The system version of the core board of the Jetson Nano should correspond to the system version of the U disk.
For example, if the U disk has been written with V4.5.1, then the system version of the Jetson Nano core board must also be V4.5.1, otherwise the board cannot be booted by USB.

Tip:
1) The process of USB booting: First, start the system in the core module, and then boot the system on the U disk by the system on the core module.
2) The system in the core board needs to use SDKManger to write, and the system in the U disk needs to use Win32DiskImager to write to the system.

1. Start Jetson Nano to enter system.
2. Open a terminal and input the following command to backup extlinux.conf.

cd /boot/extlinux/
sudo cp extlinux.conf extlinux.conf.boot_emmc_backup
ls

```
jetson@jetson-desktop:~$ cd /boot/extlinux/
jetson@jetson-desktop:/boot/extlinux$ sudo cp extlinux.conf extlinux.conf.boot_emmc_backup
jetson@jetson-desktop:/boot/extlinux$ ls
extlinux.conf  extlinux.conf.boot_emmc_backup  extlinux.conf.nv-update-extlinux-backup
jetson@jetson-desktop:/boot/extlinux$
```

3. Input the following command to open and modify extlinux.conf file

sudo vim extlinux.conf

```
jetson@jetson-desktop:/boot/extlinux$ sudo vim extlinux.conf
jetson@jetson-desktop:/boot/extlinux$
```

Press i key to enter edit mode, find root=/dev/mmcblk0p1 under the column of LABEL primary, and modify it to root=/dev/sda1

```
TIMEOUT 30
DEFAULT primary

MENU TITLE L4T boot options

LABEL primary
      MENU LABEL primary kernel
      LINUX /boot/Image
      INITRD /boot/initrd
      APPEND ${cbootargs} quiet root=/dev/sda1 rw rootwait rootfstype=
ext4 console=ttyS0,115200n8 console=tty0 fbcon=map:0 net.ifnames=0 sdh
ci_tegra.en_boot_part_access=1
```

4. Exit and save.
Press “ESC” to exit edit mode, then enter :wq and press Enter to save and exit.
5. Insert the U disk and restart the Jetson Nano, it will automatically boot from the U disk.
When we use the Jetson NANO at the next time, we have to plug in the USB flash drive so that it can boot normally.