

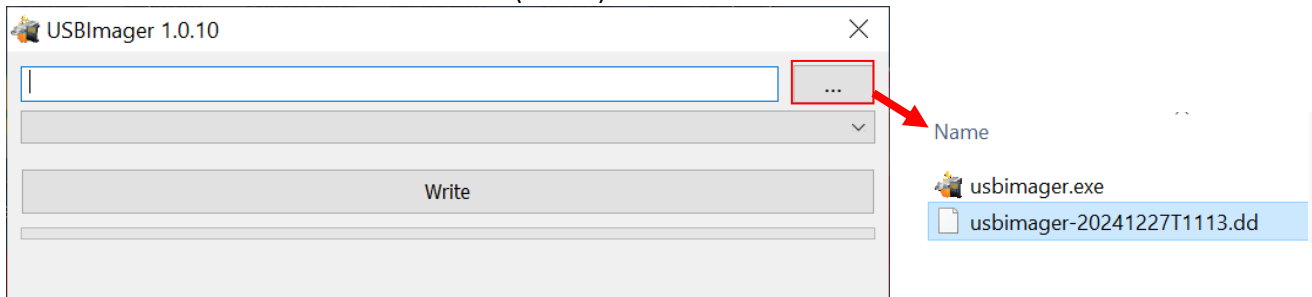


iMate KStar IMG Reload/Upgrade

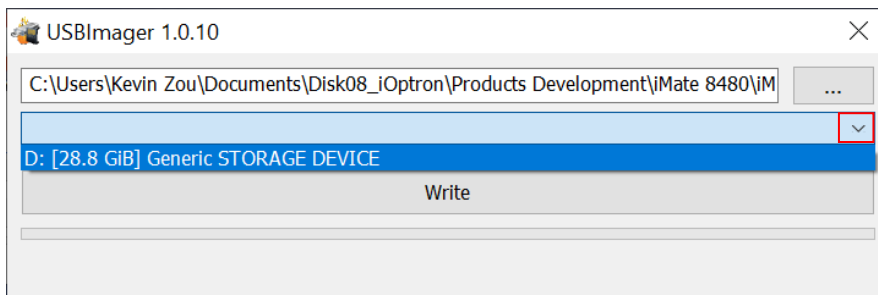
1. Download the upgrade package, which include
2. Prepare a 32GB microSD card (proceed with caution!)
 - a. Insert a microSD card into a USB card reader
 - b. Insert the card reader into a PC USB port
 - c. Format the card into NTFS format
3. Copy the IMG file into the microSD card
 - a. Run **usbimager.exe**

Name	Date modified	Type	Size
 usbimager.exe	12/5/2023 10:09 AM	Application	346 KB
 usbimager-20241227T1113.dd	1/8/2025 2:31 PM	DD File	30,727,168 KB

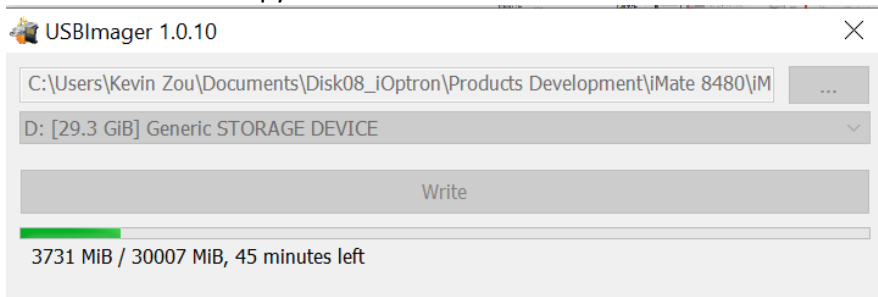
- b. Click on 3 dot button to select the IMG file (.ddfile)



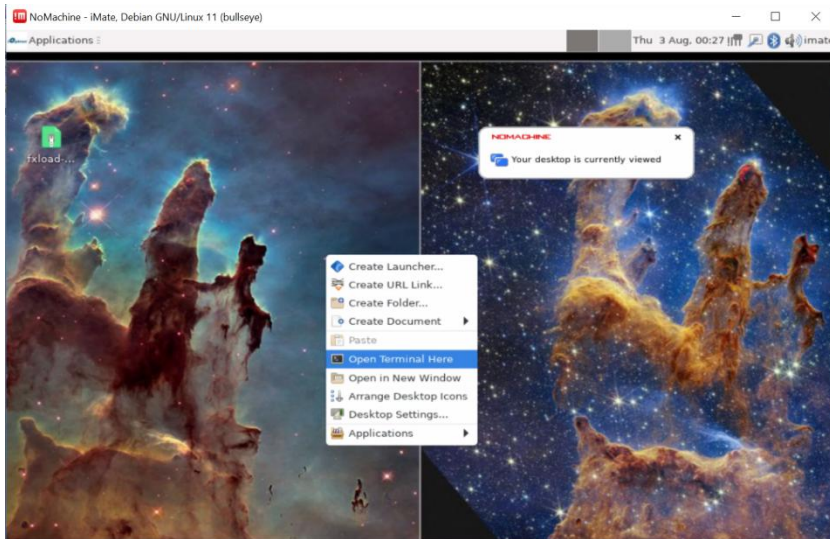
- c. From the pull-down menu to choose the target microSD card drive



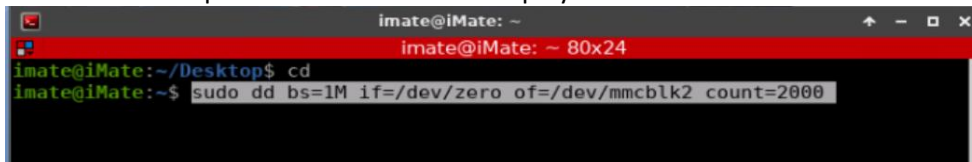
- d. Click Write to start copy the IMG file



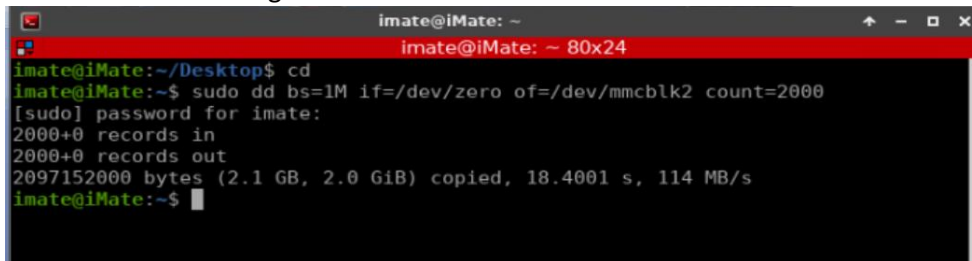
4. Erase current file system
 - a. Power on the iMate by plug in the DC plug
 - b. Connect the PC to iMate WIFI network. The password is 12345678
 - c. Open NoMachine.
 - d. Click on iMate, use **imate** as both Username and Password
 - e. Bring up the Terminal by right clicking the mouse, and click on **Open Terminal Here**



- f. Erase current system by typing the following commands on screen:
 cd
 sudo dd bs=1M if=/dev/zero of=/dev/mmcblk2 count=2000
 Enter "imate" as password. It will not be displayed on the screen!



Wait until the following screen shown.



- g. After system erased, unplug the power
 h. Close NoMachine

5. Write a new file system (if the PC lost WIFI connection to the iMate, just reconnect it.)
- Insert microSD card into the iMATE TF slot
 - Power on the imate again
 - Reconnect the computer to iMATE WiFi network. The SSID may be different.
 - Reconnect the iMATE to NoMachine
 - Open Terminal
 - Type in the following commands:
 cd
 ls
 ./imatemodAP.sh
 Enter "imate" as password

```
imate@iMate: ~
imate@iMate: ~/Desktop$ cd
imate@iMate:~$ ls
Desktop      Downloads      imatesettime.sh  Music      Templates
Documents    imatemodAP.sh  imate_write_EMMC.sh  Pictures    Videos
dotnet       imatepowerbox.sh  ipolar           Public
imate@iMate:~$ ./imatemodAP.sh
iOptron Get wifi Mac add
[sudo] password for imate:
iOptron Done...
imate@iMate:~$
```

Then type in: `./imate_write_EMMC.sh`

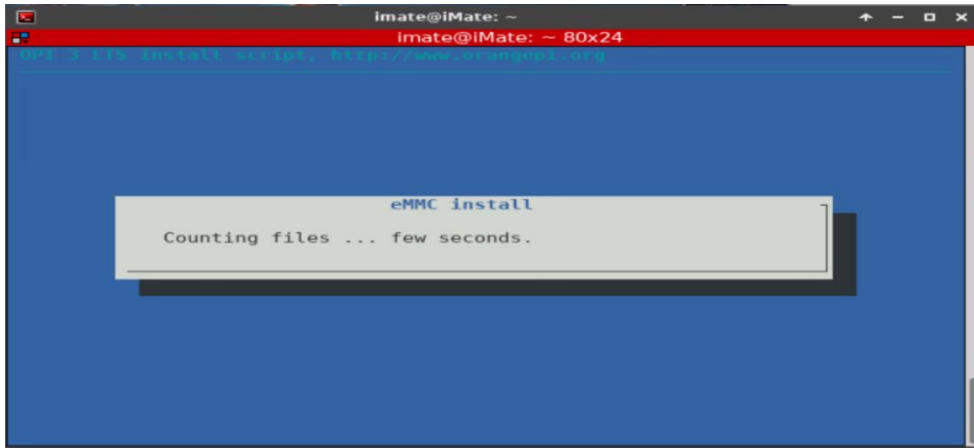
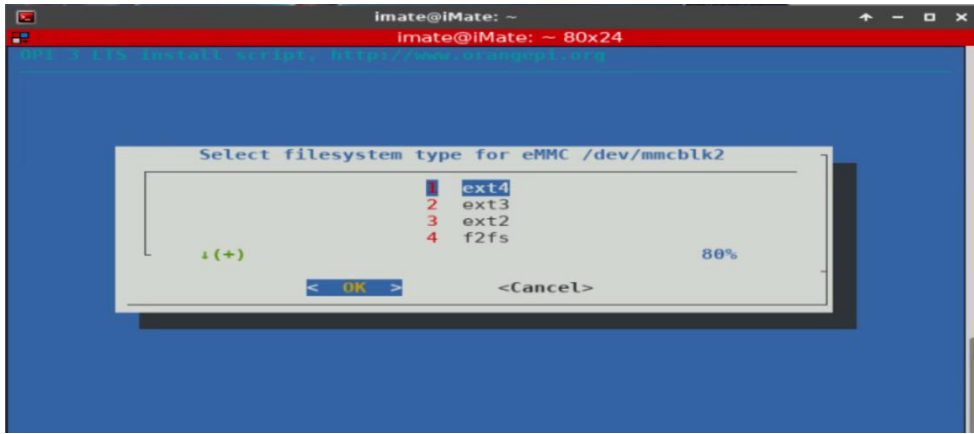
```
imate@iMate: ~
imate@iMate: ~/Desktop$ cd
imate@iMate:~$ ls
Desktop      Downloads      imatesettime.sh  Music      Templates
Documents    imatemodAP.sh  imate_write_EMMC.sh  Pictures    Videos
dotnet       imatepowerbox.sh  ipolar           Public
imate@iMate:~$ ./imatemodAP.sh
iOptron Get wifi Mac add
[sudo] password for imate:
iOptron Done...
imate@iMate:~$ ./imate_write_EMMC.sh
```

The iMate will start transferring the file. Press ENTER to continue when the below screen shown.

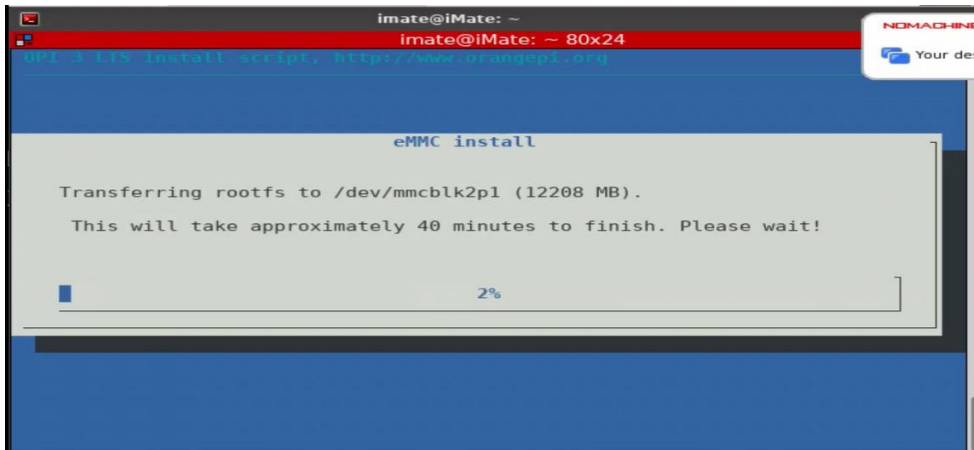
```
imate@iMate: ~
imate@iMate: ~ 80x24
http://www.dreamapl.org
Choose an option:
Current root: UUID=5ce619d5-0a9b-4295-8436-014d19a33fb6
  1 Boot from eMMC - system on eMMC
  5 Install/Update the bootloader on SD/eMMC
  < OK > <Cancel>
```

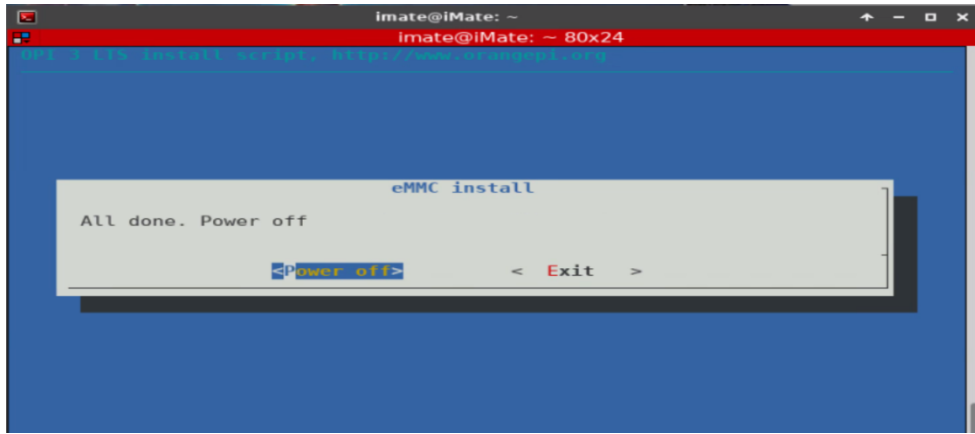
```
imate@iMate: ~
imate@iMate: ~ 80x24
http://www.dreamapl.org
eMMC install
m  m  mm  mmmm  mm  m mmmm  mm  m  mmm
#  #  #  ##  #  "#  #m  #  #  #m  #  m"  "
"  "#  #  #  #m  #  #  #m  #  #  #m  #  #  mm
##  ##"  #mm#  #  "m  #  #  #  #  #  #  #
#  #  #  #  #  "  #  ##  mm#mm  #  ##  "mmm"

This script will erase your eMMC. Continue?
  < Yes > < No >
```



It will start writing the file system





g. Click Enter to power off the iMate

6. Restart iMate

- a. Unplug the iMate power
- b. Remove microSD card
- c. Plug in the power to power on the iMate
- d. Reconnect the PC to iMate (now it has a different WIFI SSID)
- e. Run NoMachine
- f. Check the iMate and KStar

7. Troubleshoot

- a. Make sure the iMate is power cycled after Firmware Erasing step
- b. If the NoMachine lost iMate connection during eMMC writing process, do not close the NoMachine window. Just reconnect the iMate WIFI to the computer and the process will resume.