ATESS | ENERCOLLEGE

Guidelines for Using Commonly Used Tools

Standard Operating Procedures-SD Card

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Technical Support Document

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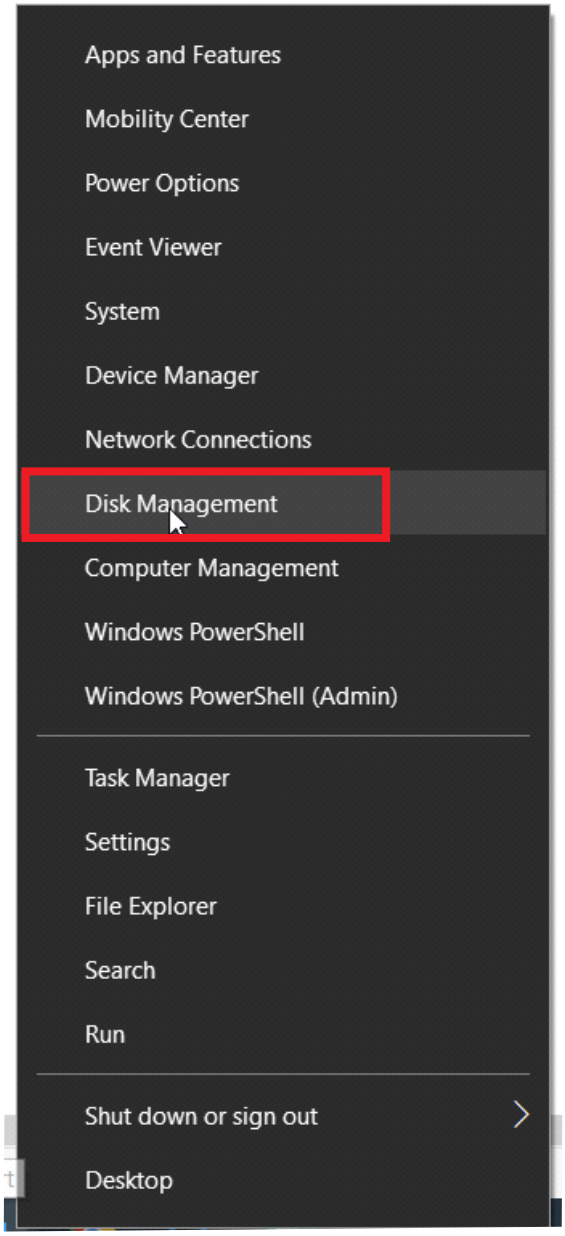
1 Introduction

During the use of EV Chargers, SD cards can be used to upgrade critical modules such as the screen, motherboard, and SECC. This article will introduce how to correctly use SD card tools to efficiently complete various upgrade operations, helping to optimize device performance and ensure stable system operation.

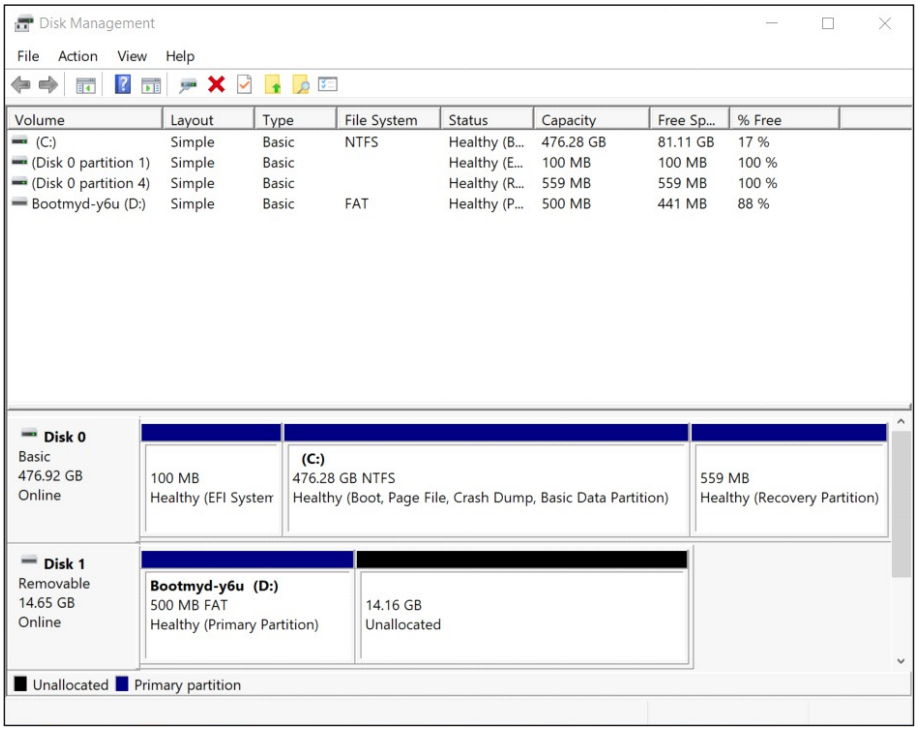
2 How to Format SD Card

1. Before using an SD card, you need to format it first.

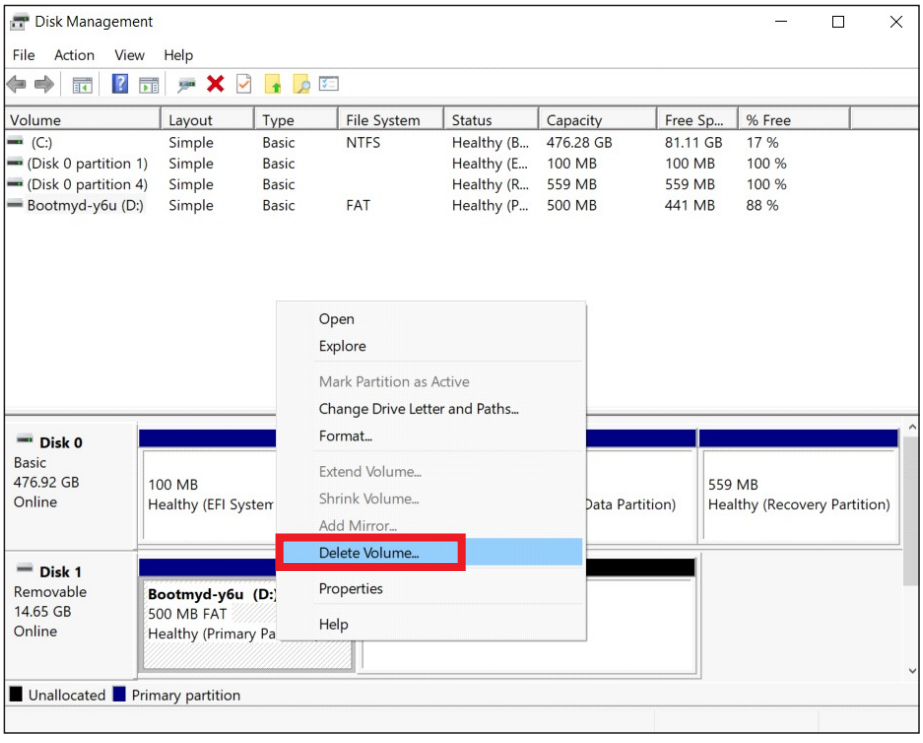
2. Right-click the Menu, and there is a “Disk Management” section. Click it, and you can get into the disk management page.

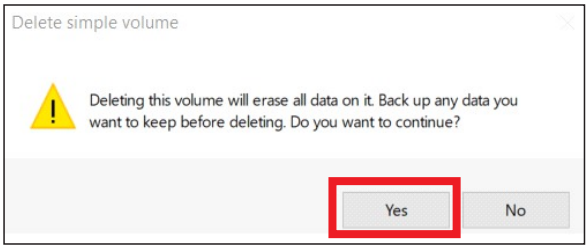


3. Find the mirrored SD card.

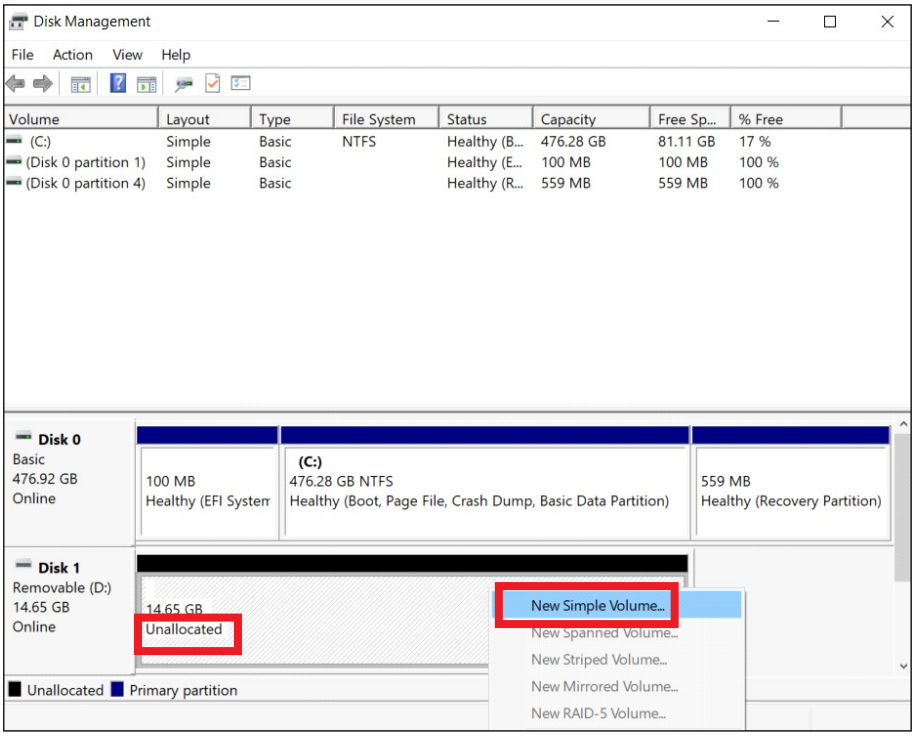


4. Right-click the first part which been allocated, select “Delete Volume”, then select “Yes”.

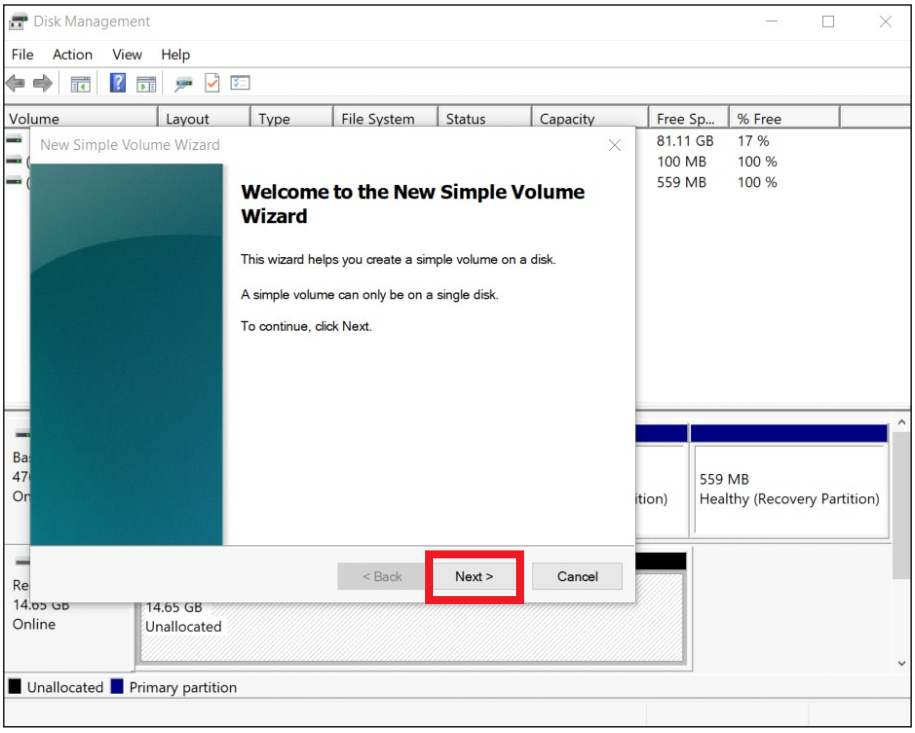


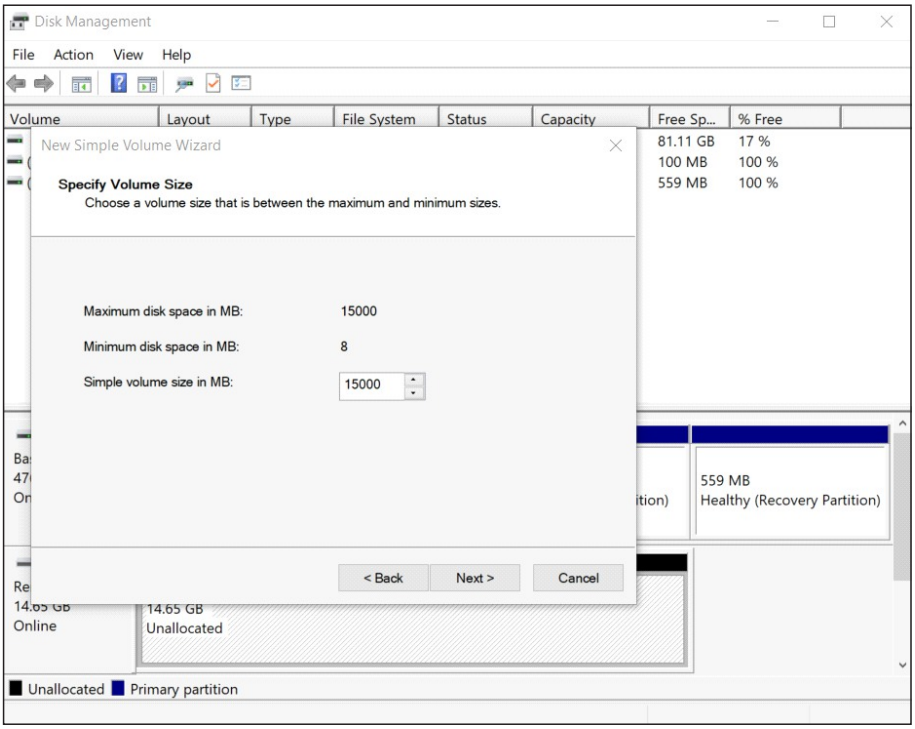


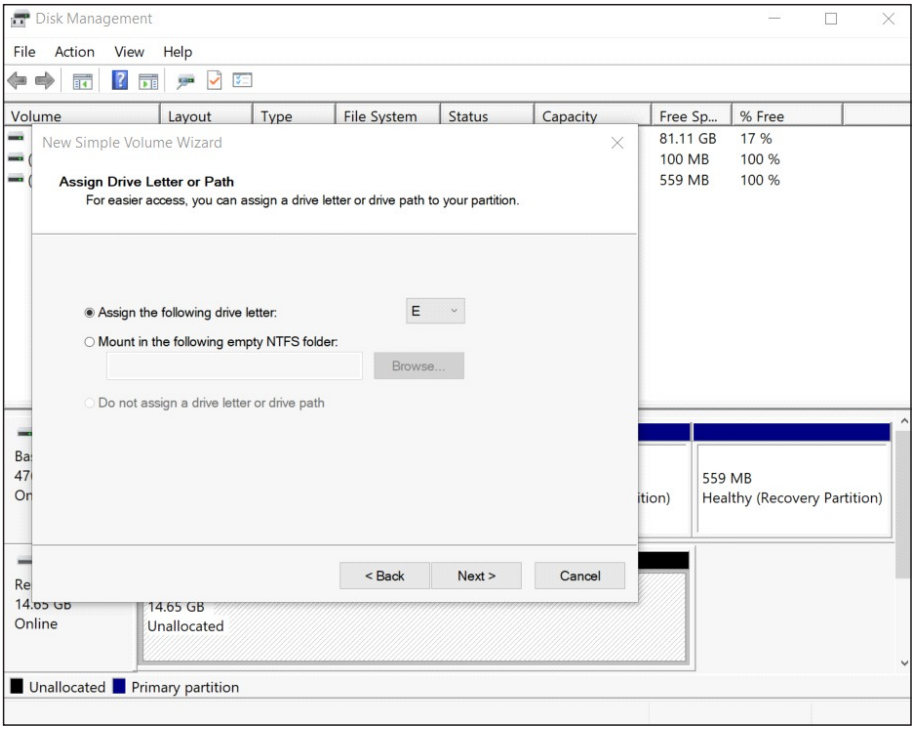
5. After that, we have a clear SD card. Right click the part that is unallocated, then “New Simple Volume”.

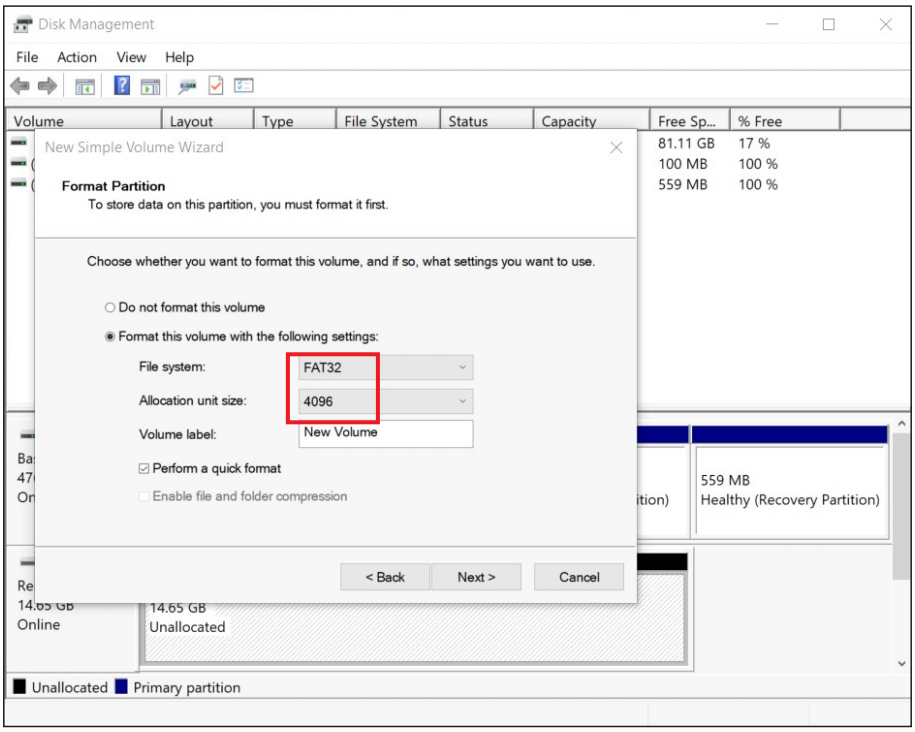


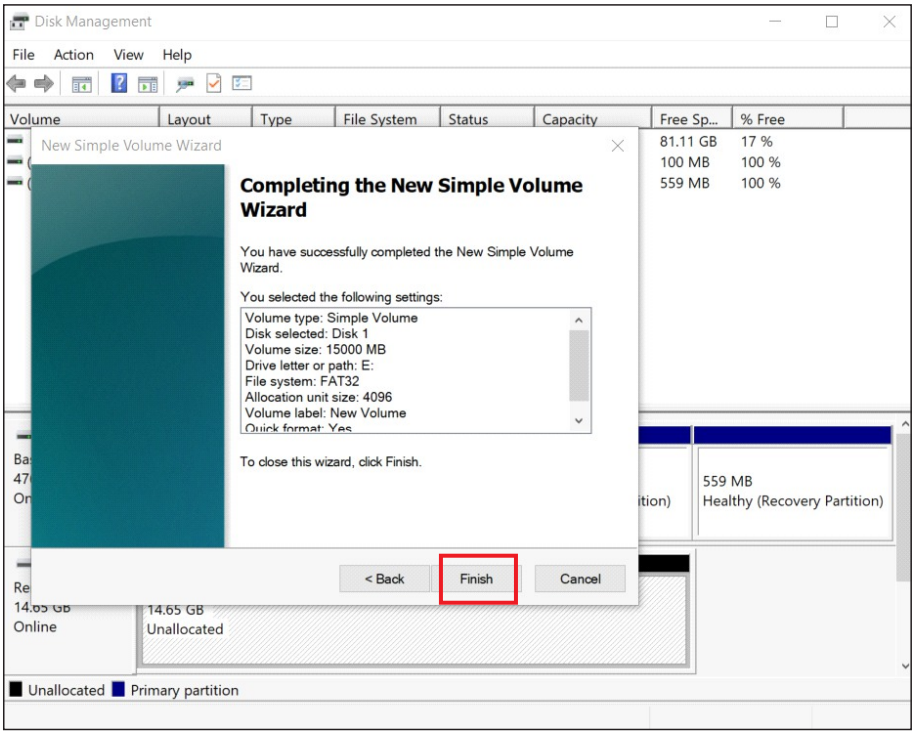
6. Start the New Simple Volume Wizard. Click “Next” in step 1, keep the values as the SD card, keep the default drive letter in the first red box. Then, select the file system as FAT32, the allocation unit size as 4096, and keep the Volume label as the default value. Click “Finish”.




Disk Management
File Action View Help
Volume Layout Type File System Status Capacity Free Sp... % Free
81.11 GB 17 %
100 MB 100 %
559 MB 100 %
New Simple Volume Wizard
Specify Volume Size
Choose a volume size that is between the maximum and minimum sizes.
Maximum disk space in MB: 15000
Minimum disk space in MB: 8
Simple volume size in MB: 15000
< Back Next > Cancel
559 MB
Healthy (Recovery Partition)
14.65 GB
Unallocated
Online
Unallocated Primary partition


Disk Management
File Action View Help
Volume Layout Type File System Status Capacity Free Sp... % Free
81.11 GB 17 %
100 MB 100 %
559 MB 100 %
New Simple Volume Wizard
Assign Drive Letter or Path
For easier access, you can assign a drive letter or drive path to your partition.
Assign the following drive letter: E
Mount in the following empty NTFS folder:
Browse...
Do not assign a drive letter or drive path
< Back Next > Cancel
559 MB
Healthy (Recovery Partition)
14.65 GB
Unallocated
Online
Unallocated Primary partition

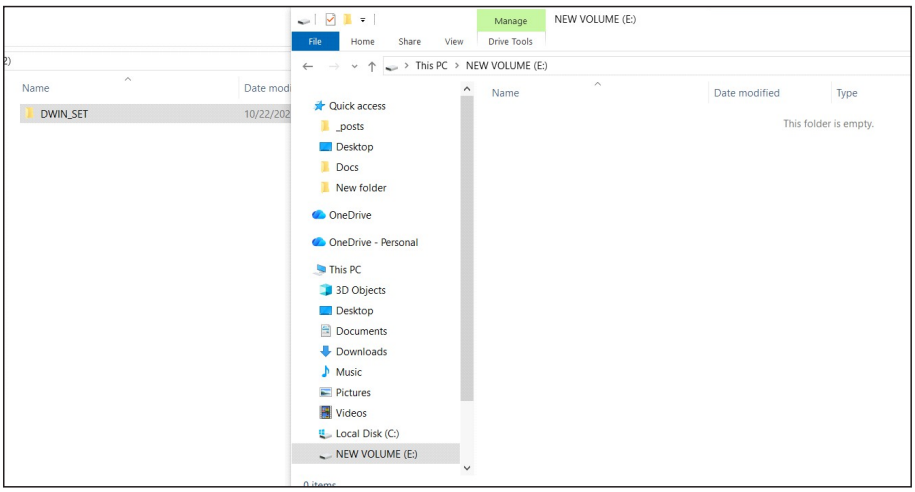


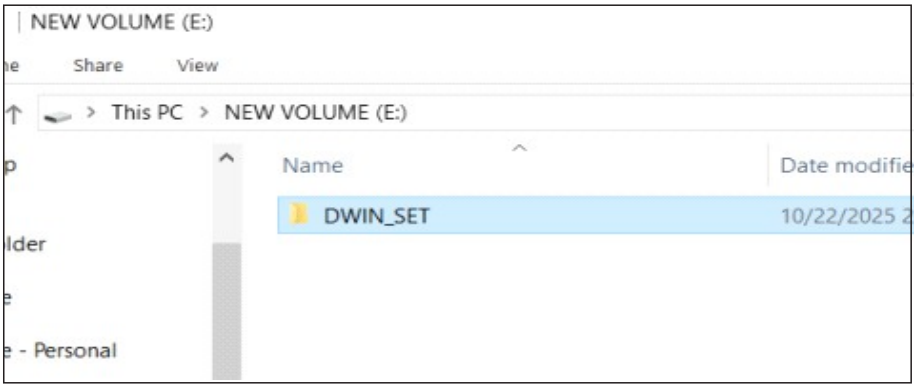


7. SD card recovery completed.

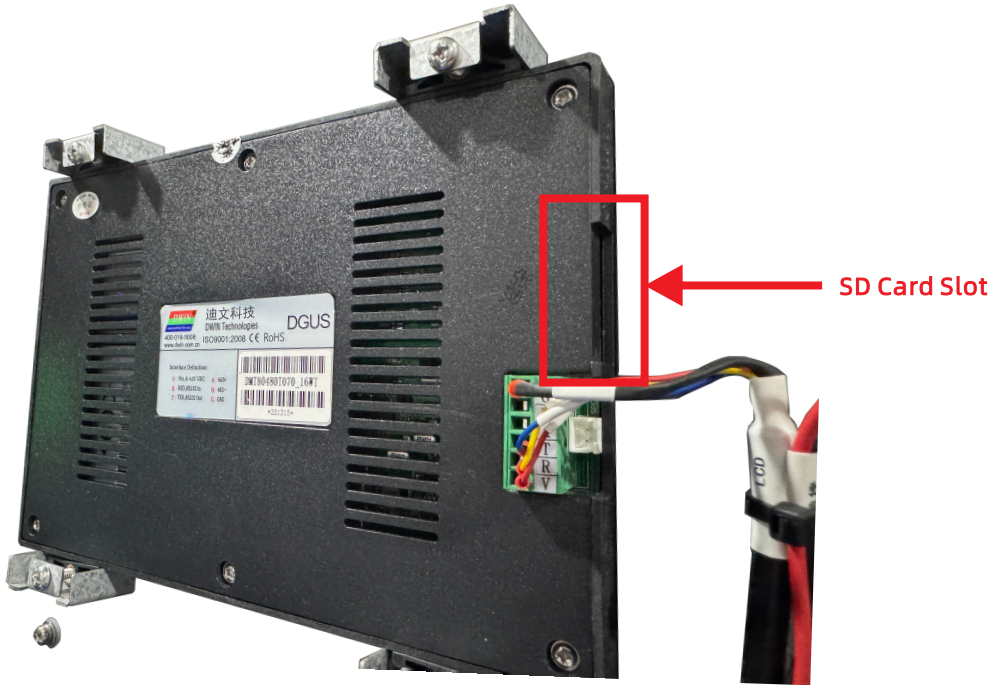
3 How to Upgrade the Screen through an SD Card

1. Make sure you have already formatted the SD card. Then put “DWIN_SET” into the SD card.

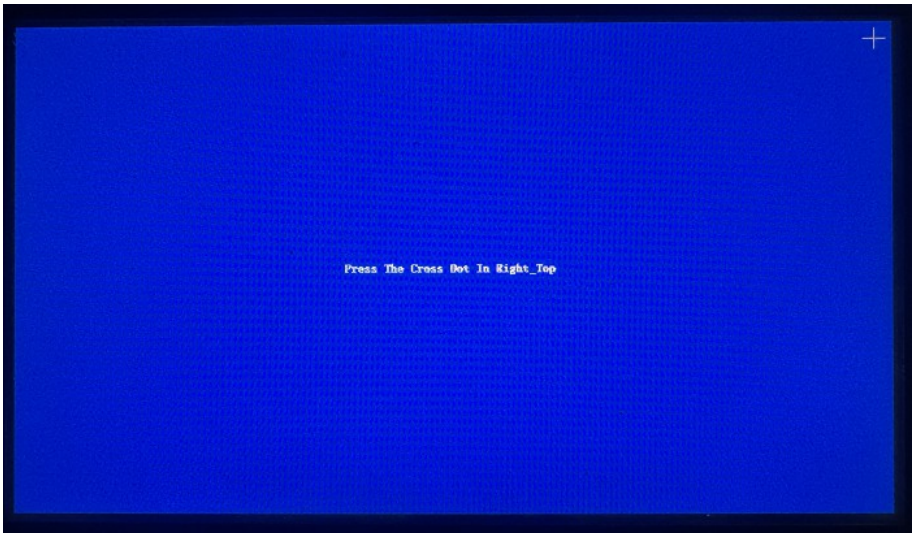




2. Turn the charger power off, then insert the SD card into the screen card slot, then turn the charger power on.



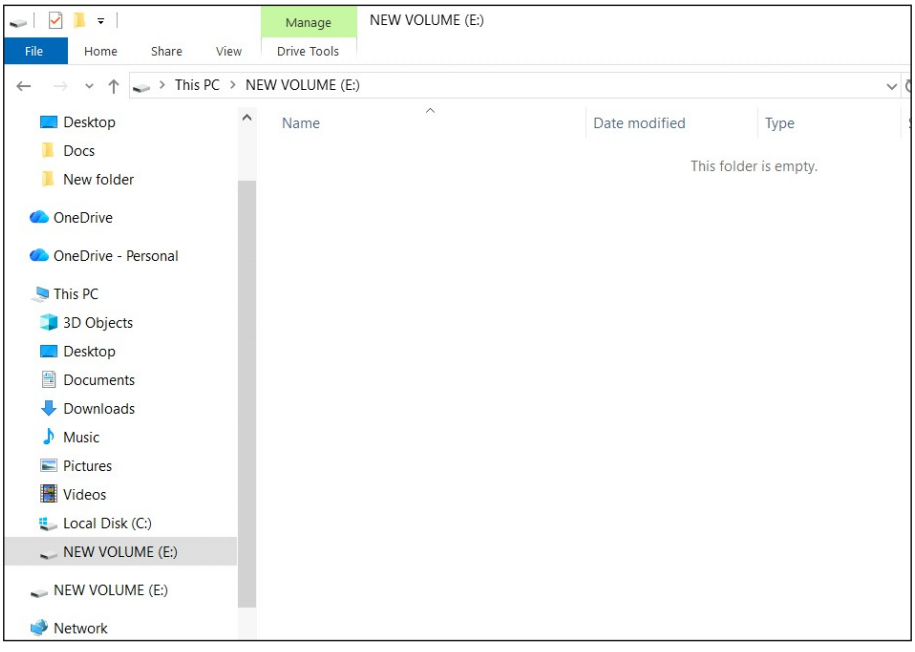
3. The screen will flash for a minute. After flashing stops, it will beep and turn blue.



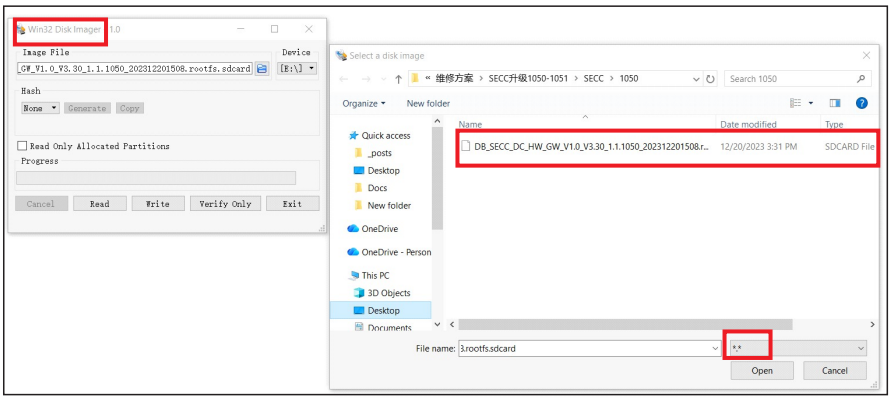
4. Then, there is a white cross on the screen. Use your finger to click it; this step aims to calibrate the screen.

4 How to Upgrade the SECC through an SD Card

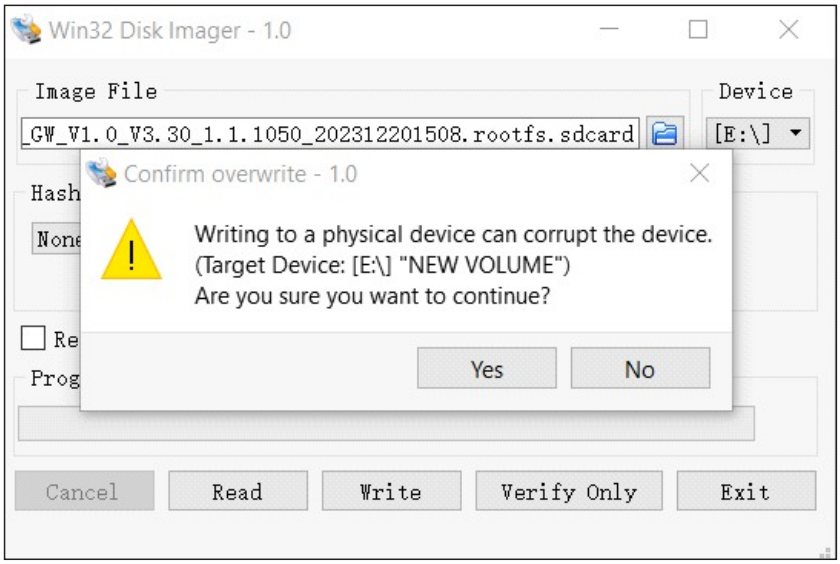
1. Make Sure you already format SD card.

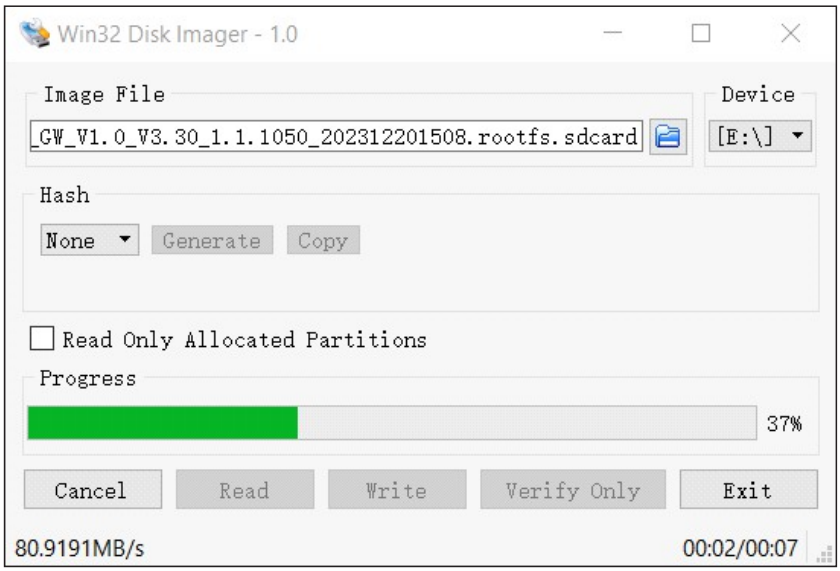


(1) Open “Win32DiskImager”. Select the drive letter corresponding to the SD Card. Select the file, then choose the file type to all “*.*”, then select the file that we used (ending with rootfs.sdcard) and open it.

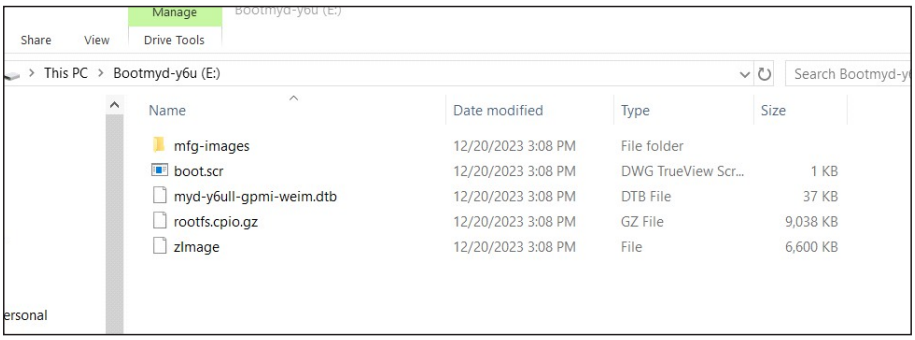


(2) Click “Write”, then click “Yes” to write SD Card. Then you can see the progress bar.



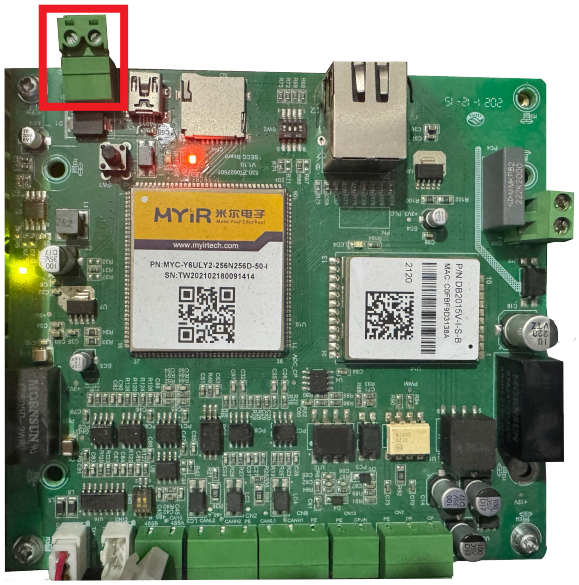


(3) After success, the following prompt will appear, and the content of the SD card is as follows.

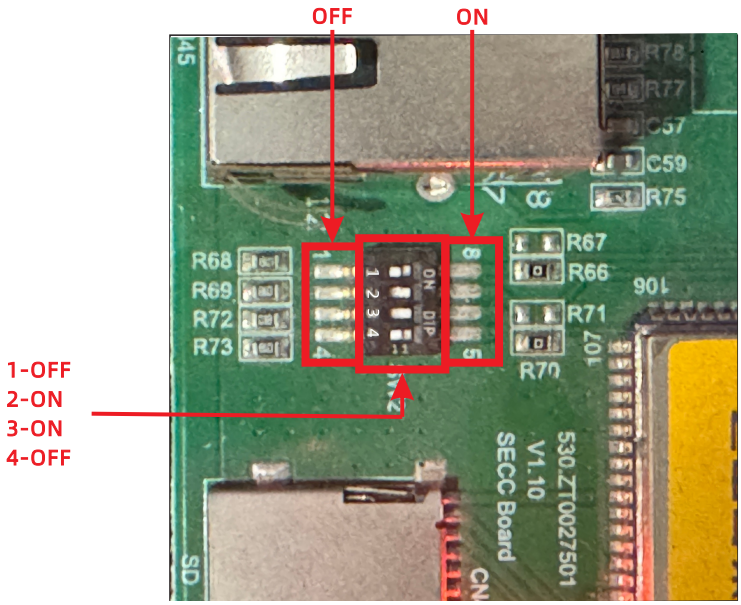


2. Upgrade SECC board.

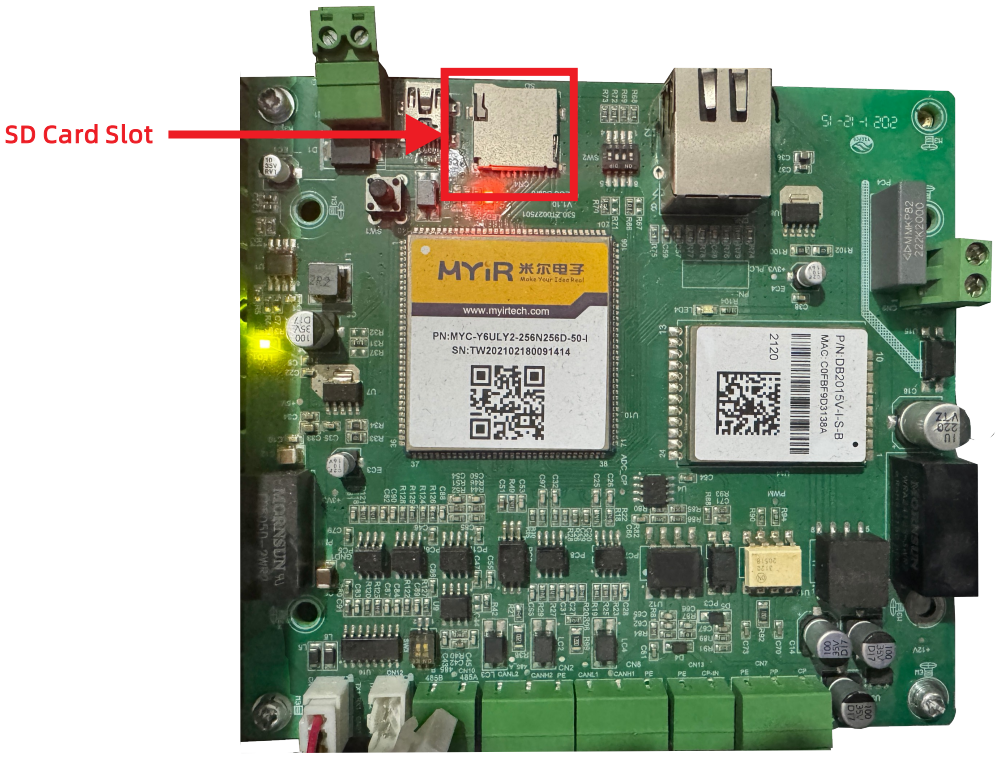
(1) Disconnect the 24V power supply from the SECC board.



(2) From top to bottom, they are 1, 2, 3, and 4. The left side is the OFF state, and the right side is the ON state. Set 1 and 3 to ON, set 2 and 4 to OFF.

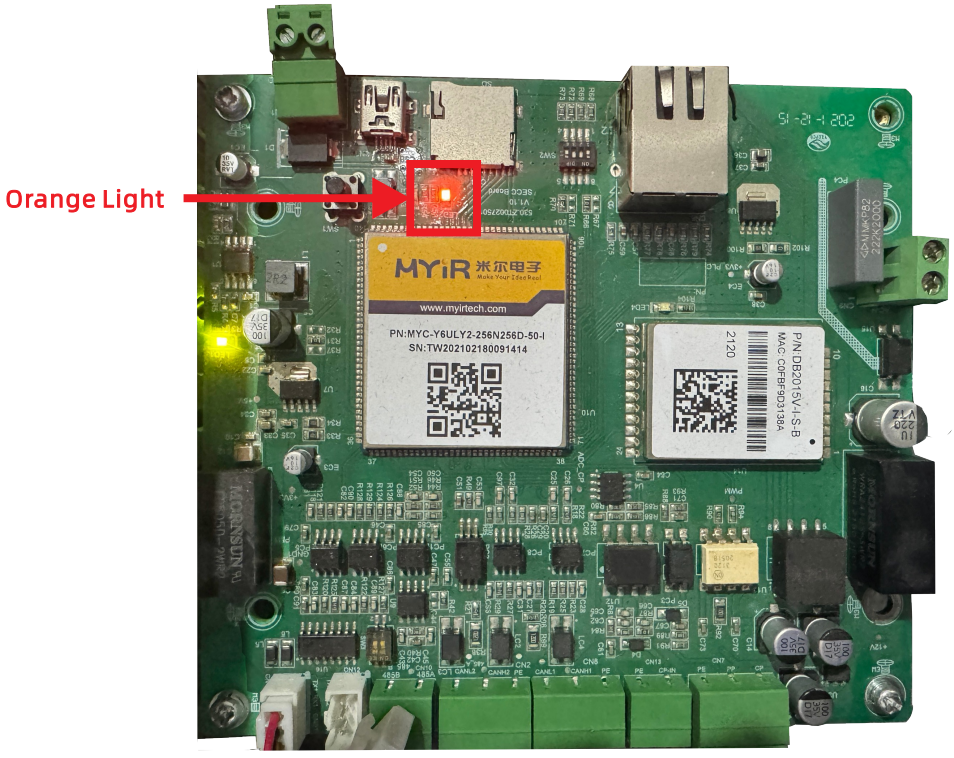


(3) Insert the SD card with the completed mirror file into the SD card slot on the SECC board, then connect the 24V power supply to start the upgrade.

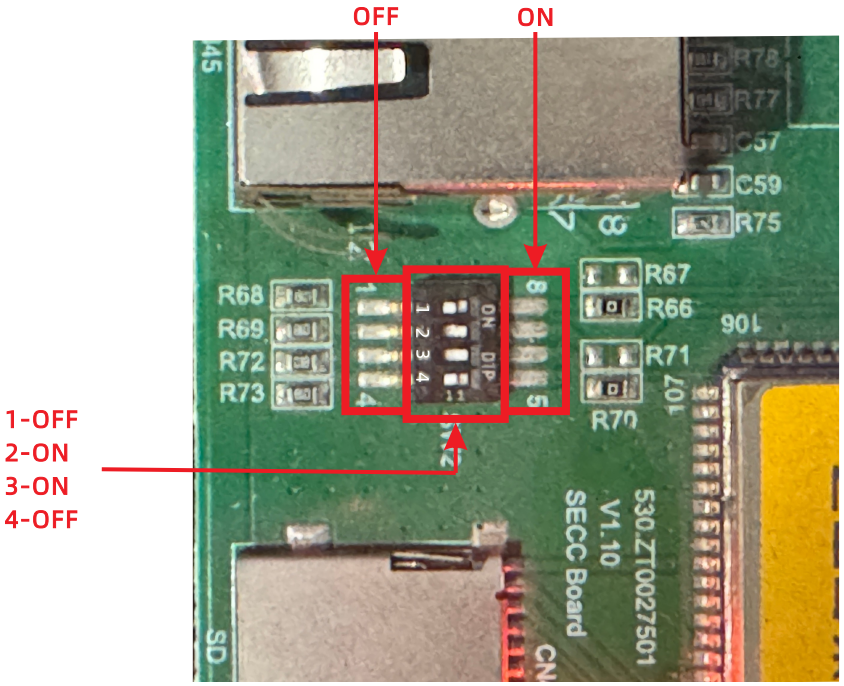


(4) During the upgrade process, the orange light in the picture will remain flashing (The entire upgrade process takes about 3 minutes; please be patient and wait).

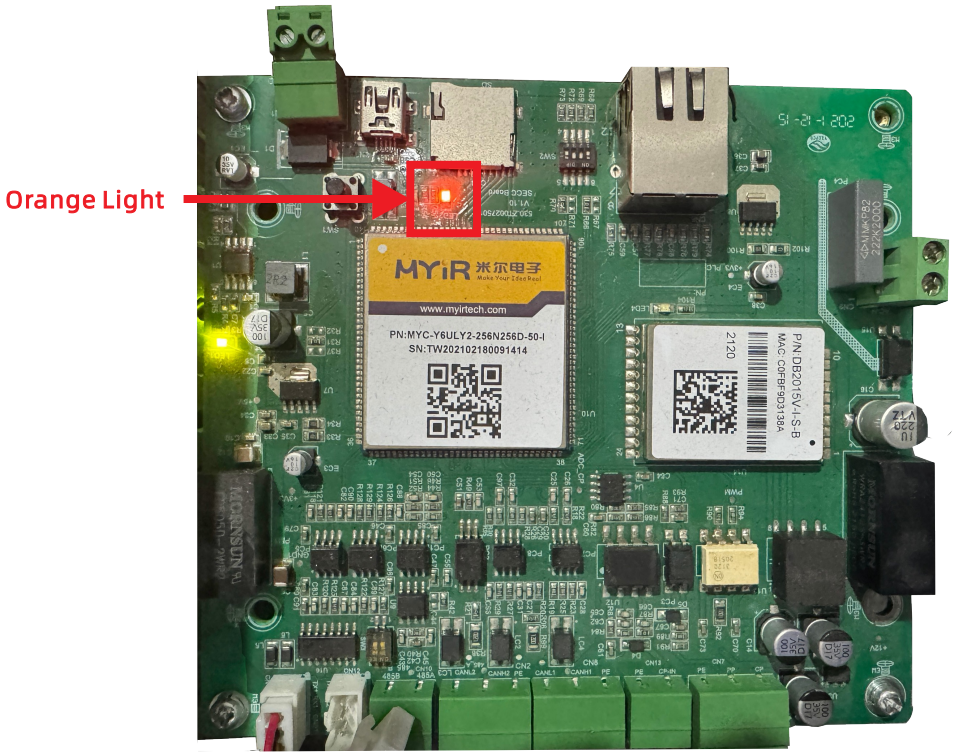
(5) After the upgrade is completed, the orange light shown in the figure will remain constant.



(6) Disconnect the 24V power supply from the board and remove the SD card, and set the switch to the following state.



(7) Connect the 24V power supply and wait for about one minute. The orange light is on and flashing, indicating a successful startup.

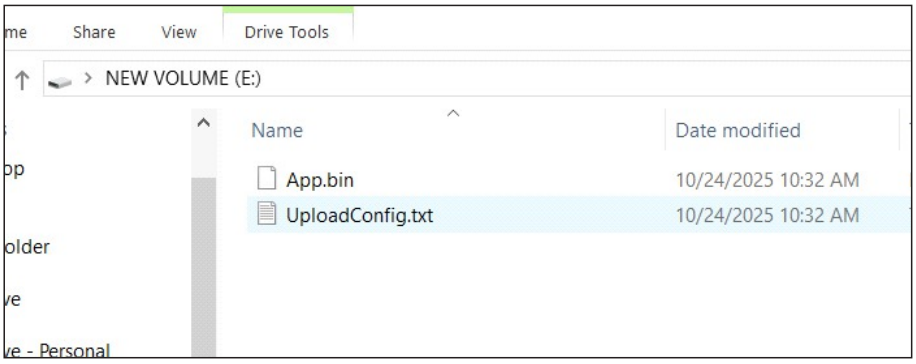


5 How to Upgrade the Motherboard through an SD Card

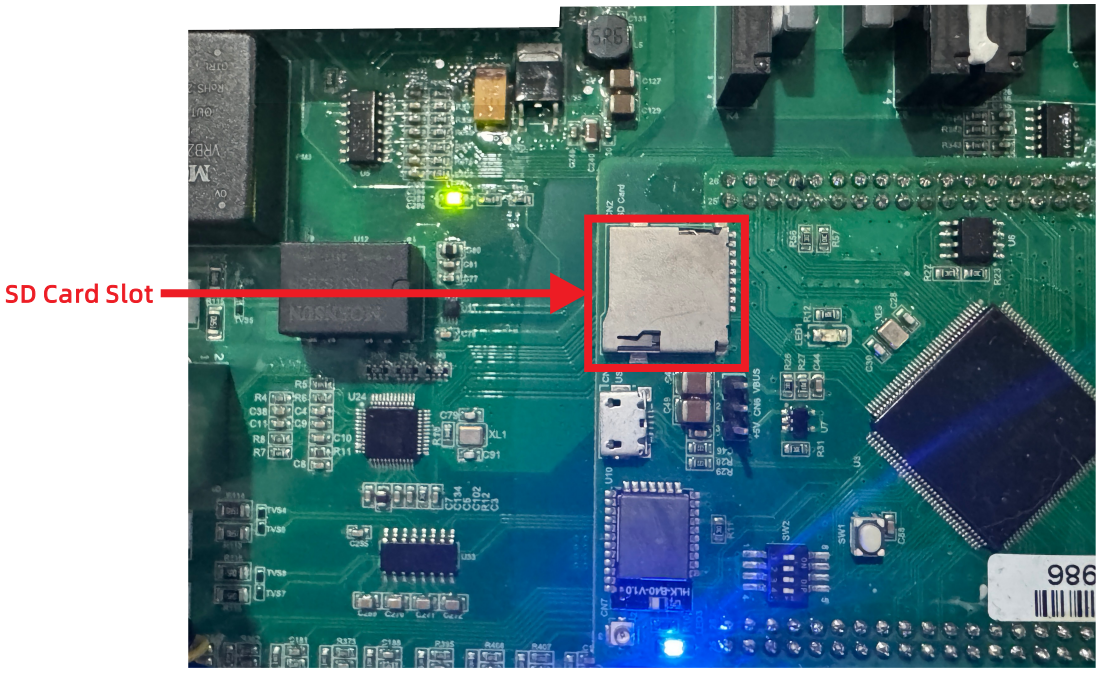
1. Prepare the SD Card and the upgrade file.

(1)Prepare an empty SD card(FAT32 format, unit size:4096, maximum 8GB).

(2)Put Firmware in the folder.



2. Turn off the power and insert the SD Card into the SD Card slot of the motherboard.



3. Turn on the power and wait for the charging pile to read the SD Card to upgrade, wait 30 seconds to hear the buzzer sound that the upgrade is complete.