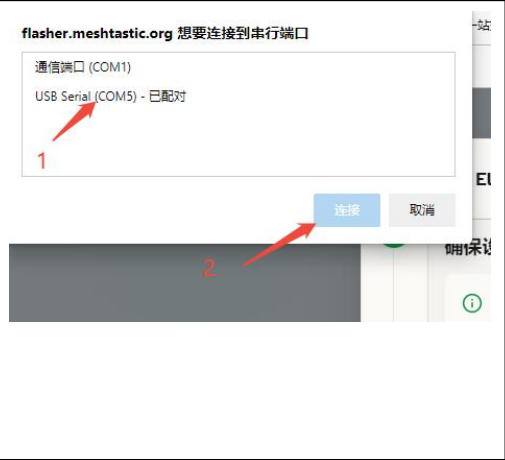
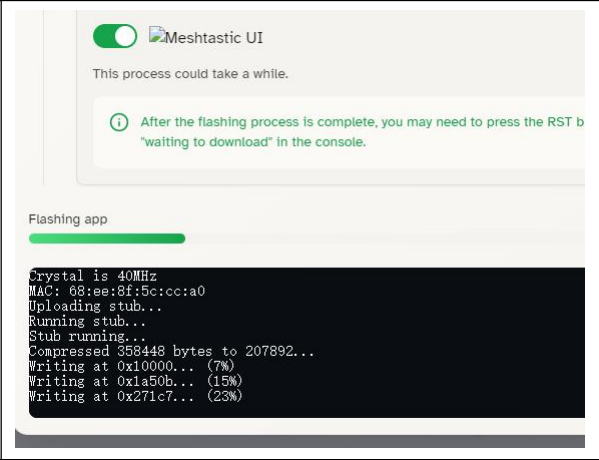
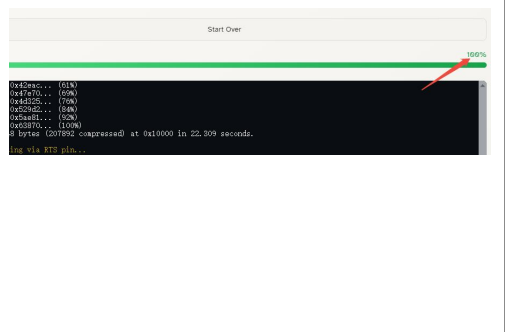
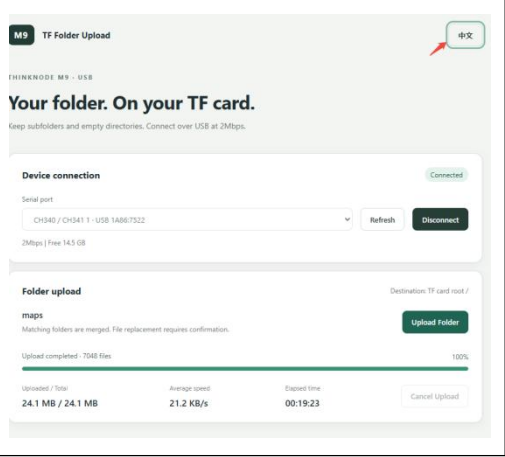
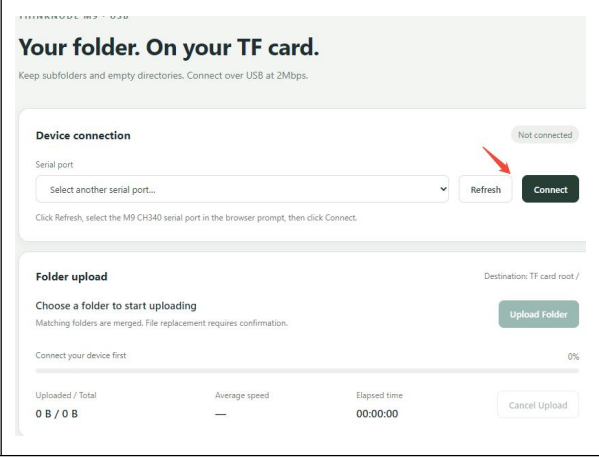
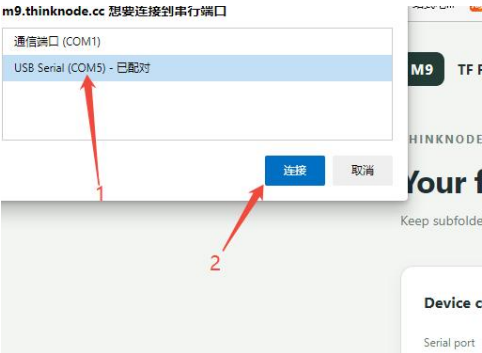
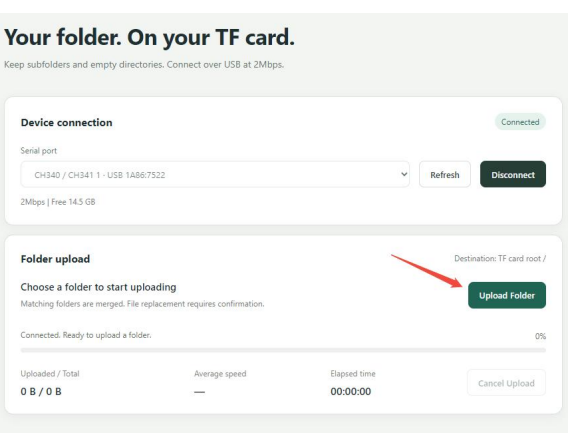
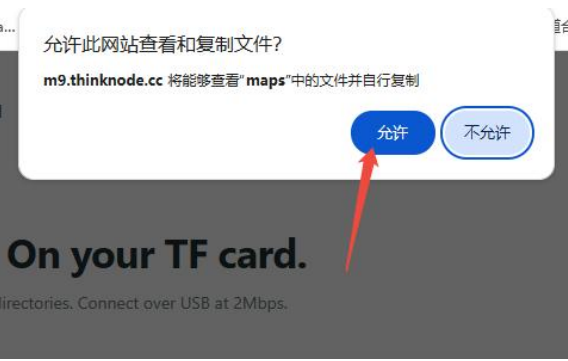
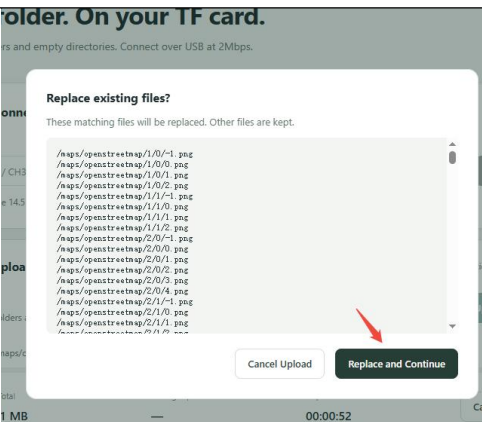
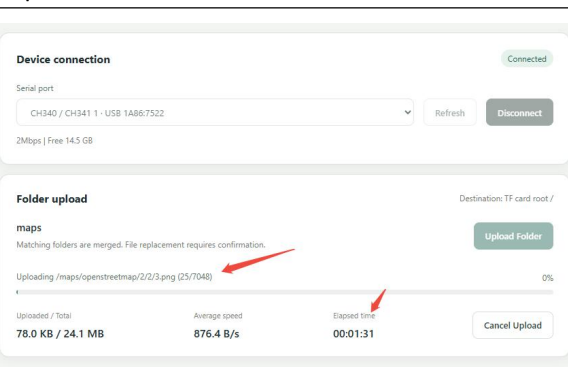
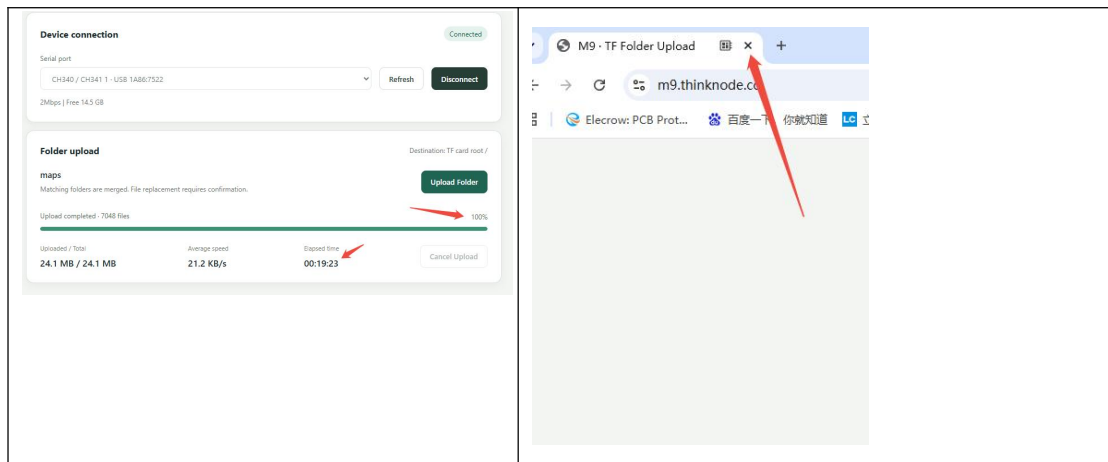


5. The firmware has been imported. 	6. Select the target device. 
7. Open the device list and select Elecrow. 	8. Scroll down and locate M9. 
9. The M9 device is displayed. 	10. Connect the device via USB. 
11. Clickflash 	12. On the flashing screen, click update. 

13. Select the port. The port for this device is com5. Click Connect. Select the port number that corresponds to the actual device.	14. Wait for flashing to complete.
	
15. Flashing reaches 100%. After flashing is complete, close this page to prevent the serial port from remaining occupied and interfering with map flashing in the next step.	18. 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 the SD card, completely removing all content, including viruses. The card can then be used safely. (Note that it is normal for the display to remain blank.)
	
19. Go to the map flashing website: https://m9.thinknode.cc/ select English or Chinese at the location indicated by the arrow.	20. Click Connect Serial Port.
	

21. Select the port. The port for this device is com5. Click Connect. Select the port number that corresponds to the actual device.	22. Upload the map files folder.
	
23. Select the maps folder. Refer to Section 4 for instructions on creating the maps folder.	24. Allow the website to view and copy files.
	
25. Click Replace and Continue.	26. Wait for the download to complete. This is expected to take 15 minutes.
	
27. The download is complete, and the SD card has been updated.	28. Close this webpage (it must be closed to avoid interfering with subsequent operations).

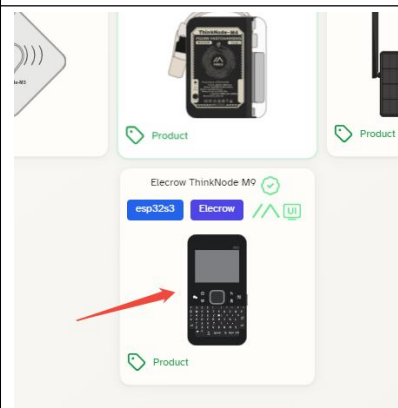


三、Reinstall the Official Meshtastic Firmware

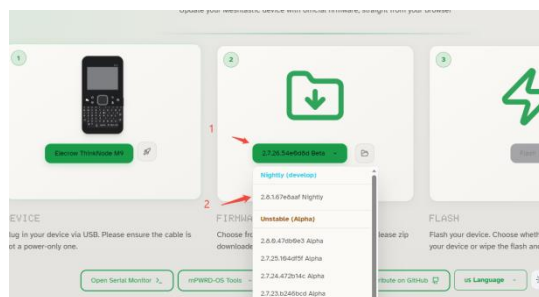
1. Go to the official Meshtastic firmware flashing website:
<https://flasher.meshtastic.org/>



2. Select ThinkNode M9.



3. Select the latest firmware version, as shown in the figure.

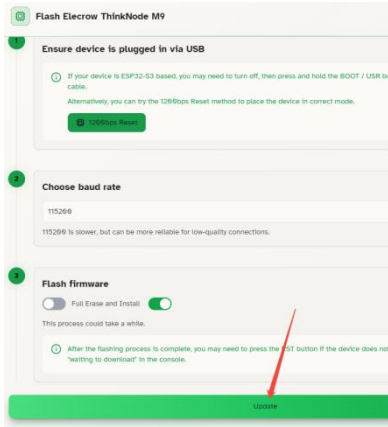
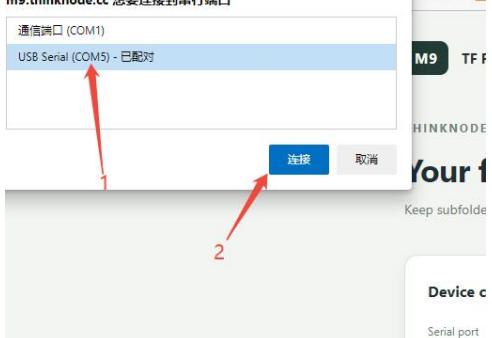
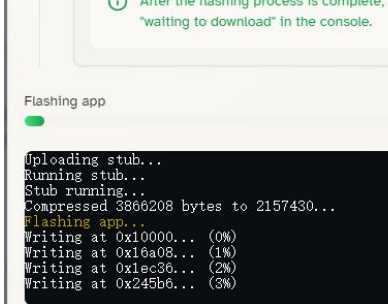
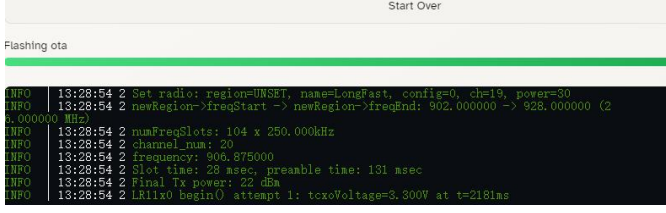


4. Click flash.



5. Scroll down and locate continue.

6. Click Update.

- Native Portduino malloc shrink added for more realistic memory behavior. - Bluetooth memory freed automatically when Wi-Fi is enabled or Bluetooth when disabled (#10571). - NodeDB "warm store" - new persistent warm-tier node storage layer platforms, #10809 fixing associated spiLock deadlocks). 2.8 NodeDB shrink/decoupling/restructuring to reduce per-node memory. - Flash hardening, filesystem platform unification, and a write-behind (#10171). New APIs / module-author infrastructure MCP server added for interacting with Meshtastic devices and driving (#10194, #10861). - Native "sensors" simulation support for Portduino (#10748); Portduino (#10157). - Hardfault handler added for STM32, making crashes visibly obvious. - BinarySemaphorePosix implemented with proper pthread synchronization. - NimBLE parameter overhaul, including a fix attempt for incompatible STM32 ADC support added to AnalogBatteryLevel (#9369). - JSON library dependency removed from firmware builds while retaining firmware footprint for module authors relying on the JSON path. - Improved manual build flow / developer build ergonomics (#8839).- flexible notification rules (#10006). Continue	
7. Select the port. The port for this device is com5. Click Connect. Select the port number that corresponds to the actual device.	8.Wait for the download.
	
10.Flashing reaches 100%. After flashing is complete, close this page to prevent the serial port from remaining occupied and interfering with map flashing in the next step.	11. Restart the device.
	
12. Press and hold the center button.	13.Tap Map.



四、Reference for Creating the maps Folder

1. Go to the map download page:

<https://download.tiles.coalition.space/bundles>

Chief's Map Tile Downloader

Pre-built Tile Bundles

Download pre-built tile bundles for Meshtastic. These bundles are ready to use on any other app that reads standard tile bundles, which means they can be used with other apps like Mapbox, OpenStreetMap, etc. Click a link to view the pre-built bundles. Don't forget to check the license for each bundle.

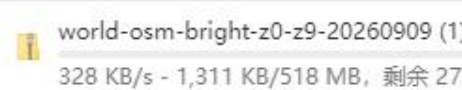
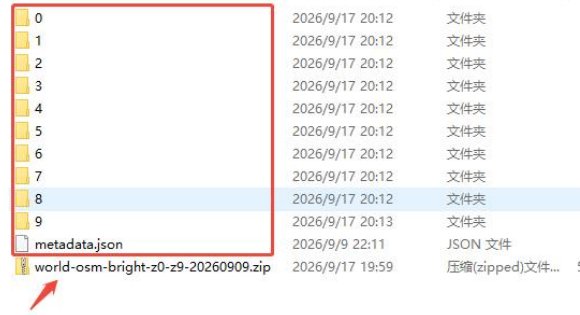
Region:

Region	Zoom	Size	Size	Size	Format
World	0-15	81,447	101.7 MB	8 MB	256MB/256K
All United States	0-15	1,248,176	1.27 GB	1 MB	256MB/256K
Southern Canada	0-15	981,776	1.01 GB	1 MB	256MB/256K
All Europe	0-15	1,248,176	1.27 GB	1 MB	256MB/256K

2. Download a map. For example, for the world map, select zip.

Overview (0)

Region	Zoom	Size	Size	Size	Format
World	0-15	81,447	101.7 MB	8 MB	256MB/256K
All United States	0-15	1,248,176	1.27 GB	1 MB	256MB/256K
Southern Canada	0-15	981,776	1.01 GB	1 MB	256MB/256K
All Europe	0-15	1,248,176	1.27 GB	1 MB	256MB/256K

3. Start the download. The time required to download the map depends on the network speed and file size.	4. After downloading, the map will be a compressed archive, as indicated by the arrow. Extract it. The extracted contents are shown in the red box.
	
5. Create two new folders: maps and openstreetmap. Place all maps in the folders. The figure only shows map levels 0-6.	6.The details are shown in the figure below. The maps folder is now complete.
