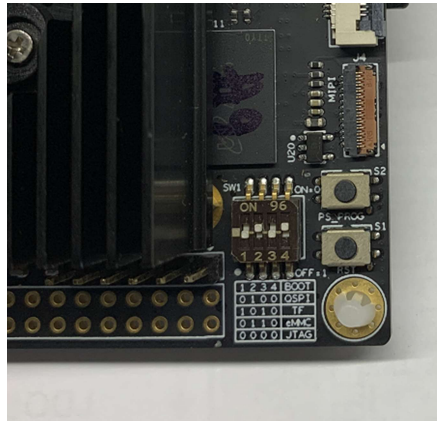
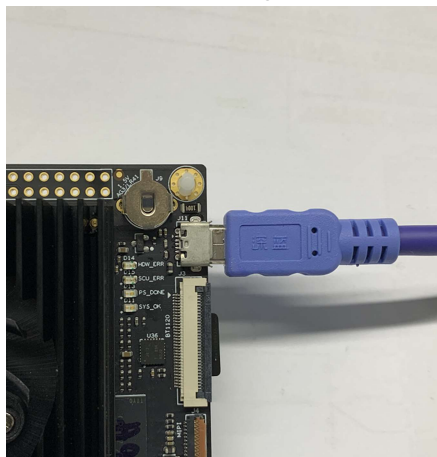


1. Set the SW1 dip switch and set the boot mode to TF start mode (1010). (Note that ON=0 and OFF=1 corresponding to the table)

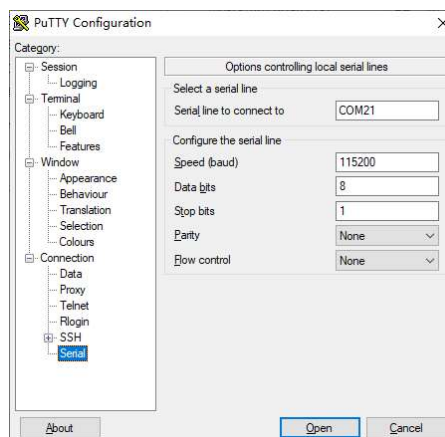


2, Insert the TF card and MicroUSB cable for booting.

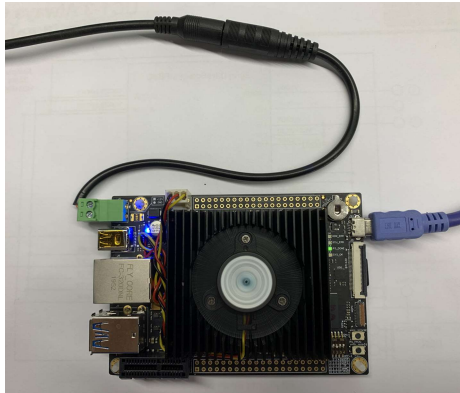


3, Install the USB serial port driver on the PC, the chip model is CP2102N, download link: <https://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers>

4, Open the serial port terminal software on the PC, find the corresponding serial port number, set the baud rate to 115200, 8 bits, no hardware flow control, and open the terminal software window.



5, Connect the power, and the terminal will print related startup information after power-on. After the startup is complete, enter the user name **root** and the password **root** (the linux system password for QSPI startup mode is empty), we will be able to control the development board through the terminal. For detailed information, please refer to other files in the data package.



```
COM21 - PuTTY
[ 5.681128] cfg80211: Loaded X.509 cert 'sforshee: 00b28ddf47aef9cea'
[ 5.693255] ALSA device list:
[ 5.696214]   #0: DisplayPort monitor
[ 5.700111] platform regulatory.0: Direct firmware load for regulatory.db failed with error -2
[ 5.708719] cfg80211: failed to load regulatory.db
[ 5.713588] RAMDISK: gzip image found at block 0
[ 5.836700] usb 1-1: New USB device found, idVendor=05e3, idProduct=0610, bcdDevice=60.60
[ 5.844888] usb 1-1: New USB device strings: Mfr=0, Product=1, SerialNumber=0
[ 5.852025] usb 1-1: Product: USB2.0 Hub
[ 5.904386] hub 1-1:1.0: USB hub found
[ 5.908422] hub 1-1:1.0: 4 ports detected
[ 6.000805] EXT4-fs (ram0): mounted filesystem without journal. Opts: (null)
[ 6.007882] VFS: Mounted root (ext4 filesystem) on device 1:0.
[ 6.013789] devtmpfs: mounted
[ 6.016916] Freeing unused kernel memory: 832K
[ 6.035490] Run /sbin/init as init process
[ 6.046635] EXT4-fs (ram0): re-mounted. Opts: block_validity,delalloc,barrier,user_xattr,acl
Starting logging: OK
Starting mdadm:
[ 6.256059] FAT-fs (mmcblk1p1): Volume was not properly unmounted. Some data may be corrupt. Please run fsck.
Initializing random number generator... [ 6.299789] random: dd: uninitialized urandom read (512 bytes read) done.
Starting network: OK

Welcome to myir board
myir login: [ 6.507407] [drm] Cannot find any crtc or sizes

Welcome to myir board
myir login:
Welcome to myir board
myir login: root
[myir@myir ~]$
```

6, The connection between the development board and the emulator (downloader) is shown in the figure. The JTAG signal definition corresponding to the relevant pins is marked on the back of the PCB at J13.

