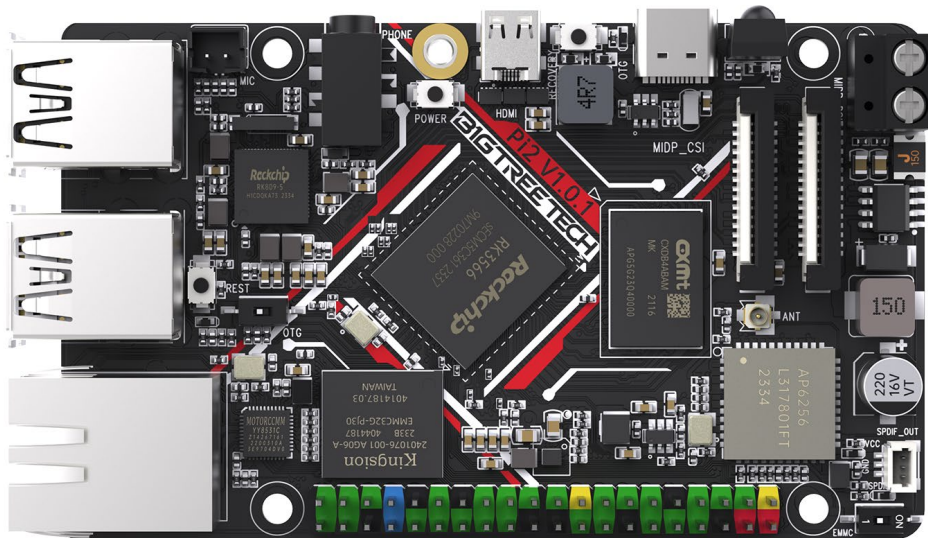


BIGTREE TECH

Pi2

User Manual



Revision Log

Version	Date	Revisions
v1.00	16th November 2023	Initial Version

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Product Profile

BIGTREETECH Pi2 uses the higher performance quad-core A55-RK3566 chipset, has rich interface functions, built-in EMMC5.1, onboard support for 2.4G/5G dual-mode, WIFI transmission speeds up to 433.3Mbps, also supports Bluetooth BT5.2 version. It has the same mounting hole positions as the Raspberry Pi, making installation and use convenient and quick.

Features Highlights

- CPU: Rockchip RK3566, quad-core Cortex-A55 @1.8GHz
- GPU: Mali-G52 EE
- NPU: 0.8 TOPS NPU
- RAM: 2GB LPDDR4 (other customizable options: 1GB/2GB/4GB/8GB)
- Onboard EMMC 32GB (other customizable options: 8GB/32GB/64GB/128GB...)
- MIPI DSI display support (320P-1080P 60Hz)
- SPI Flash 256M (other customizable options: W25Q256JWEIQ)
- Dual-lane MIPI CSI-2 Camera Interface (320P-1080P 60Hz)
- 3 x USB 2.0 ports, 1 x USB 3.0 port (USB 2.0 60Mb/s, USB 3.0 600Mb/s)
- PCIe 2.1 1x1 Lane (Supports M.2 2242 4PIN+5PIN)
- MicroSD card slot (SDIO2.0)
- Networking: Gigabit Ethernet, 433Mbps WiFi, BT 5.2
- Gigabit Ethernet, 100Mbps WiFi , Bluetooth 5.0
- Audio: 3.5mm jack supports mic input
- Capacitive mic input
- 40-pin GPIO header
- HDMI 2.0 OUT (480P-4K 60Hz)
- Onboard infrared receiver (38kHz)
- Same mounting hole positions as Raspberry Pi
- 24V DC power input

Specifications

Dimensions: 93.8mm x 56mm

Installation Hole Spacing: 64mm x 49.4mm

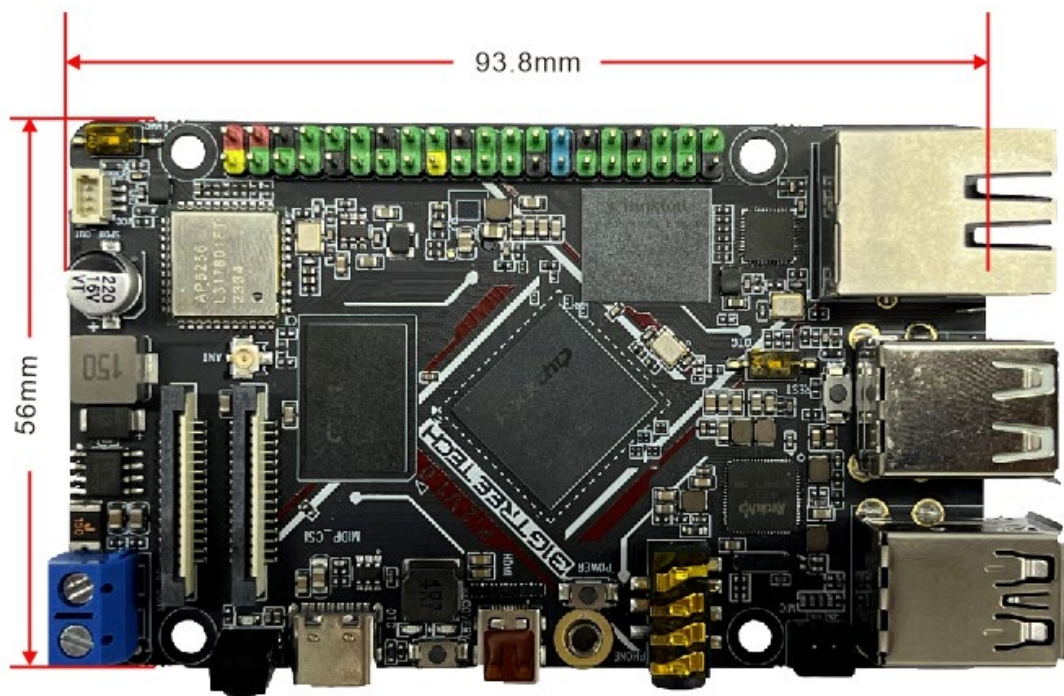
USB-C Input: DC 5V \pm 5%/2A

Output Voltage: 3.3V \pm 2%/100mA

Onboard WiFi: 2.4G/5G, 802.11 b/g/n wireless standards

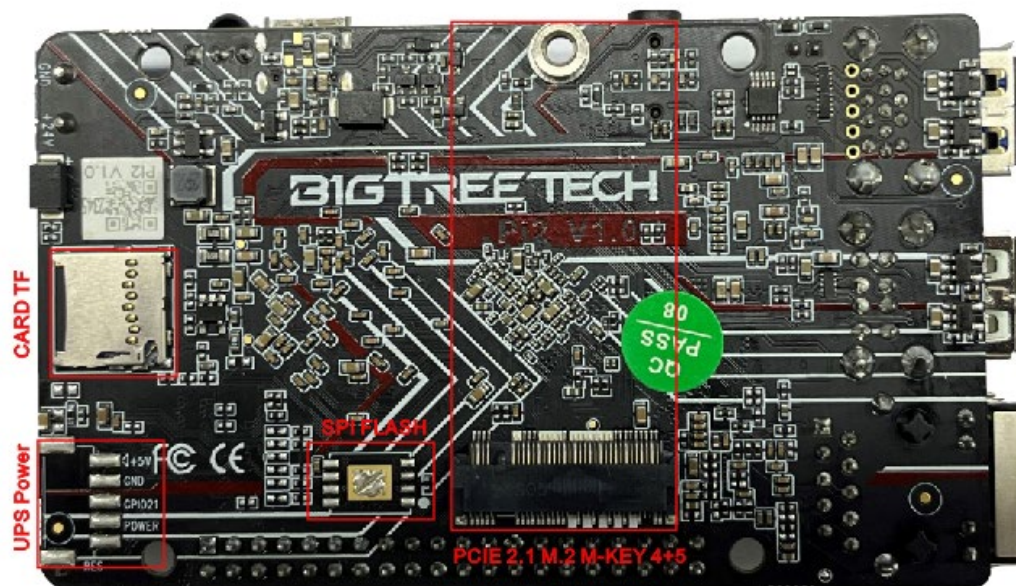
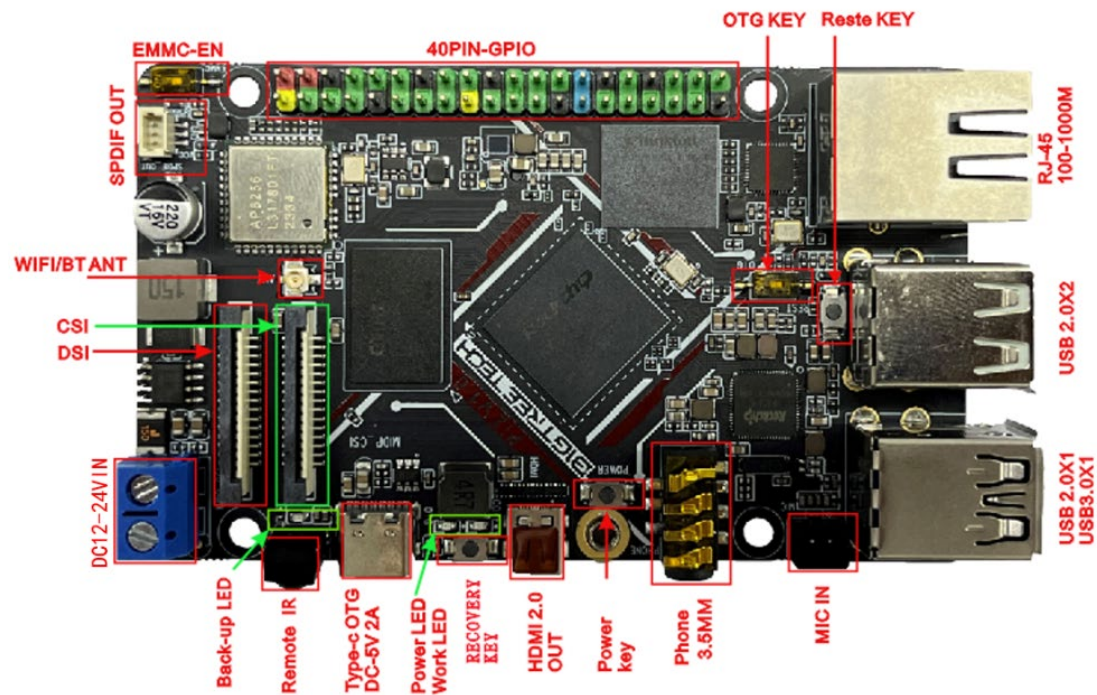
Onboard Bluetooth: 5.2

Dimensions



Peripheral Interface

Interface Diagram

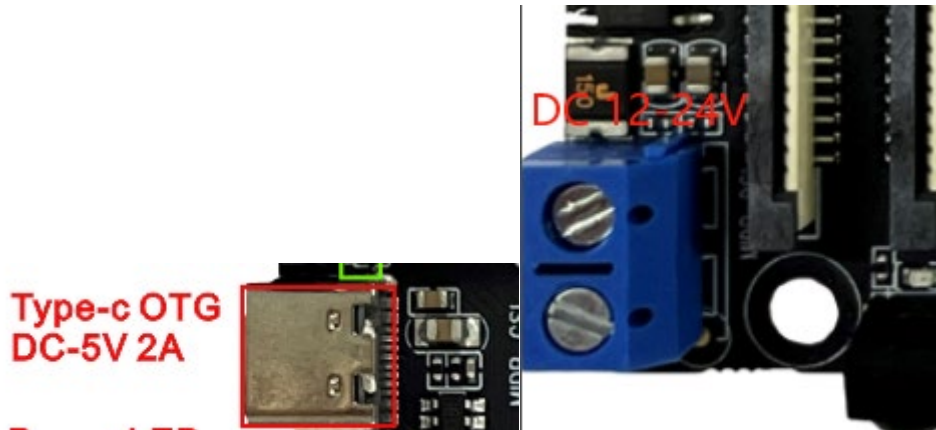


Interface Introduction

Power Supply

Input:

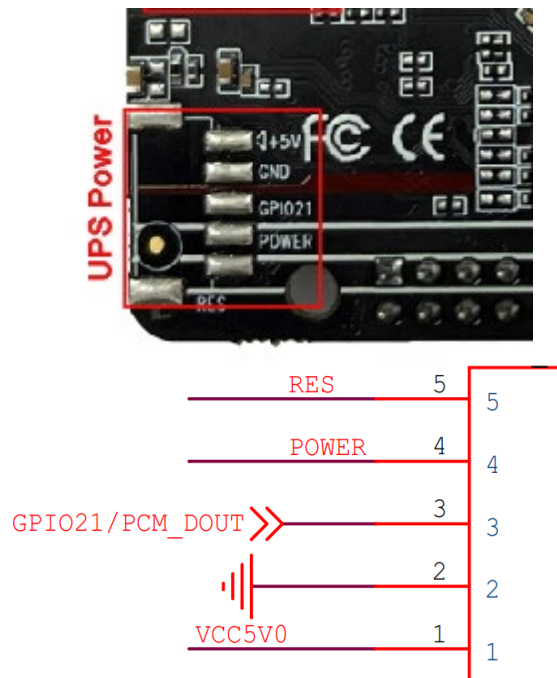
- UBS-C: DC 5V 2A
- Terminal Block: DC 12-24 V



40 pin GPIO

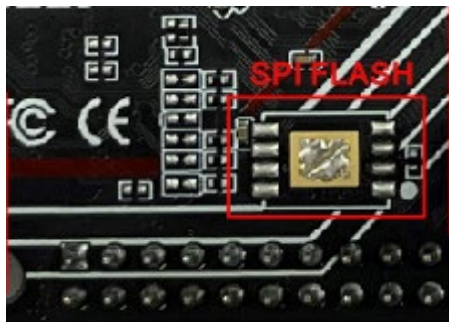
40Pin-GPIO										
BTT Pi	CB1-eMMC	CB1	PI2/CB2	CM4		CM4	PI2/CB2	CB1	CB1-eMMC	BTT Pi
3.3V	3.3V	3.3V	3.3V	3.3V		5V	5V	5V	5V	5V
PC3	NC	NC	GPIO4_B2	GPIO 2 (I2C1 SDA)		5V	5V	5V	5V	5V
PC0	NC	NC	GPIO4_B3	GPIO 3 (I2C1 SCL)		GND	GND	GND	GND	GND
PC7	PI14	PC7	GPIO3_A1	GPIO 4 (GPCLK0)		GPIO 14 (UART TX)	GPIO0_D1	TX	TX	TX
GND	GND	GND	GND	GND		GPIO 15 (UART RX)	GPIO0_D0	RX	RX	RX
PC14	PI15	PC14	GPIO0_C7	GPIO 17		GPIO 18 (PCM CLK)	GPIO0_B0	PC13	PI7	PC13
PC12	PI6	PC12	GPIO1_A0	GPIO 27		GND	GND	GND	GND	GND
PC10	PI4	PC10	GPIO1_A1	GPIO 22		GPIO 23	GPIO4_C6	PC11	PI5	PC11
3.3V	3.3V	3.3V	3.3V	3.3V		GPIO 24	GPIO4_A3	PC9	PI3	PC9
PH7	PH7	PH7	GPIO3_C1	GPIO 10 (SPI0 MOSI)		GND	GND	GND	GND	GND
PH8	PH8	PH8	GPIO3_C2	GPIO 9 (SPI0 MISO)		GPIO 25	GPIO0_C4	NC	NC	PG13
PH6	PH6	PH6	GPIO3_C3	GPIO 11 (SPI0 SCLK)		GPIO 8 (SPI0 CE0)	GPIO4_A2	NC	NC	PG12
GND	GND	GND	GND	GND		GPIO 7 (SPI0 CE1)	GPIO0_A6	PG8	PI11	PI9
PC2	NC	NC	GPIO0_B4	GPIO 0 (EEPROM SDA)		GPIO 1 (EEPROM SCL)	GPIO0_B3	PG7	PI10	PI10
PC4	NC	NC	GPIO3_D6	GPIO 5		GND	GND	GND	GND	GND
PI5	PI9	PG6	GPIO3_D7	GPIO 6		GPIO 12 (PWM0)	GPIO0_C1	PG9	PI12	PI6
PI14	NC	NC	GPIO0_C0	GPIO 13 (PWM1)		GND	GND	GND	GND	GND
PC6	PI1	PC6	GPIO4_C5	GPIO 19 (PCM FS)		GPIO 16	GPIO0_A0	NC	NC	PG11
PC15	PI13	PC15	GPIO0_C3	GPIO 26		GPIO 20 (PCM DIN)	GPIO4_C3	PH10	PH10	PH4
GND	GND	GND	GND	GND		GPIO 21 (PCM DOUT)	GPIO4_C2	PC8	PI2	PC8

UPS POWER



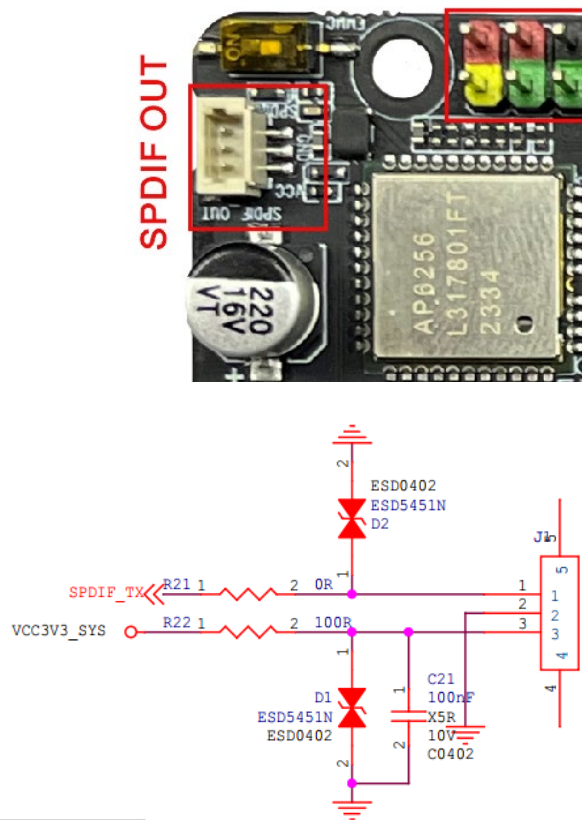
The specification is HX5P-2.54MM horizontal type, it needs to be used with our company's emergency power supply board.

SPI FLASH



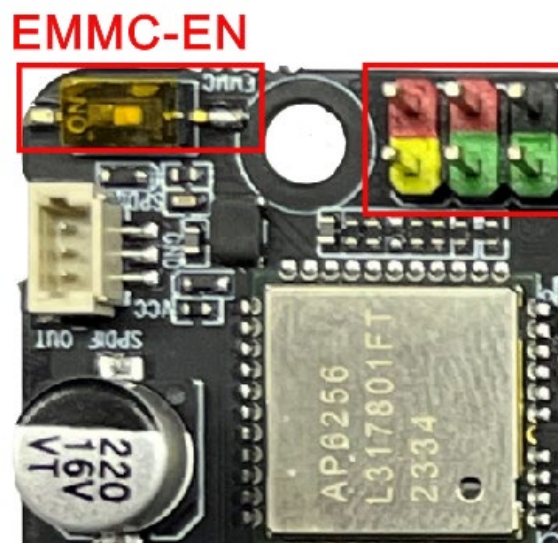
Model: W25Q256JWEIQ

SPDIF OUT



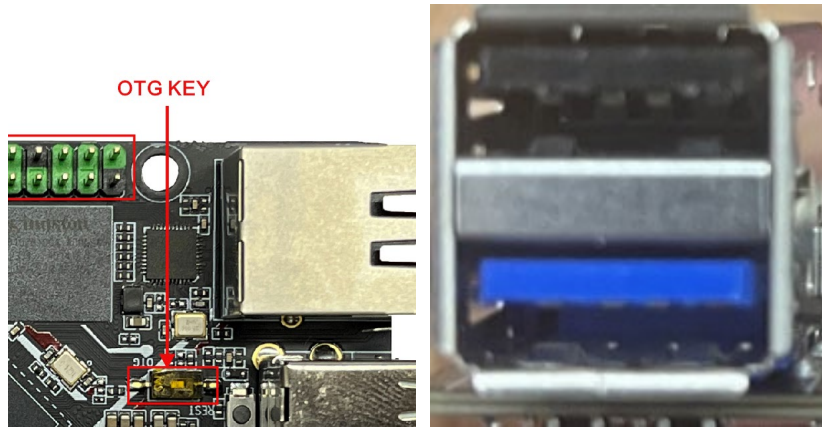
EMMC-EN

The EMMC can be used normally by default. To disable EMMC boot, switch the EMMC-EN switch to the NO position to forcibly disable EMMC startup.

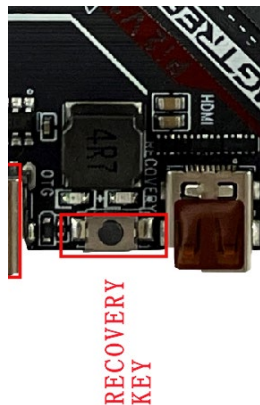


OTG

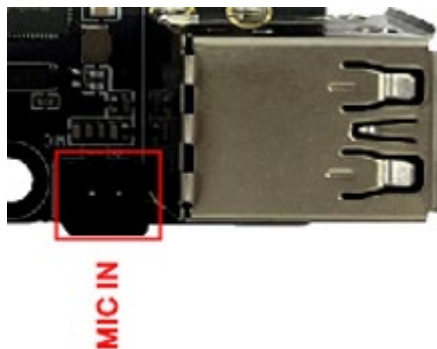
For OTG mode, switch the OTG KEY switch to the NO position. (Note: EMMC-EN cannot be switched to NO, or the black USB 2.0 ports will not work properly).

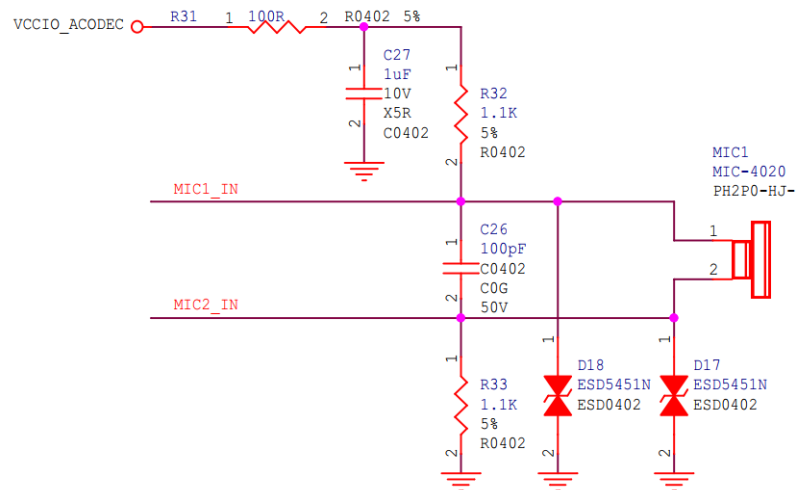


1. Enter **maskrom mode** using Type-C.
2. For RECOVERY mode, long press the RECOVERY KEY button, then insert the Type-C cable to enter **Loader mode**.

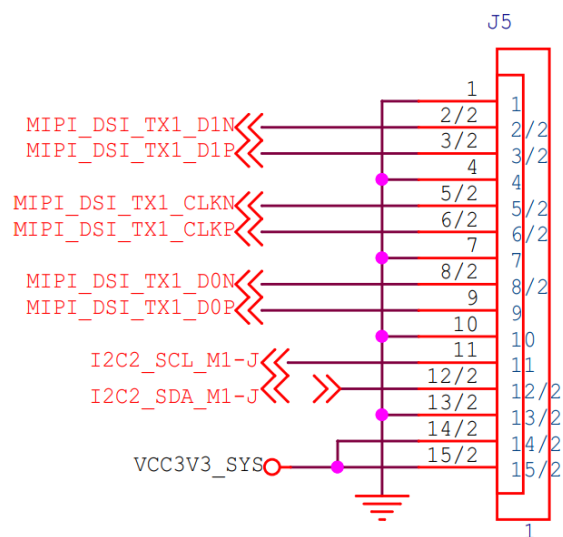
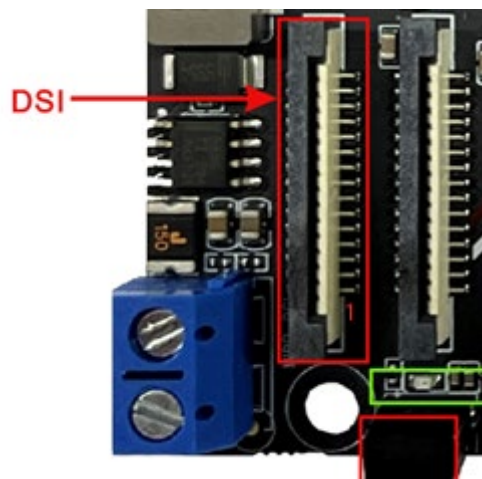


MIC IN

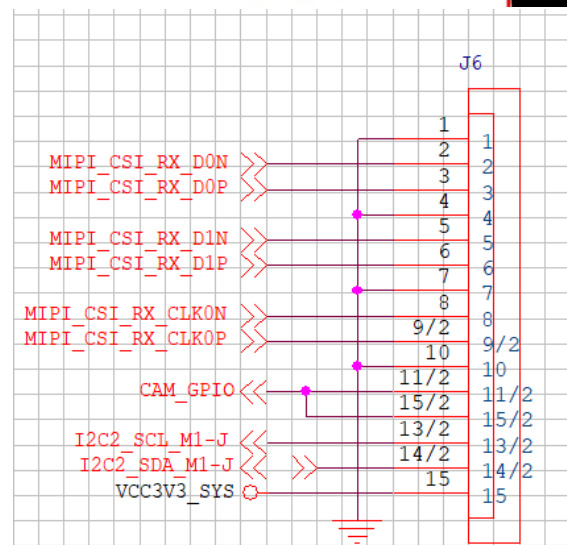
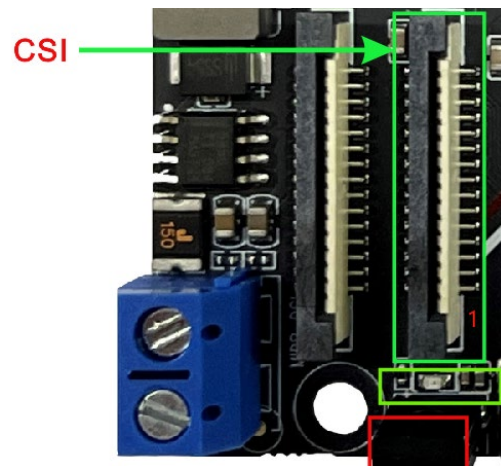




DSI



CSI



Flashing the System

Download the System Image

Only use the image we provide: <https://github.com/bigtreotech/CB2/releases>

Download and Install the Writing Software

Download and install either:

Official Raspberry Pi Imager: <https://www.raspberrypi.com/software/>

balenaEtcher: <https://www.balena.io/etcher/>

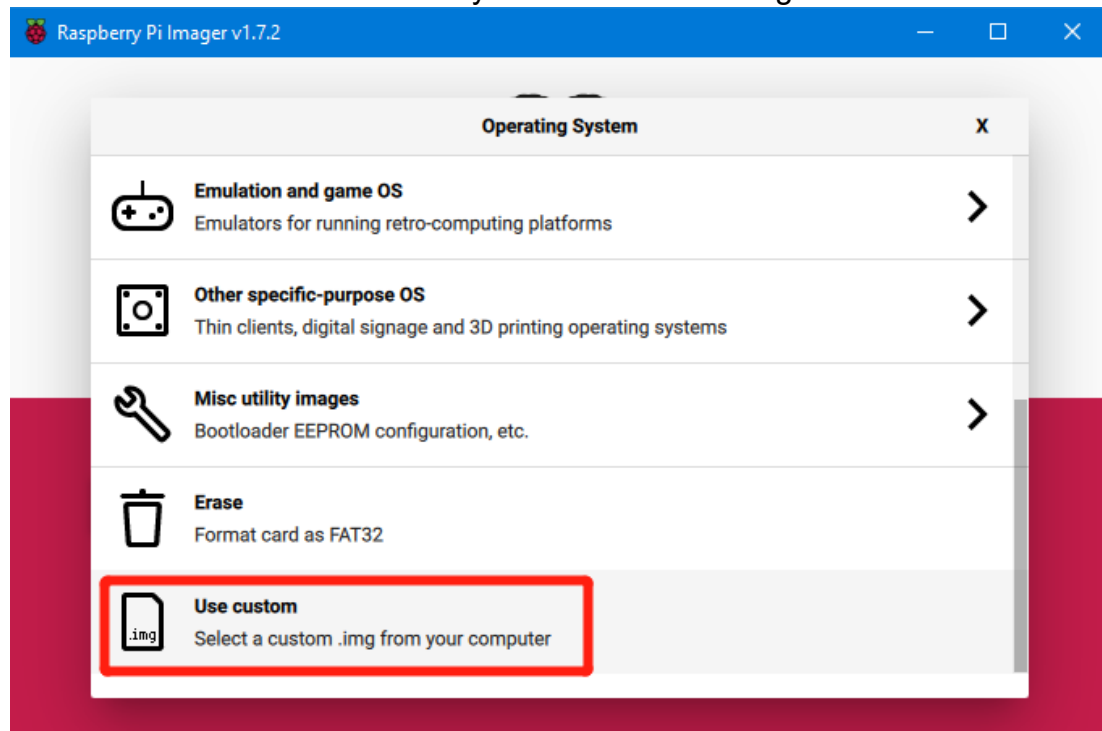
Flash the System

Using Raspberry Pi Imager

1. Insert the microSD card into your computer via a card reader.
2. Select "Choose OS".



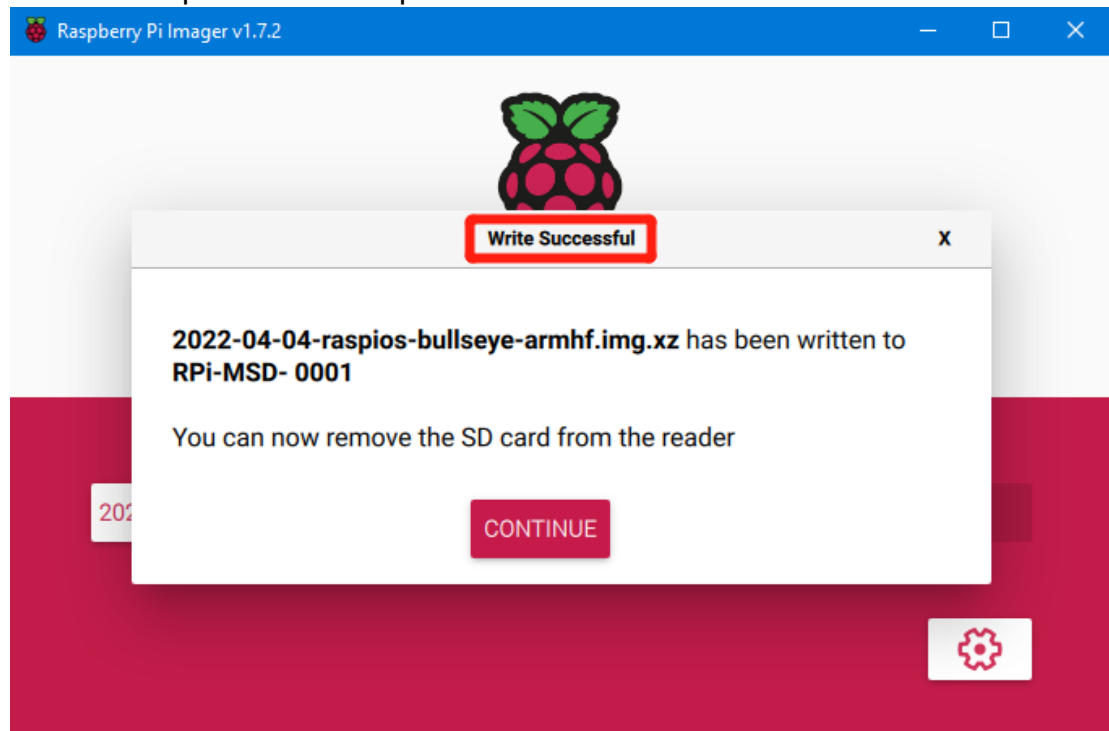
3. Select "Use Custom" and select your downloaded image.



4. Select the microSD card and click "WRITE" (WRITE the image will format the microSD card. Be careful not to select the wrong storage device, otherwise the data will be formatted).

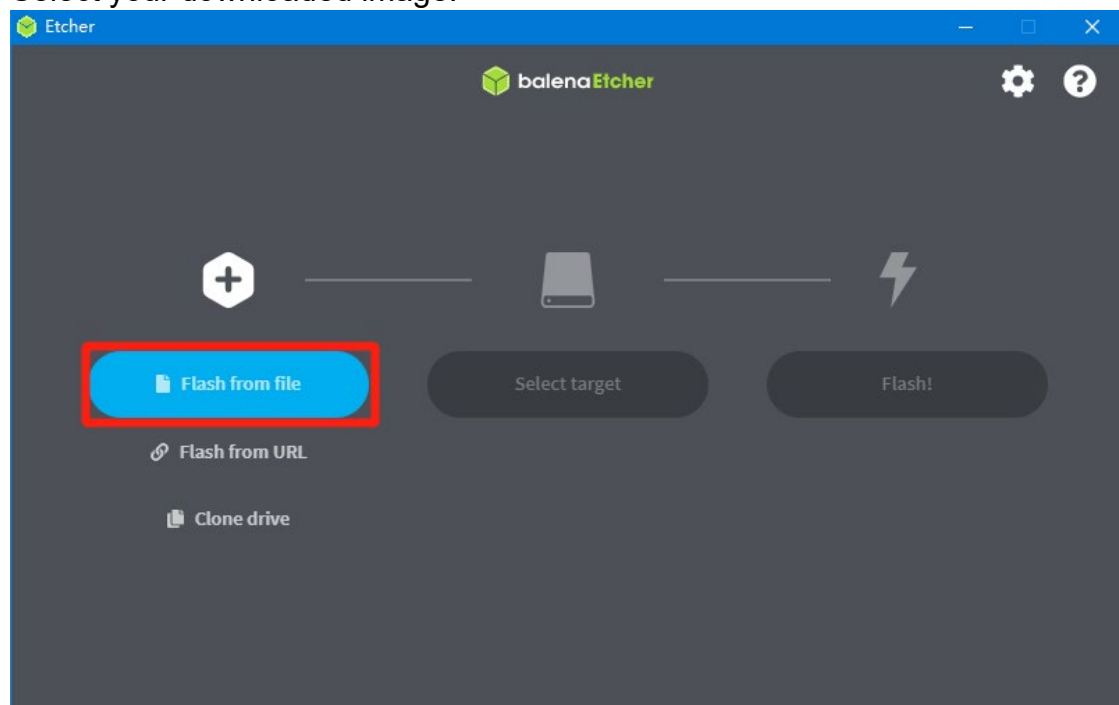


5. Wait for the process to complete.



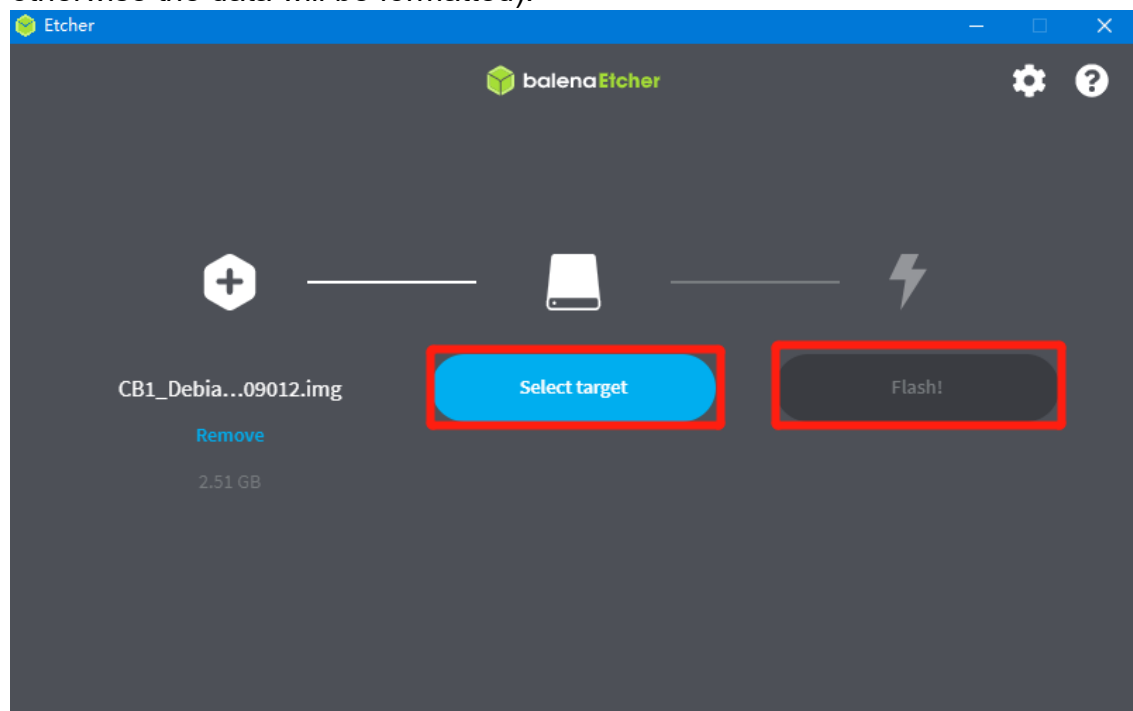
Using balenaEtcher

1. Insert the microSD card via a reader.
2. Select your downloaded image.

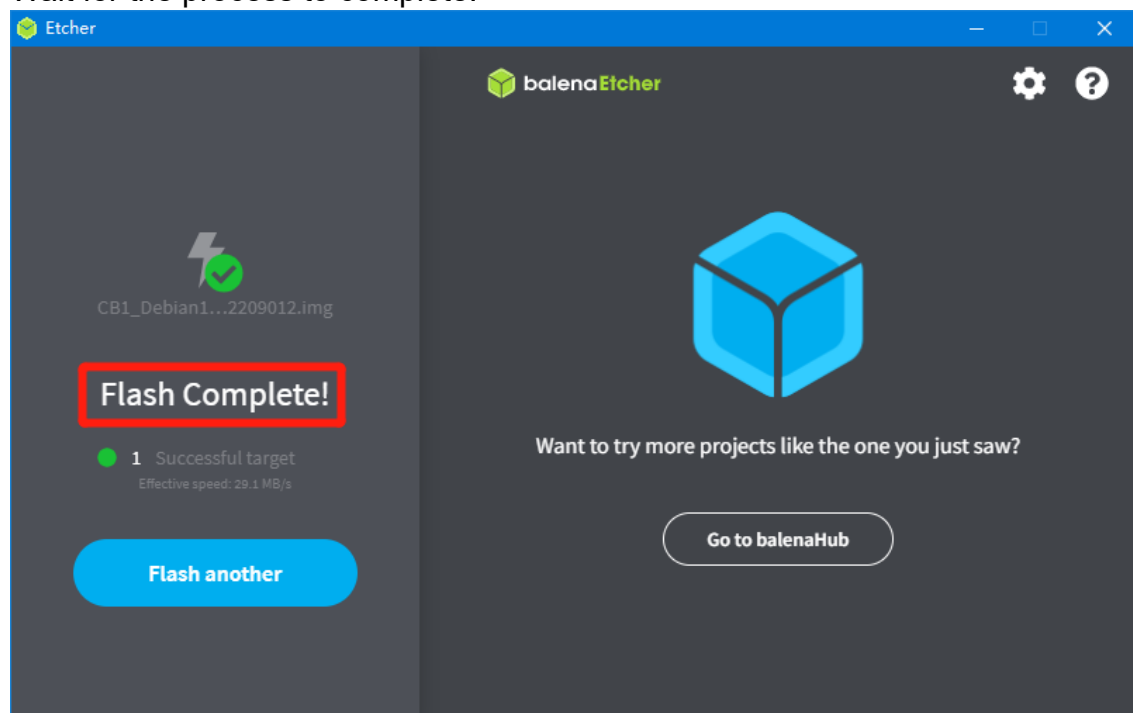


3. Select the microSD card and click "WRITE" (WRITE the image will format the microSD card. Be careful not to select the wrong storage device,

otherwise the data will be formatted).



4. Wait for the process to complete.

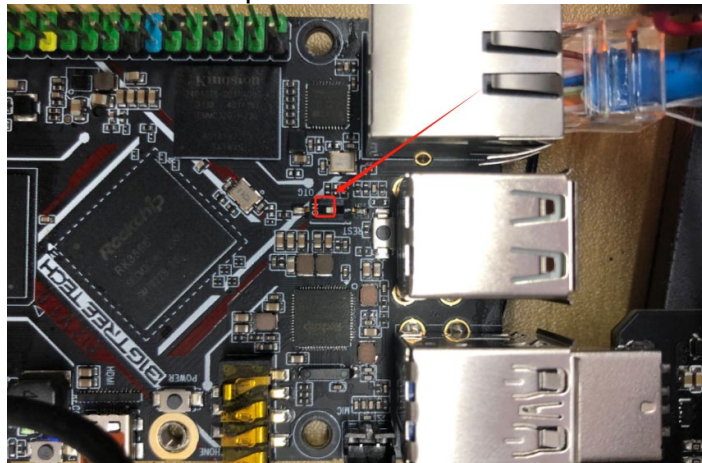


Using RKDevTool to Flash the eMMC

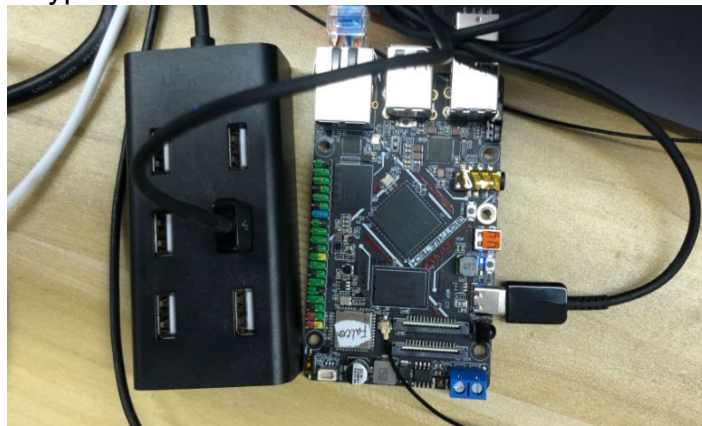
1. Install the driver as shown.

名称	修改日期	类型	大小
ADBDriver	2020/11/10 14:13	文件夹	
bin	2020/11/10 14:14	文件夹	
Driver	2022/2/28 14:14	文件夹	
Log	2023/7/28 11:23	文件夹	
config.ini	2014/6/3 15:38	配置设置	1 KB
DriverInstall.exe	2022/2/28 14:11	应用程序	491 KB
Readme.txt	2018/1/31 17:44	文本文档	1 KB
revision.log	2022/2/28 14:14	文本文档	1 KB

2. Set DIP switches to ON position as shown.



3. Connect Type-C cable between board and PC as shown.



4. Open RKDevTool, configure it, and write image as shown in steps.

TA (D:) > RK3566 > RKDevTool > RKDevTool_Release

名称	修改日期	类型	大小
px30-config.cfg	2023/4/17 14:51	文本文档	7 KB
readme.txt	2023/4/17 14:51	文本文档	1 KB
revision.txt	2023/4/17 14:51	文本文档	3 KB
rk312x-config.cfg	2023/4/17 14:51	文本文档	6 KB
rk356x-config.cfg	2023/4/17 14:51	文本文档	6 KB
rk1808-config.cfg	2023/4/17 14:51	文本文档	7 KB
rk3036-config.cfg	2023/4/17 14:51	文本文档	7 KB
rk3128-config.cfg	2023/4/17 14:51	文本文档	7 KB
rk3128h-config.cfg	2023/4/17 14:51	文本文档	7 KB
rk3229-config.cfg	2023/4/17 14:51	文本文档	7 KB
rk3288-config.cfg	2023/4/17 14:51	文本文档	7 KB
rk3308-config.cfg	2023/4/17 14:51	文本文档	6 KB
rk3326-config.cfg	2023/4/17 14:51	文本文档	7 KB
rk3328-config.cfg	2023/4/17 14:51	文本文档	7 KB
rk3399-config.cfg	2023/4/17 14:51	文本文档	7 KB
rk3588-config.cfg	2023/4/17 14:51	文本文档	6 KB
RKDevTool.exe	2023/4/17 14:51	应用程序	1,212 KB
RKDevTool_manual_v1.2_cn.pdf	2023/4/17 14:51	WPS PDF 文档	530 KB
RKDevTool_manual_v1.2_en.pdf	2023/4/17 14:51	WPS PDF 文档	448 KB
rv1126_rv1109_tb-config.cfg	2023/4/17 14:51	文本文档	3 KB
rv1126_rv1109-config.cfg	2023/4/17 14:51	文本文档	6 KB
rv1126_rv1109-config-abu.cfg	2023/4/17 14:51	文本文档	7 KB
开发工具使用指南_v1.0.pdf	2023/4/17 14:51	WPS PDF 文档	450 KB

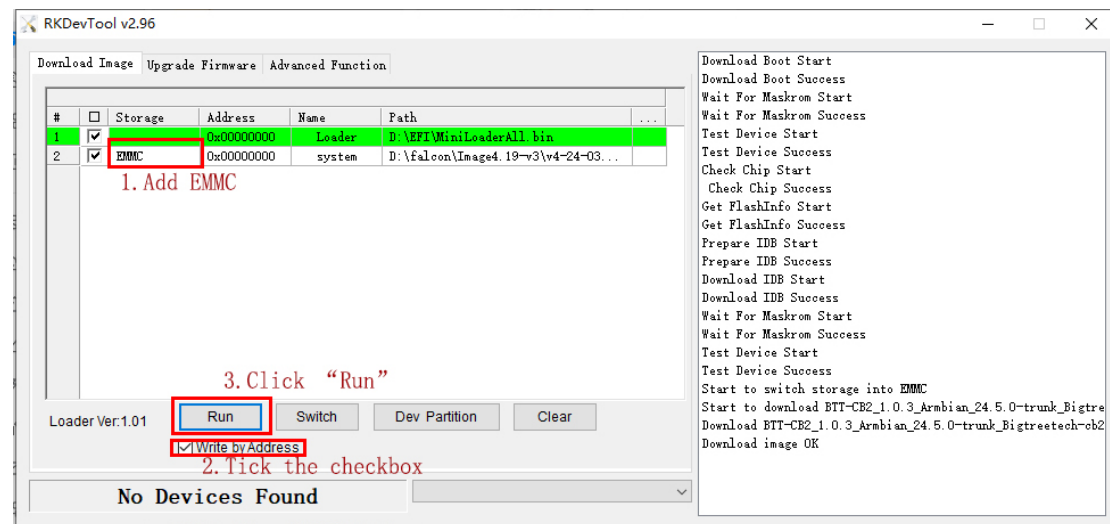
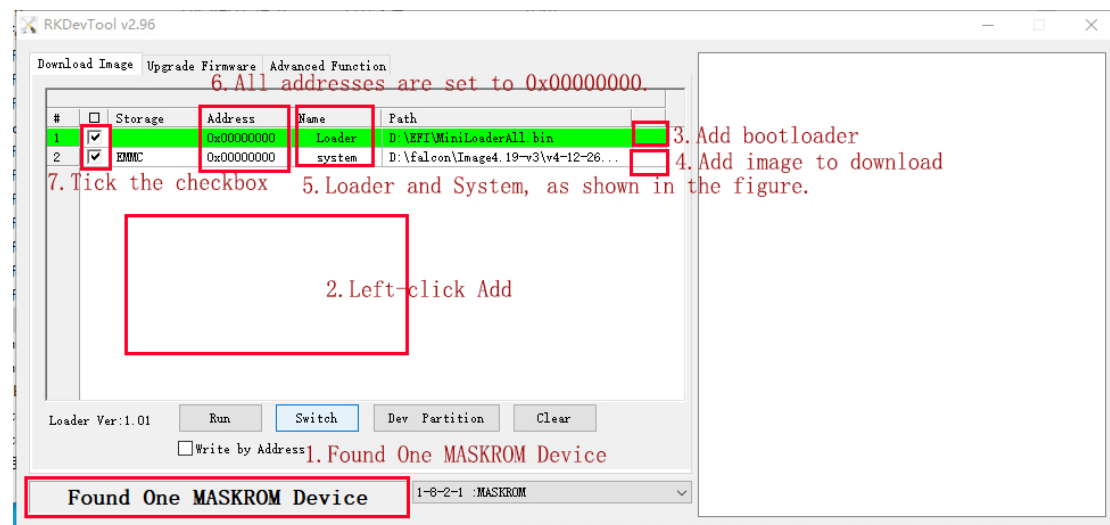
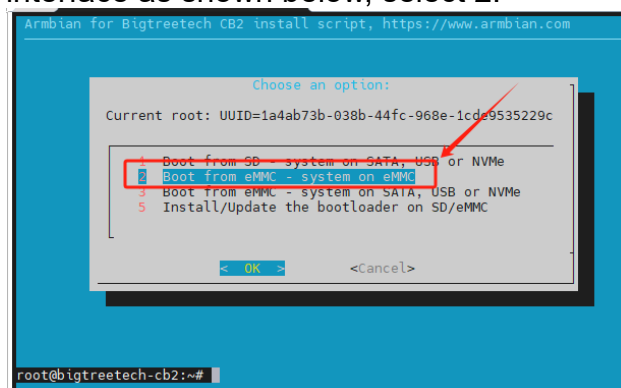
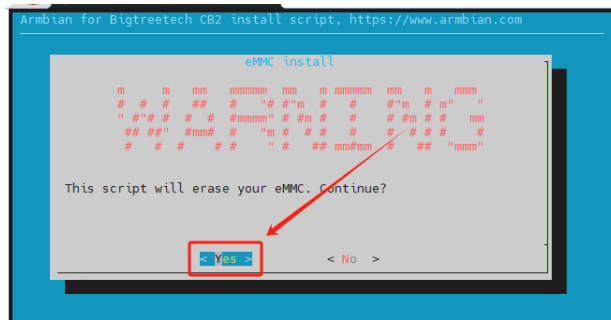


Image Flashing from SD card to eMMC

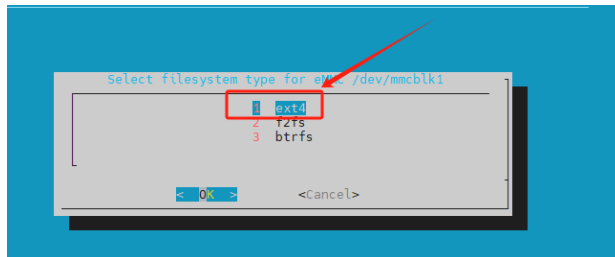
1. Enter the following command: `nand-sata-install` and you will see the interface as shown below, select 2.



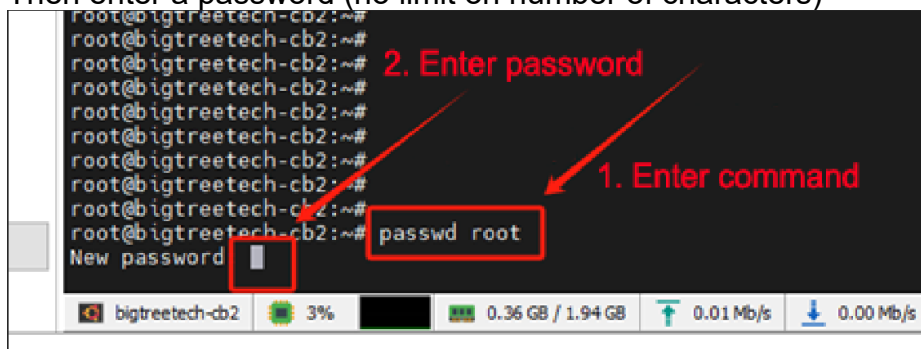
2. After selecting 2, press Enter and the following interface appears, select yes.



3. Press Enter and the following interface appears, select 1, as shown below.



4. Select ok and press Enter to start the flashing from the SD card to the eMMC.
5. After powering on and entering kernel state, the blue LED will be solid on and green LED blinking.
6. Change root password in Terminal as shown.
Enter the command: `passwd root`
Then enter a password (no limit on number of characters)



Configure Network

Ethernet

Ethernet works plug and play without configuration.

Set up WiFi

Edit WiFi name and password in the system.cfg file on the FAT32 partition.

BOOT (J:)			
名称	修改日期	类型	大小
dtb	2022/11/9 2:50	文件夹	
dtb-5.16.17-sun50iw9	2022/11/9 2:50	文件夹	
gcode	2022/11/9 10:35	文件夹	
.next	2022/11/9 2:50	NEXT 文件	0 KB
BoardEnv.txt	2022/11/9 2:53	文本文档	1 KB
boot.bmp	2022/11/9 2:52	BMP 图像	10 KB
boot.cmd	2022/11/9 2:48	Windows 命令脚本	4 KB
boot.scr	2022/11/9 2:53	屏幕保护程序	4 KB
config-5.16.17-sun50iw9	2022/11/9 2:39	17-SUN50IW9 ...	176 KB
Image	2022/11/9 2:39	文件	20,631 KB
initrd.img-5.16.17-sun50iw9	2022/11/9 2:54	17-SUN50IW9 ...	9,171 KB
system.cfg	2022/11/10 17:52	文本文档	1 KB
System.map-5.16.17-sun50iw9	2022/11/9 2:39	17-SUN50IW9 ...	4,239 KB
uInitrd	2022/11/9 2:54	文件	9,171 KB
vmlinuz-5.16.17-sun50iw9	2022/11/9 2:39	17-SUN50IW9 ...	20,631 KB

Open it with Notepad, replace WIFI_SSID with your WiFi name, and replace WIFI_PASSWD with your password.

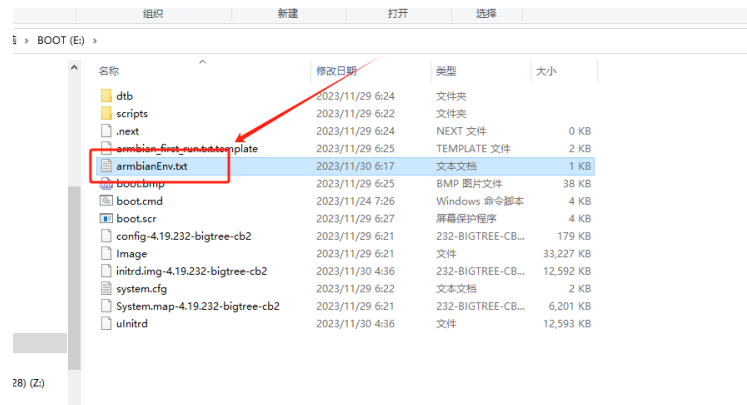
```

system.cfg
J: > system.cfg
1 |-----#
2 |check_interval=5      # Cycle to detect whether wifi is connected, time 5s
3 |router_ip=8.8.8.8    # Reference DNS, used to detect network connections
4 |
5 |eth=eth0             # Ethernet card device number
6 |wlan=wlan0           # Wireless NIC device number
7 |
8 |#####
9 |# wifi name
10|WIFI_SSID="Your SSID"
11|# wifi password
12|WIFI_PASSWD="Your Password"
13|
14|#####
15|WIFI_AP="false"      # Whether to open wifi AP mode, default off
16|WIFI_AP_SSID="rtl8189" # Hotspot name created by wifi AP mode
17|WIFI_AP_PASSWD="12345678" # wifi AP mode to create hotspot connection password

```

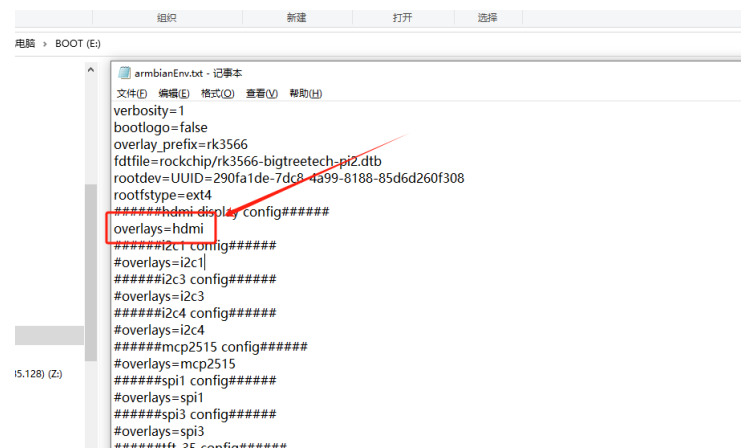
Configure Display

Open overlay file as shown

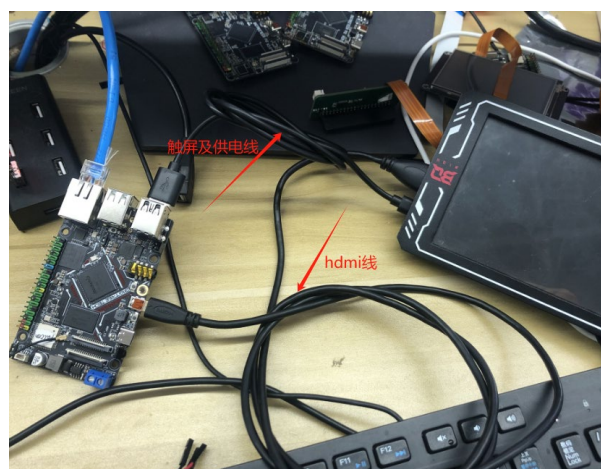


Configure HDMI Display

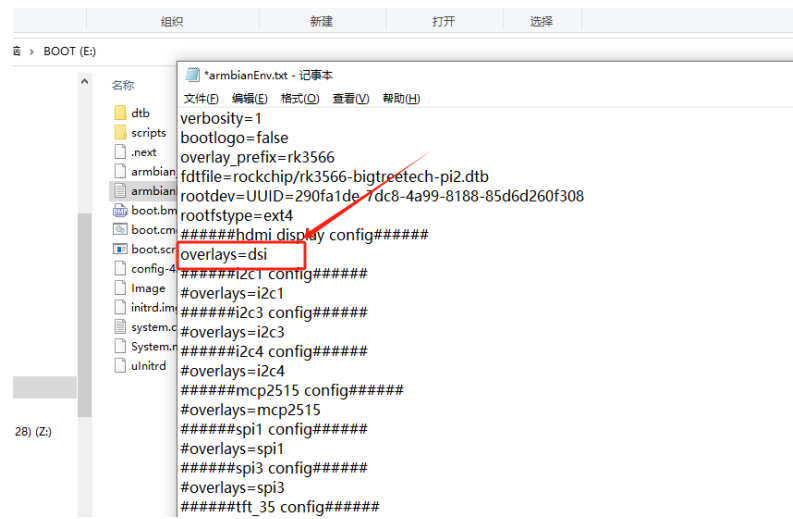
Modify as pictured



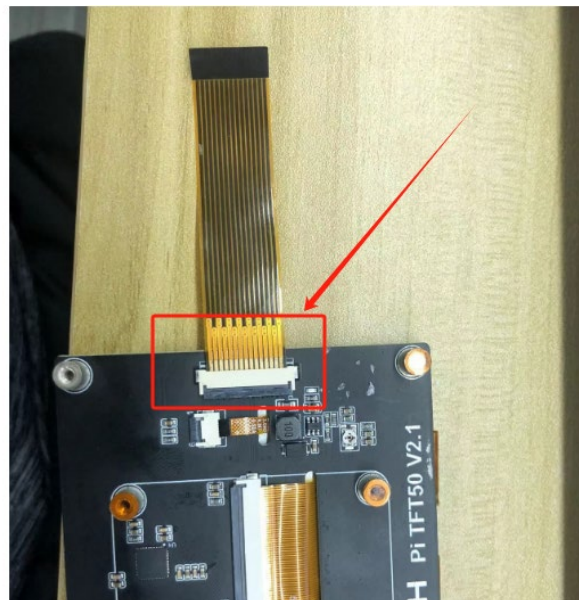
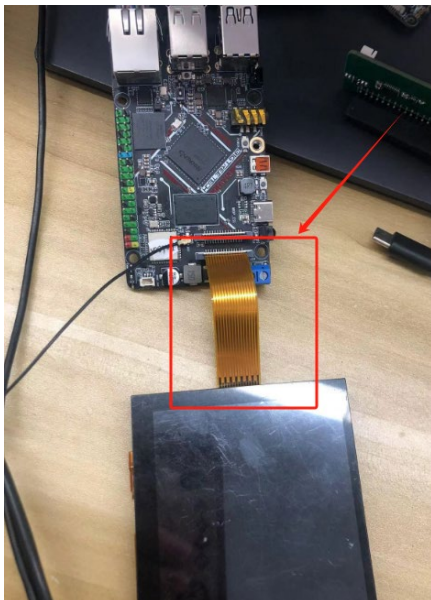
Connect wiring as below



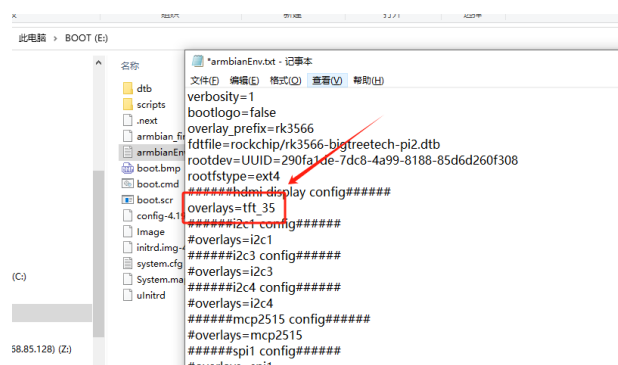
Configure DSI Display



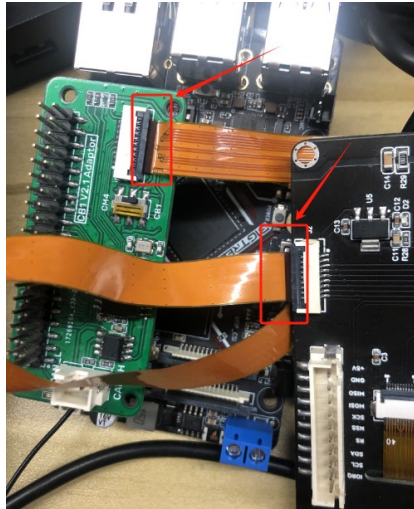
Connect wiring as below



Configure SPI Display



Connect wiring as below



Simultaneous DSI and HDMI only displays preset primary resolution set in device tree.

Use Bluetooth

1. Scan for Bluetooth devices by entering the following command, a list of discovered Bluetooth devices will be shown as below:

`bluetoothctl --timeout 15 scan on`

```
TX errors 0 dropped 0 overruns 0 carrier 0 collist
root@Hurakan:~# bluetoothctl --timeout 15 scan on
Discovery started
[CHG] Controller 50:41:1C:F1:1B:DD Discovering: yes
[NEW] Device 61:81:3F:1B:80:79 61-81-3F-1B-80-79
[NEW] Device 67:06:15:E1:7A:62 67-06-15-E1-7A-62
[NEW] Device 78:77:40:B5:D8:02 78-77-40-B5-D8-02
[NEW] Device 61:C5:14:23:27:CC 61-C5-14-23-27-CC
[NEW] Device 7B:42:68:66:19:07 廖金花
[NEW] Device 6F:D8:78:63:4F:CD 6F-D8-78-63-4F-CD
[NEW] Device 4C:E8:2E:37:02:CE 4C-E8-2E-37-02-CE
[NEW] Device 51:22:49:FC:CF:C1 51-22-49-FC-CF-C1
[NEW] Device 73:B9:DB:2D:F1:08 73-B9-DB-2D-F1-08
[NEW] Device 54:BB:5B:20:30:8F 54-BB-5B-20-30-8F
```

2. Find your Bluetooth device, for example my Bluetooth device name is HONOR xSport PRO. Find its Bluetooth MAC ID in the device list as shown:

```
[CHG] Device 42:70:F4:03:91:BA ManufacturerData Value:
10 07 7a 1f 3b 4d ef 5c 68 ..z.;M.\h
[CHG] Device 4E:B0:A9:B4:33:11 RSSI: -75
[CHG] Device 45:69:88:0D:E0:7B RSSI: -92
[CHG] Device 7F:E1:35:CF:F8:A3 RSSI: -77
[CHG] Device 4E:B0:A9:B4:33:11 RSSI: -88
[CHG] Device 04:7A:0B:19:E7:AF ManufacturerData Key: 0x038f
[CHG] Device 04:7A:0B:19:E7:AF ManufacturerData Value:
0a 10 ff ff ff 64 93 15 36 c3 5c de 20 11 08 08 .....d..6.\. ...
10 17 25 34 ..%4
[NEW] Device E0:9D:FA:50:CD:4F HONOR xSport PRO
[CHG] Device 04:7A:0B:19:E7:AF Class: 0x00a0110
[CHG] Device 04:7A:0B:19:E7:AF Icon: computer
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 0000fdaa-0000-1000-8000-00805f9b34fb
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 00001105-0000-1000-8000-00805f9b34fb
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 0000110a-0000-1000-8000-00805f9b34fb
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 0000110c-0000-1000-8000-00805f9b34fb
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 0000110e-0000-1000-8000-00805f9b34fb
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 00001112-0000-1000-8000-00805f9b34fb
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 0000111f-0000-1000-8000-00805f9b34fb
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 00001200-0000-1000-8000-00805f9b34fb
[NEW] Device 90:0F:0C:2F:50:C2 XIAOYONG
root@Hurakan:~#
```

3. Connect to the Bluetooth device by entering the following command. Successful connection is shown below (refer to 3.1 and 3.2 if connection has issues):

`bluetoothctl connect E0:9D:FA:50:CD:4F`

```
[CHG] Device 90:0F:0C:2F:50:C2 UUIDs: 0000111e-0000-1000-8000-00805f9b34fb
root@bigtreetech-cb2:~# bluetoothctl connect E0:9D:FA:50:CD:4F
Attempting to connect to E0:9D:FA:50:CD:4F
[CHG] Device E0:9D:FA:50:CD:4F Connected: yes
[CHG] Device E0:9D:FA:50:CD:4F UUIDs: 0000110b-0000-1000-8000-00805f9b34fb
[CHG] Device E0:9D:FA:50:CD:4F UUIDs: 0000110c-0000-1000-8000-00805f9b34fb
[CHG] Device E0:9D:FA:50:CD:4F UUIDs: 0000110e-0000-1000-8000-00805f9b34fb
[CHG] Device E0:9D:FA:50:CD:4F UUIDs: 0000111e-0000-1000-8000-00805f9b34fb
[CHG] Device E0:9D:FA:50:CD:4F ServicesResolved: yes
[CHG] Device E0:9D:FA:50:CD:4F Paired: yes
Connection successful
root@bigtreetech-cb2:~#
```

- 3.1 If the following output is seen when connecting a Bluetooth device, turn the Bluetooth device off and on again, then redo steps 1 and 2 to reconnect

```
[CHG] Device 04:7A:0B:19:E7:AF Class: 0x000a0110
[CHG] Device 04:7A:0B:19:E7:AF Icon: computer
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 0000fdaa-0000-1000-8000-00805f9b34fb
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 00001105-0000-1000-8000-00805f9b34fb
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 0000110a-0000-1000-8000-00805f9b34fb
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 0000110c-0000-1000-8000-00805f9b34fb
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 0000110e-0000-1000-8000-00805f9b34fb
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 00001112-0000-1000-8000-00805f9b34fb
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 0000111f-0000-1000-8000-00805f9b34fb
[CHG] Device 04:7A:0B:19:E7:AF UUIDs: 00001200-0000-1000-8000-00805f9b34fb
root@bigtreetech-cb2:~# bluetoothctl connect E0:9D:FA:50:CD:4F
Device E0:9D:FA:50:CD:4F not available
root@bigtreetech-cb2:~#
root@bigtreetech-cb2:~#
root@bigtreetech-cb2:~#
root@bigtreetech-cb2:~#
root@bigtreetech-cb2:~#
root@bigtreetech-cb2:~# bluetoothctl --timeout 15 scan on
Discovery started
[CHG] Controller 50:41:1C:F1:1B:DD Discovering: yes
[NEW] Device 4F:8C:BC:B9:0B:27 4F-8C-BC-B9-0B-27
```

- 3.2 If the following output is seen when connecting a Bluetooth device, enter the following command, then redo steps 1 and 2 to reconnect:

`bluetoothctl remove E0:9D:FA:50:CD:4F` (your device's MAC ID)

`rfkill block bluetooth`

`sleep 3s`

`rfkill unblock bluetooth`

`pulseaudio -k`

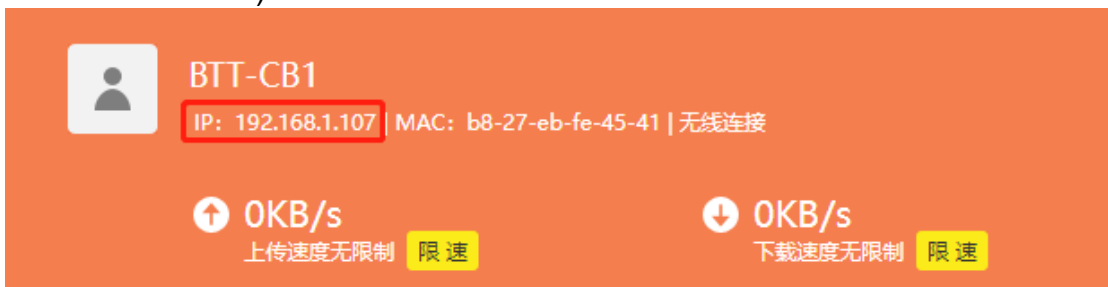
`pulseaudio --start`

```
[DEL] Device 40:60:97:F3:85:D6 40-60-97-F3-85-D6
root@bigtreetech-cb2:~# bluetoothctl connect E0:9D:FA:50:CD:4F
Attempting to connect to E0:9D:FA:50:CD:4F
[CHG] Device E0:9D:FA:50:CD:4F Connected: yes
[CHG] Device E0:9D:FA:50:CD:4F UUIDs: 0000110b-0000-1000-8000-00805f9b34fb
[CHG] Device E0:9D:FA:50:CD:4F UUIDs: 0000110c-0000-1000-8000-00805f9b34fb
[CHG] Device E0:9D:FA:50:CD:4F UUIDs: 0000110e-0000-1000-8000-00805f9b34fb
[CHG] Device E0:9D:FA:50:CD:4F UUIDs: 0000111e-0000-1000-8000-00805f9b34fb
[CHG] Device E0:9D:FA:50:CD:4F ServicesResolved: yes
Failed to connect: org.bluez.Error.Failed
root@bigtreetech-cb2:~# bluetoothctl remove E0:9D:FA:50:CD:4F
[DEL] Device E0:9D:FA:50:CD:4F HONOR xSport PRO
Device has been removed
root@bigtreetech-cb2:~# rfkill block bluetooth
```

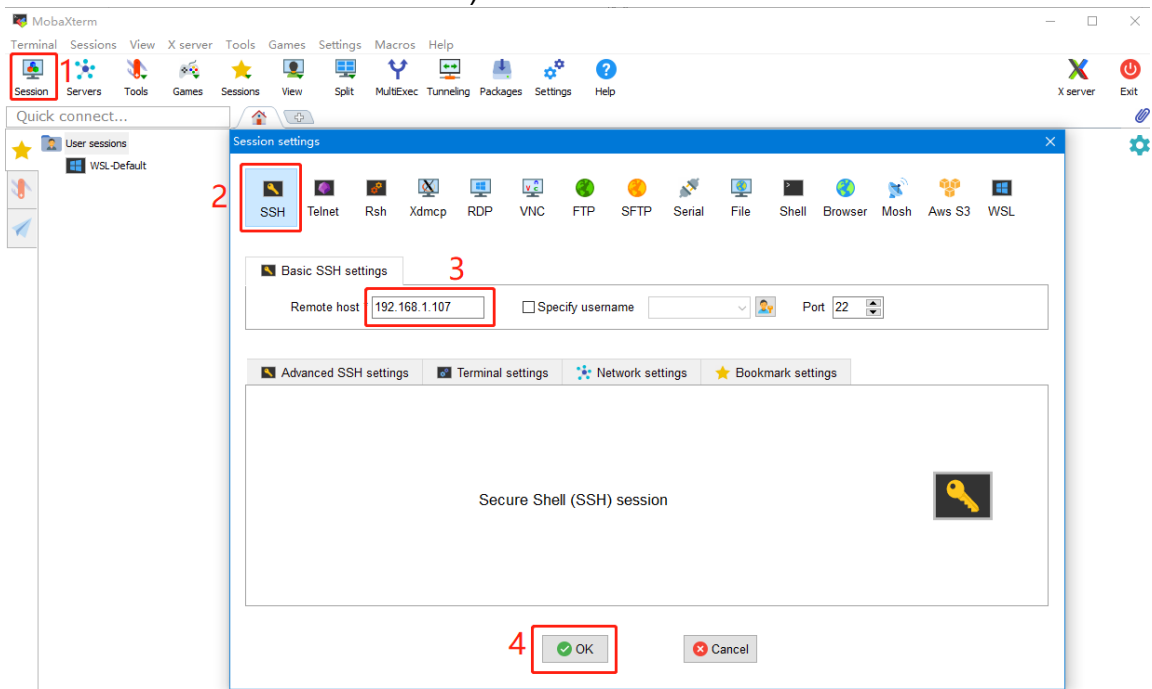
Configuring the Board

SSH Connect to Device

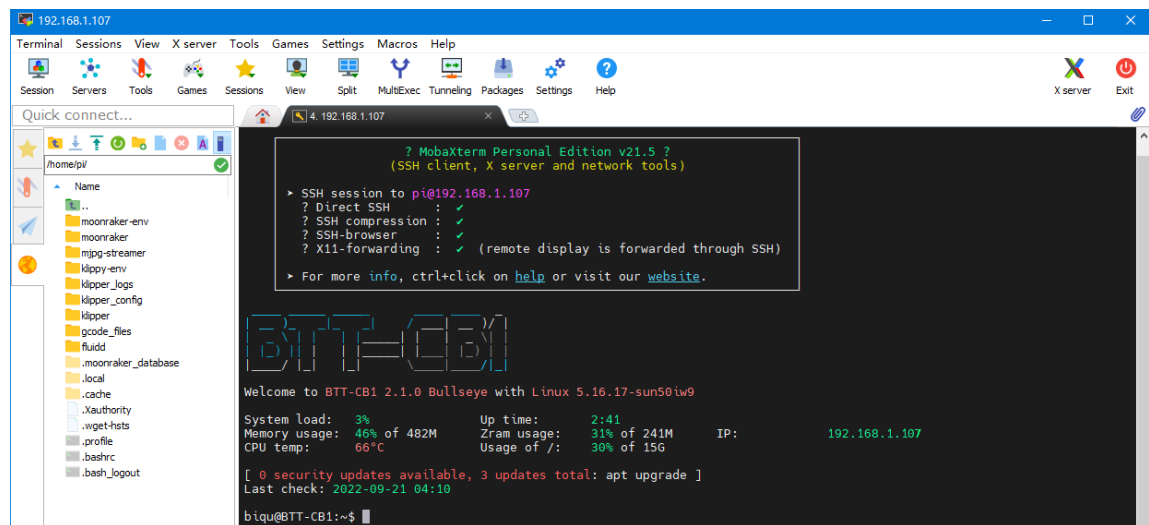
1. Install the SSH application MobaXterm:
<https://mobaxterm.mobatek.net/download-home-edition.html>
2. Insert microSD card to the motherboard, wait for system to load after power on, approx. 1-2min.
3. The device will automatically be assigned an IP address after being successfully connected to the network.
4. Access the router management interface to find the device's IP (it should be BTT-CB2 here).



5. Open MobaXterm and click "Session", and click "SSH", inset the device IP into Remote host and click "OK" (**Note:** your computer and the device needs to be in the same network).



6. Login as: biqu password: biqu



Compile MCU Firmware

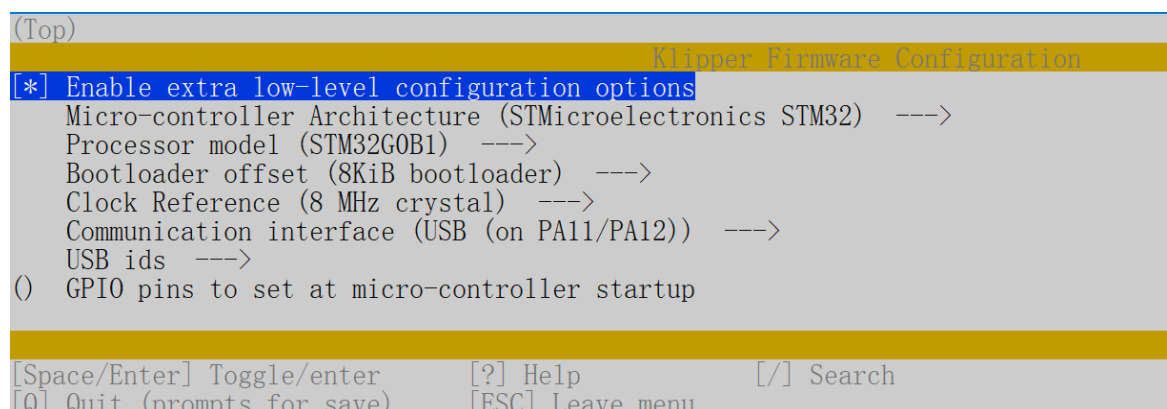
1. After SSH successfully connected to the device, enter in terminal:

```
cd ~/klipper/
```

```
make menuconfig
```

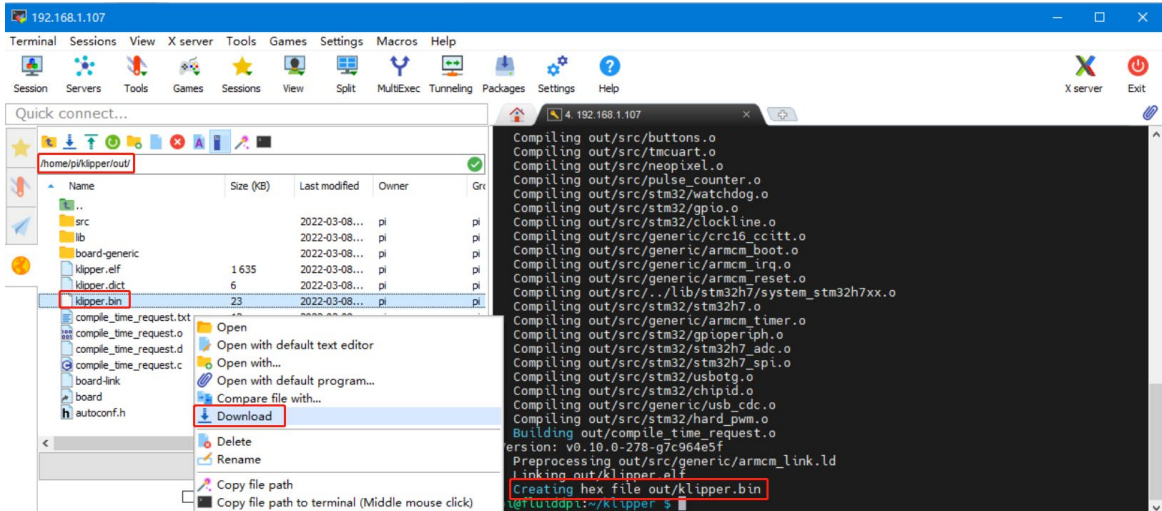
2. Compile the firmware using the appropriate board configuration, here using Manta M4P as an example:

- * **[*] Enable extra low-level configuration options**
- * **Micro-controller Architecture (STMicroelectronics STM32) --->**
- * **Processor model (STM32G0B1) --->**
- * **Bootloader offset (8KiB bootloader) --->**
- * **Clock Reference (8 MHz crystal) --->**
- * **Communication interface (USB (on PA11/PA12)) --->**



3. Press **q** to exit, and **Yes** when asked to save the configuration.

4. Run **make** to compile firmware, "klipper.bin" file will be generated in **home/pi/klipper/out** folder when **make** is finished, download it onto your computer using the SSH application.



If you need further resources for this product, you can find them at [GitHub](https://github.com/bigtreetech/). If you cannot find what you need, you may contact our after-sales support(service005@biqu3d.com).

If you encounter any other problems during use or have suggestions or feedback, please contact us. Thank you for choosing BIGTREETECH products.