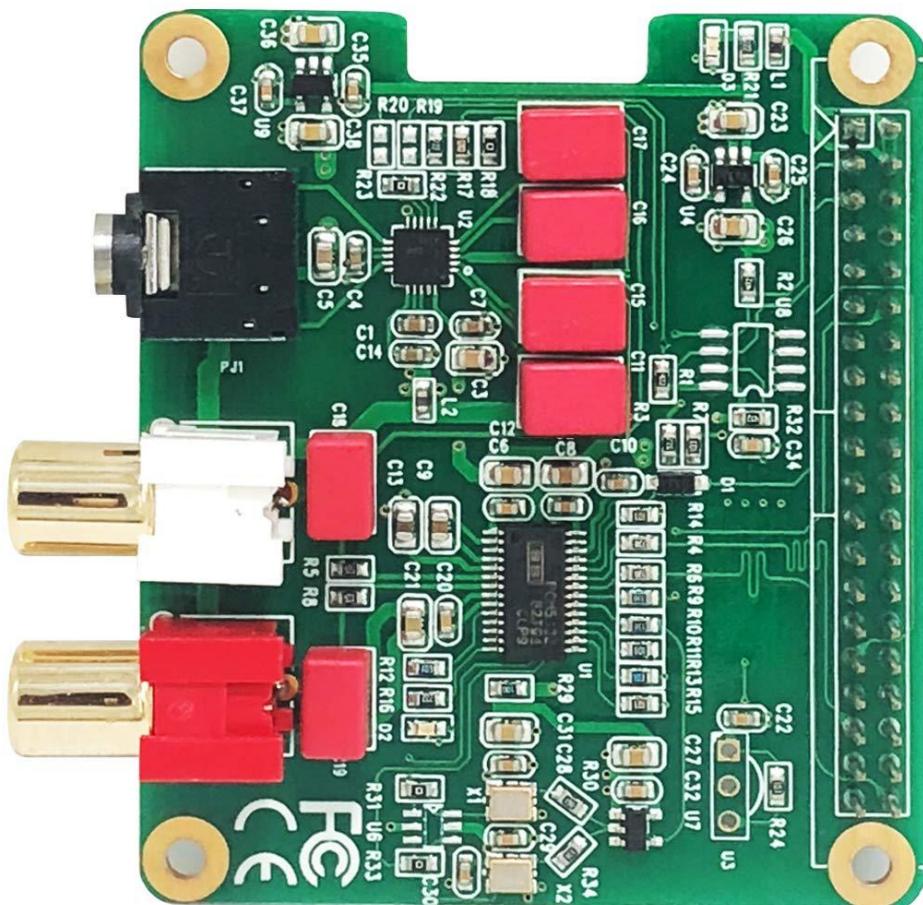


## HIFI DAC HAT UserManual



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## 1. General

The Innomaker HiFi DAC Hat is the best optimized partner for RPI audio output. Used on-board PCM5122 as the IIS clock master , instead of the clocks from RPI which comes with too much jitter. Added dual low jitter oscillators(45.158M and 49.152M) to support more exact sample rate clocks. No soldering, no additional cables. Just plug it in and do some simple configuration, You can get a same high-class music player, but only pay 1/10 to 1/100 of the market price.

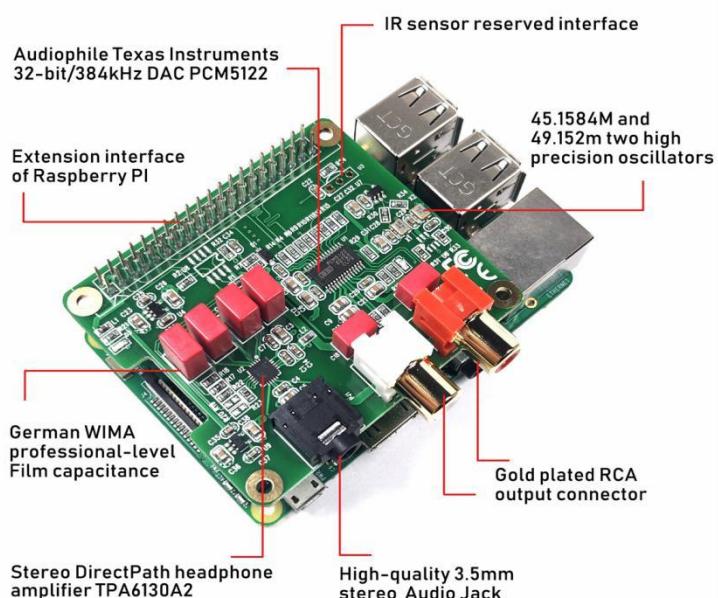
## 2. Features

1. Compatible with Raspberry Pi Zero,Zero W,3B,3B+with the 40-pin connector. Connects directly to the Raspberry Pi board, no additional cables required,no soldering. Easy to get more beautiful and fantastic sound by this RPI+DAC HIFI suits.
2. Absolutely perfect to support all Raspberry Pi music playback system ,such as LibreELEC, OSMC, Max2Play, RuneAudio, Volumio, Moode, PiCorePlayer, PiMusicBox, OpenELEC, Raspbian, Ubuntu etc. Support play music from a hard disk or over the network. Support DSD over PCM(DOP)mode.
3. Class-leading stereo audio DAC PCM5122, sample rates up to 384-KHz/32-Bit. Paired with stereo high fidelity headphone amplifier TPA6133. Provides 2.1Vrms ground-centered outputs coupled with Film capacitor.
4. On-board a pair of gold plated RCA (LEFT &Right) jacks and a 3.5mm high-end headphone jack output, allow you free to play your music through Raspberry Pi to another terminals.
5. Comes with software, document and friendly technology support. For more information please refer to our wiki (view the link on color page comes with the goods).
6. On-board EEPROM and Infrared receiver extended function(Default no soldering)

### 3. Hardware Description

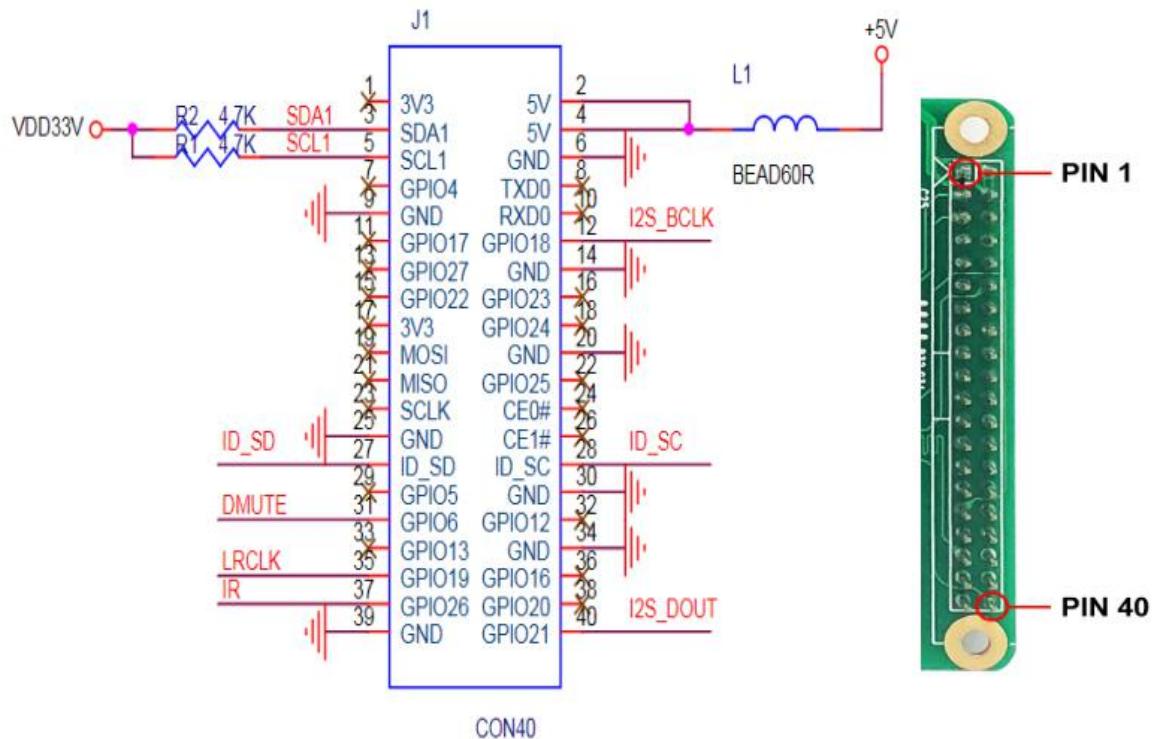
Connect the HIFI DAC HAT module and RPI with 40 pin connector .While installing the module attention to align the first leg of the raspberry pi and HIFI DAC HAT module.

#### 3.1 Overview



### 3.2 PINOUT USAGE- FEMALE CONNECTOR

#### 1) 40 PIN Interface Schematic



## 2) 40 PIN Interface Description

PIN	Symbol	Description
2, 4	+5V	+5V Supply Pin, connected to the main 5V supply of the Raspberry Pi
3	SDA1	SDA Used for DAC and EEPROM
5	SCL1	SCL Used for DAC and EEPROM
12	GPIO_18	IIS_BCLK
31	GPIO_6	Mute function control pin
35	GPIO_19	IIS_LRCLK
37	GPIO_26	Infrared receiver reserved port
40	GPIO_21	IIS_DOUT
27, 28	ID SCL and ID SDA	Reserved for an ID EEPROM on the Raspberry Pi. These pins are always reserved and should never be used to connect external components
6, 9, 14, 20, 25, 30, 34, 39	GND	Ground Pin, connected to the main system Ground of the Raspberry Pi

The remaining pins are unused, You can use them for your other hardware boards.

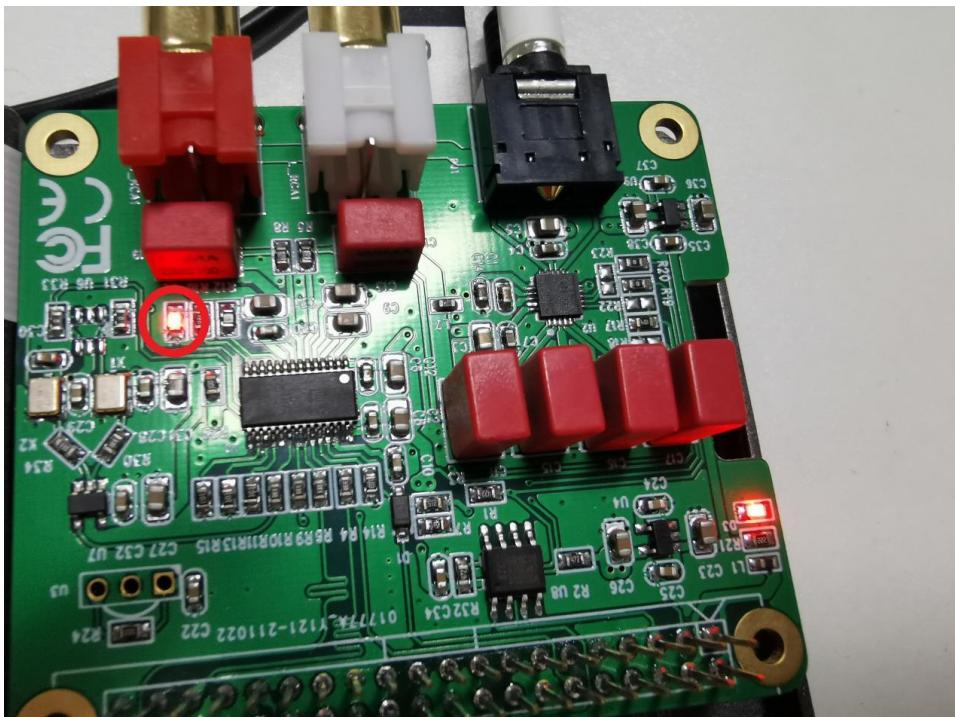
For more information about GPIO of Raspberry PI, please refer to below link:

<https://www.raspberrypi-spy.co.uk/2012/06/simple-guide-to-the-rpi-gpio-header-and-pins/#prettyPhoto>

<https://docs.microsoft.com/en-us/windows/iot-core/learn-about-hardware/pinmappings/pin mappingsrpi>

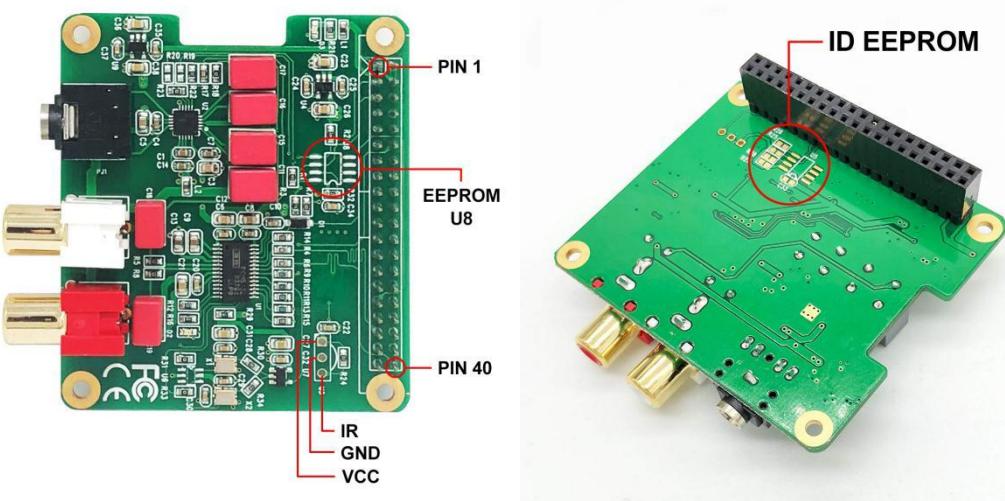
### 3) Indicator Light

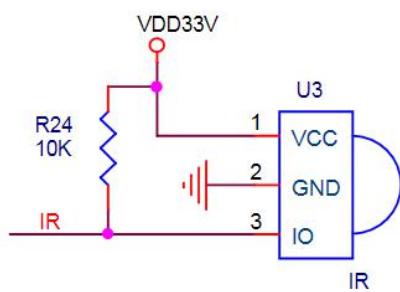
When the DAC module driver is install successfully and be detected, below red led on-board should be on.



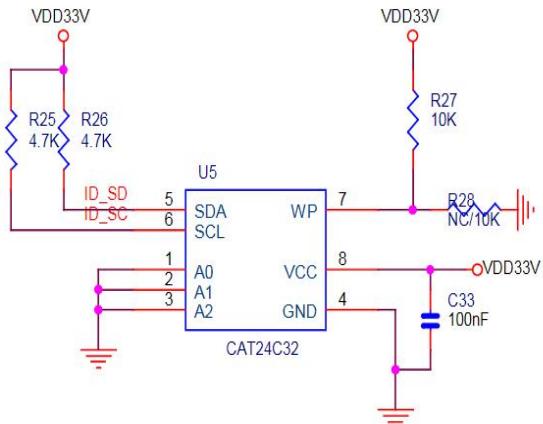
#### 3.3 Extended Function

We reserved some function for customer DIY by themself.



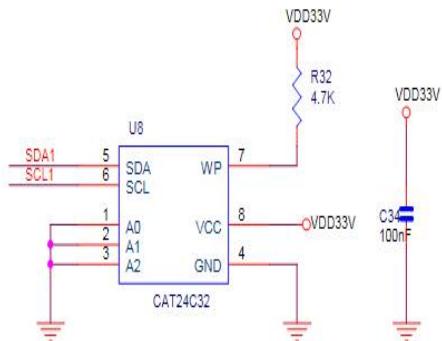
**1) Infrared Receiver Function: ( U3, No Soldering On-board )**

IR is connected to PIN37(GPIO\_26), But we have no software for it right now. We will release new software version after finish it. If you have any advices please feel free to E-mail to us.

**2) ID EEPROM: (U5, No soldering on-board )**

Pin 27 and 28 are always reserved for an ID EEPROM on the Raspberry Pi. Independently which card you use. It's useless for most application. If you want to use this function, you need to solder the IC, resistance and capacitance by yourself.

## 3) USER EEPROM: (U8 No soldering on-board )



If connected to the same IIC port with DAC, you need to solder the IC and Confirm IIC slave devices. If you a novice of Raspberry Pi, We really wouldn't advise do that.

## 4. Software Description

### 4.1 Overview

HIFI DAC HAT module compatible with many Raspberry pi music playback system such as:  
OSMC / Max2Play / RuneAudio / Volumio / Moode / PiCorePlayer / PiMusicBox / OpenELEC etc.  
You can choose your favorite. We take **Volumio/Moode/LibreELEC/Max2play/Raspbian/OSMC**  
Preset System for Example.

May I draw your attention below:

- 1) Because the third party will update the version unscheduled, so the actual UI may different from below user guide. But the configurations will be the same. If you meet any problem, you can Check the user help on the website of the third party or feel free to e-mail to our support team (support@inno-maker.com).
- 2) The default sound is loud of most system, it' will offensive your ears. So please turn down the volume before you enjoy it.
- 3) For some music systems that are not listed, you can try to set as below step. Many thanks to the friendly customer named 'HoweTechnical' write it down on our Amazon review page.
  - a. SSH into your RPI (won't go into how to do that, Google it if you need)
  - b. Type "cd .." and press enter (no quotes)
  - c. Type "mount -o remount,rw /flash" (no quotes) to remount the flash directory as rewritable
  - d. Type "nano /flash/config.txt" (no quotes)
  - e. Arrow down to the bottom and type this at the end: dtoverlay=allo-boss-dac-pcm512x-audio
  - f. Press ctrl+x, choose y (for yes, to overwrite the file) and press enter
  - g. Type "reboot" (no quotes) to reboot the system
  - h. Now in Kodi, to into Settings - System Settings - Audio and choose the default output device of, "ALSA: Default (BossDAC Analog)



[www.inno-maker.com](http://www.inno-maker.com)

Design Service, Production Service

## 4.2 Download Image from website

Download the latest image for Raspberry Pi:

**Volumio Image:**

<http://volumio.org/get-started/>

**MoOde Image:**

<http://www.moodeaudio.org/>

**LibreELEC:**

<https://libreelec.tv/downloads/raspberry/>

**Max2Play Image:**

<https://www.max2play.com/en/max2play-image/>

**Raspbian and Raspbian lite Image:**

<https://www.raspberrypi.com/software/operating-systems/>

**OSMC:**

<https://osmc.tv/download/>

## 4.3 Load Image on to SD card.

Prepare a capacity of at least 16GB TF card and a card reader. Load the image file onto a SD card, using the instructions provided on the Raspberry Pi website for Linux, Mac or PC:

<https://www.raspberrypi.org/documentation/installation/installing-images/README.md>

## 4.4 VOLUMIO Setup

Volumio is an entirely new music system. It is designed to play all your music, whether is an Hi-Res file or a Web Radio, with the highest quality. Control it with your favourite device, a smartphone, PC or tablet, and enjoy your music as you never did before.

Volumio is a Free and Open Source Linux Distribution, designed and fine-tuned exclusively for music playback. It supports all filetypes: FLAC, Alac, Aac, Vorbis, Mp3, DSD etc. and support

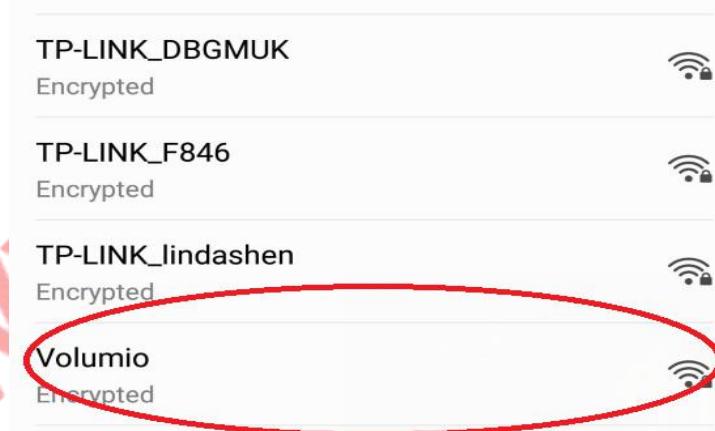
By flashing (installing) Volumio on any platforms, it will then become a headless Audiophile Music Player. Headless means that the only way to control it will be with another device, such as a Smartphone, Tablet, PC or anything that has a browser.

For more detail please refer to <https://volumio.org/discover/>.

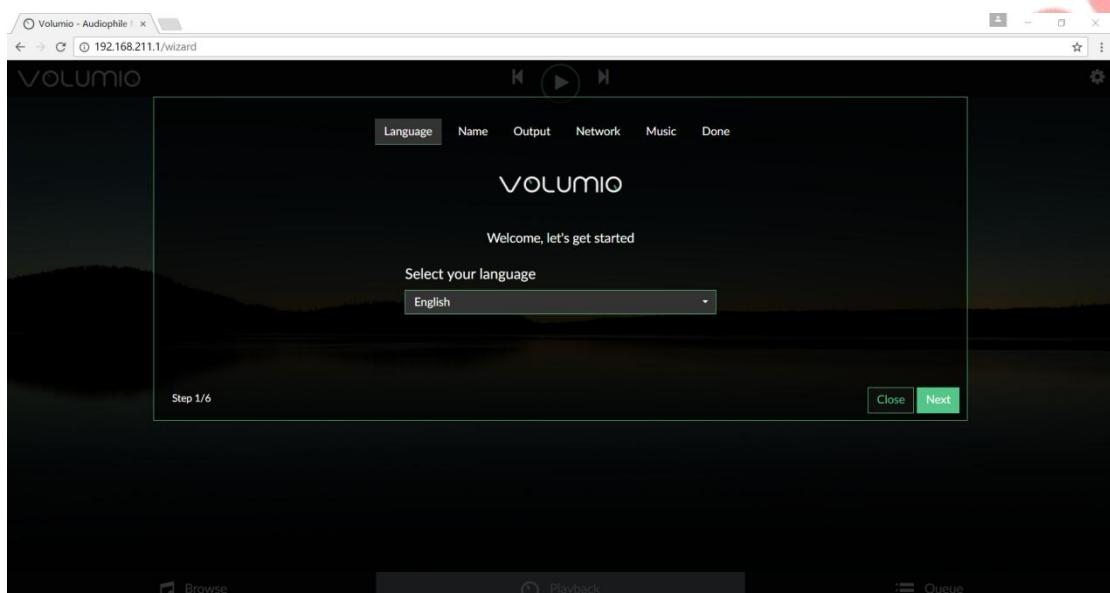
### STEP:

1) Insert the TF card with volumio image into the Raspberry pi then power on.

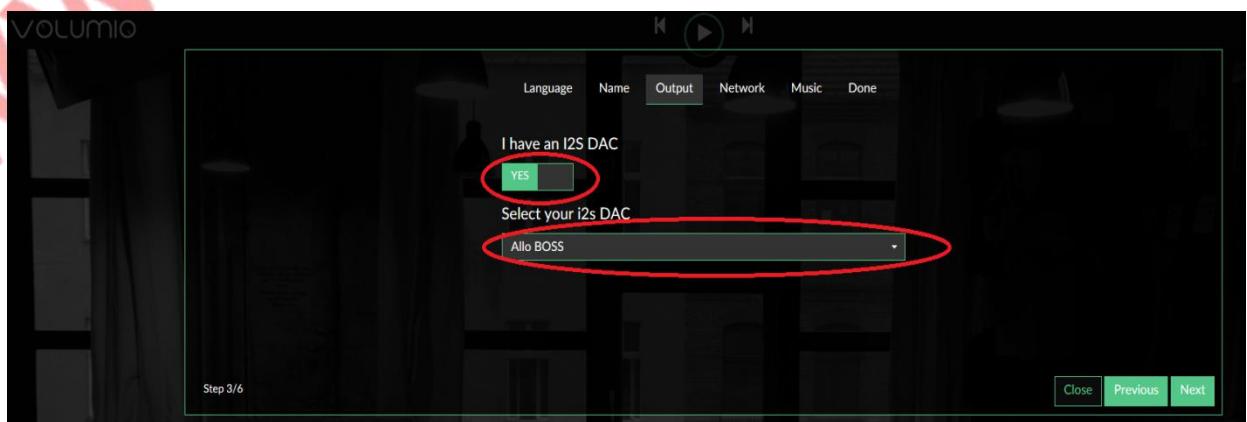
2) By using your smart phone, tablet or any device with WIFI and browser search for WIFI hotspots. You can see a 'Volumio' name in the search list. Connect this hotspot with password 'volumio2'. You can change your password after login.



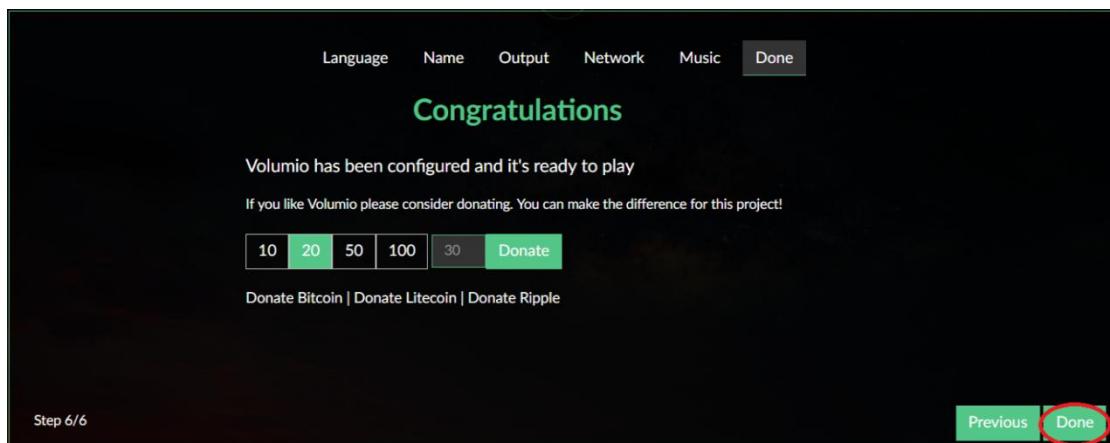
3) The browser will automatically eject playback software UI which is based on web interface ( if you connect the hotspot successfully but for some reason browser can't pop up the playback page automatically, you can use <http://192.168.211.1> to login. You can see below wizard of Volumio. We only need to set "Language", "Name" "Output" and "Done" for simple application.



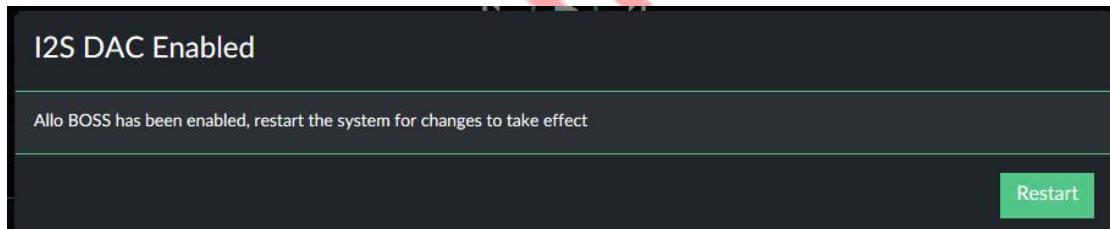
4) It should be noted that 'Output' page must set as below. This is an essential step, otherwise you can't hear anything.



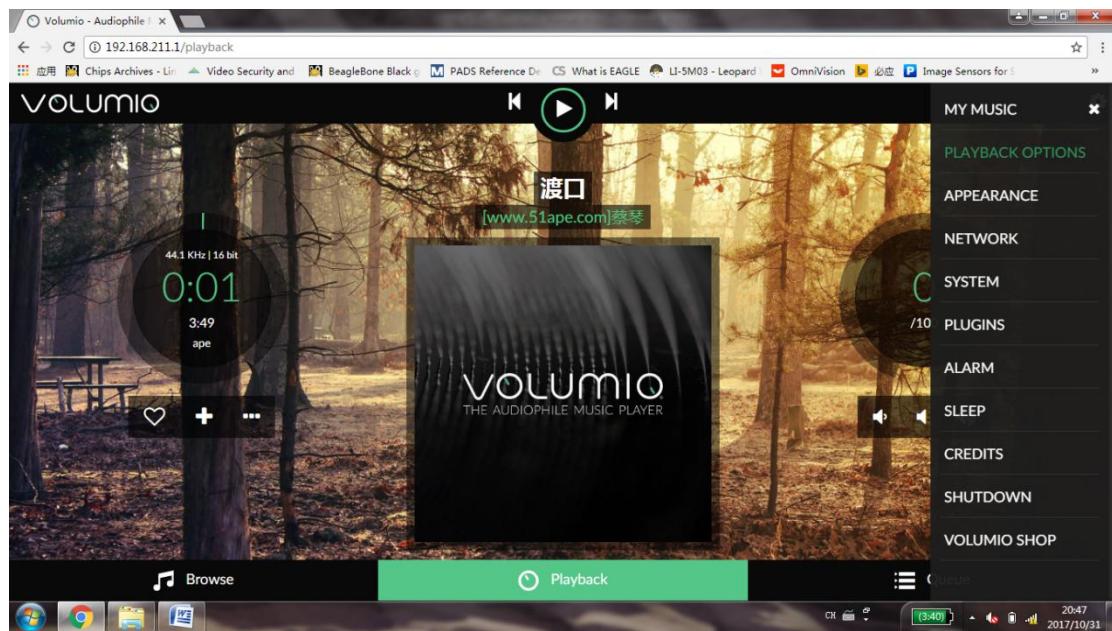
5) In 'Done' Page, you can see a request for donations from Volumio. It's depend on you. You can give them some help if you like this application. Gifts of roses, hand a fragrance.



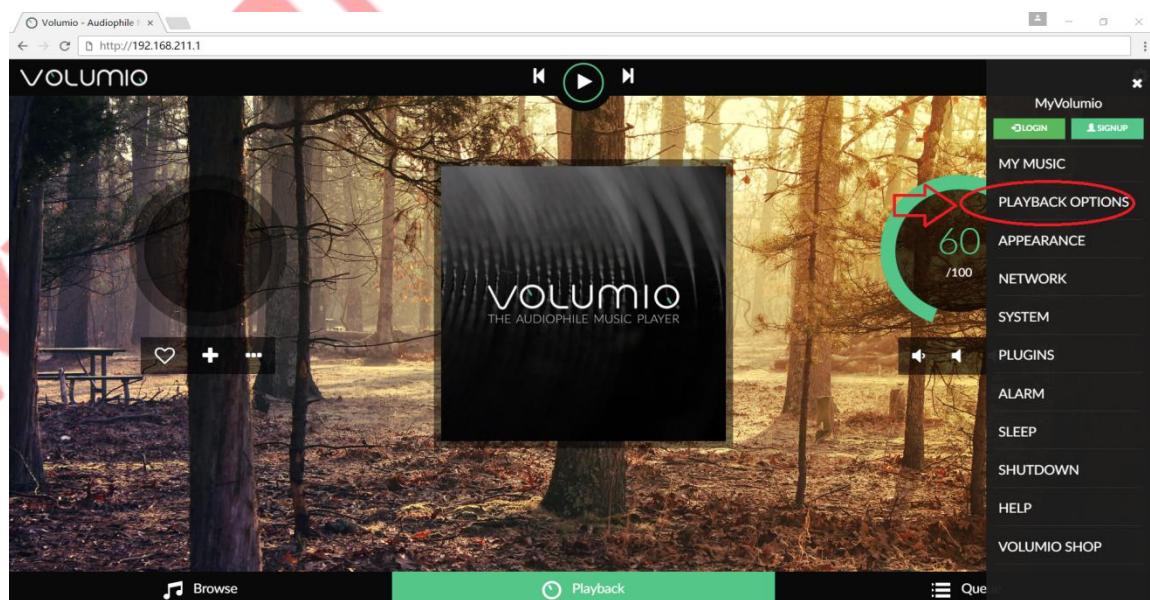
6) Click 'Done' to finish initialization of Volumio. And then restart Volumio.



7) In this restart process, "Volumio" hotspot will turn off for a moment. Sometimes your mobile phone , Tablet or PC will automatic reconnect to your wifi nearly. You need to set back to 'Volumio' hotspot. After restart you can see the main page of Volumio.

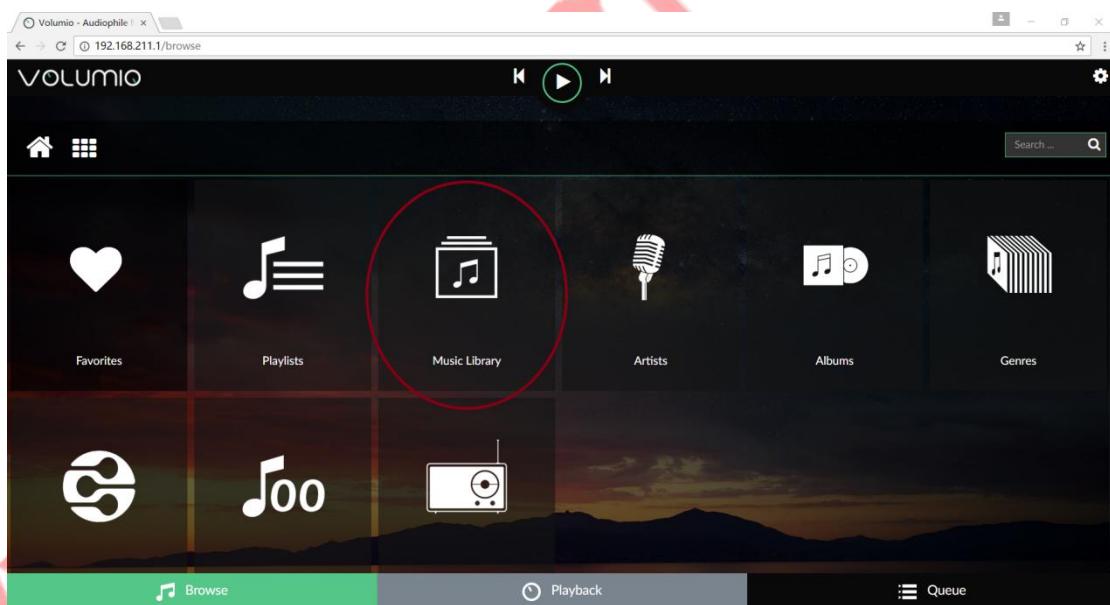


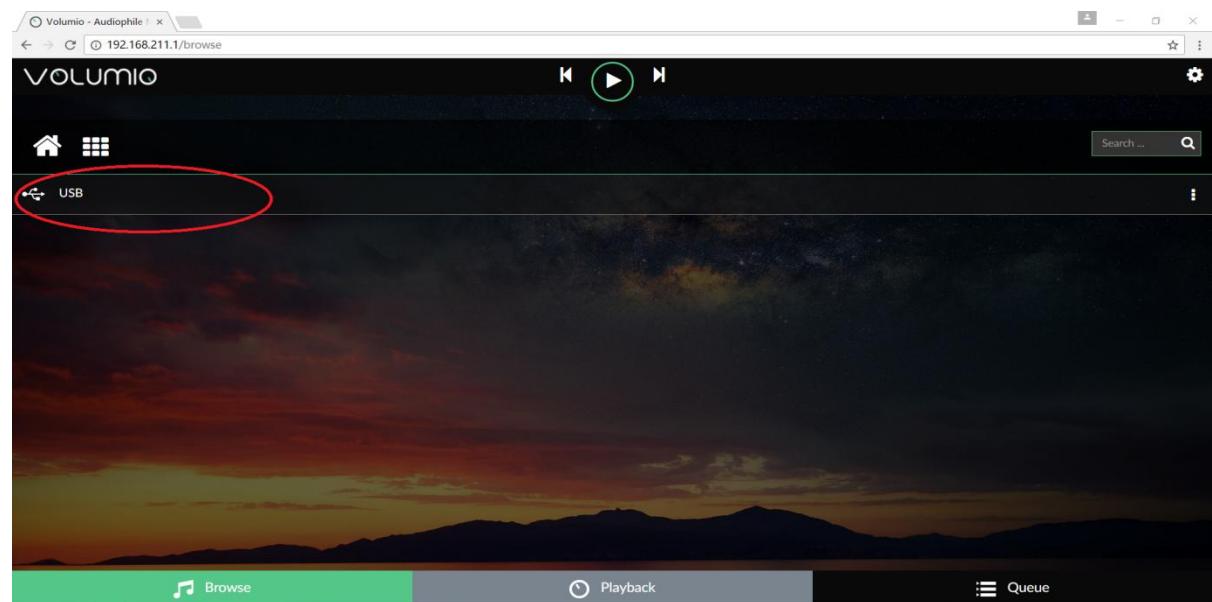
8) If you can't play music properly, please Click 'Setting' → PLAYBACK OPTION, check the output setting as below picture. This is an essential step, otherwise you can't hear anything.





9) You can insert the USB Disk or mobile hard disk with your own audio file into Raspberry Pi USB connector, and find the music list of your USD disk in “Music Library” .





#### 4.5 VOLUMIO Play DSD Music Files

DSD64, DSD128 AND DSD256 are now natively supported in direct DSD mode on Volumio.

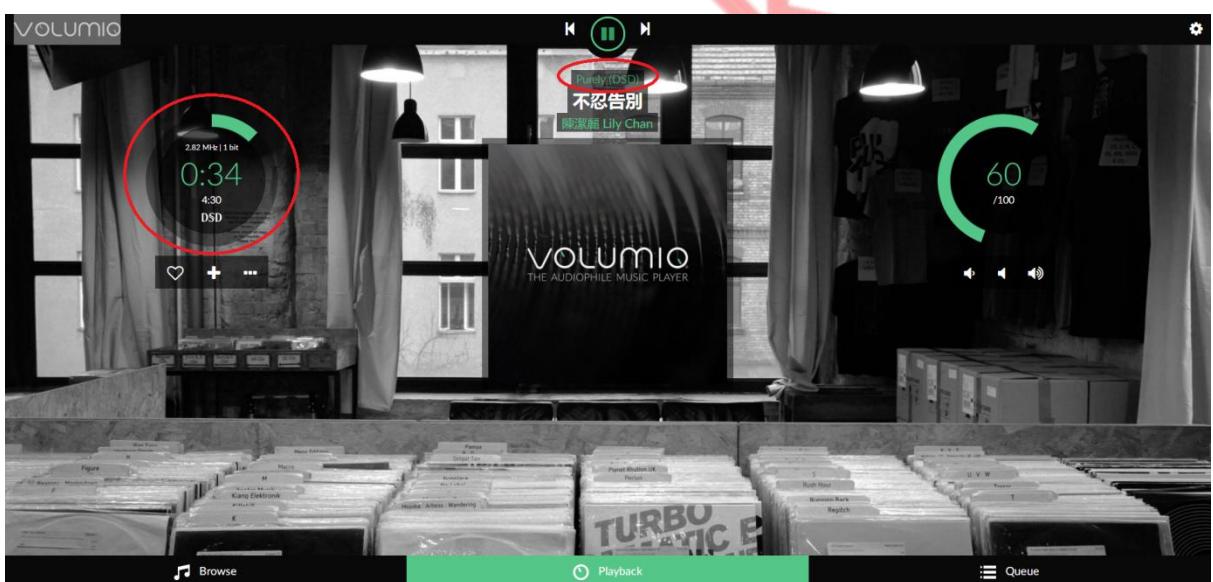
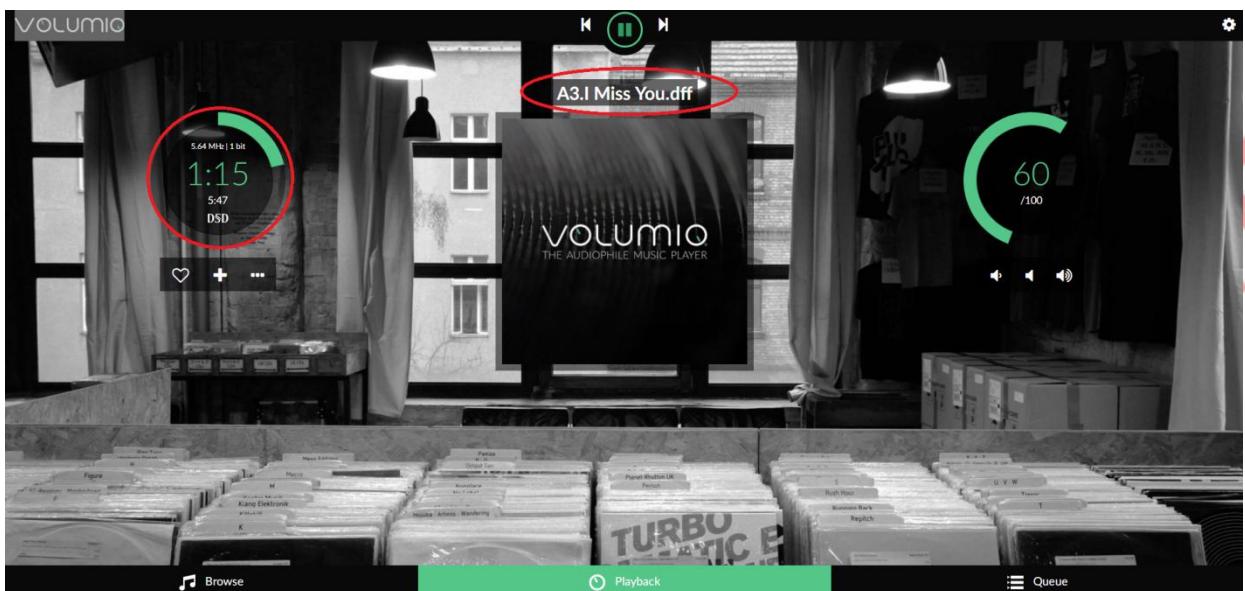
For more DSD information please refer to Volumio link:

<https://volumio.org/direct-dsd-support-volumio-dsd512/>

Please set 'General Playback Options' mode as below picture:



Restart and enjoy DSD music.



## 4.6 MoOde Setup

1) We just talk about the basics, for more information please read the official user manual:

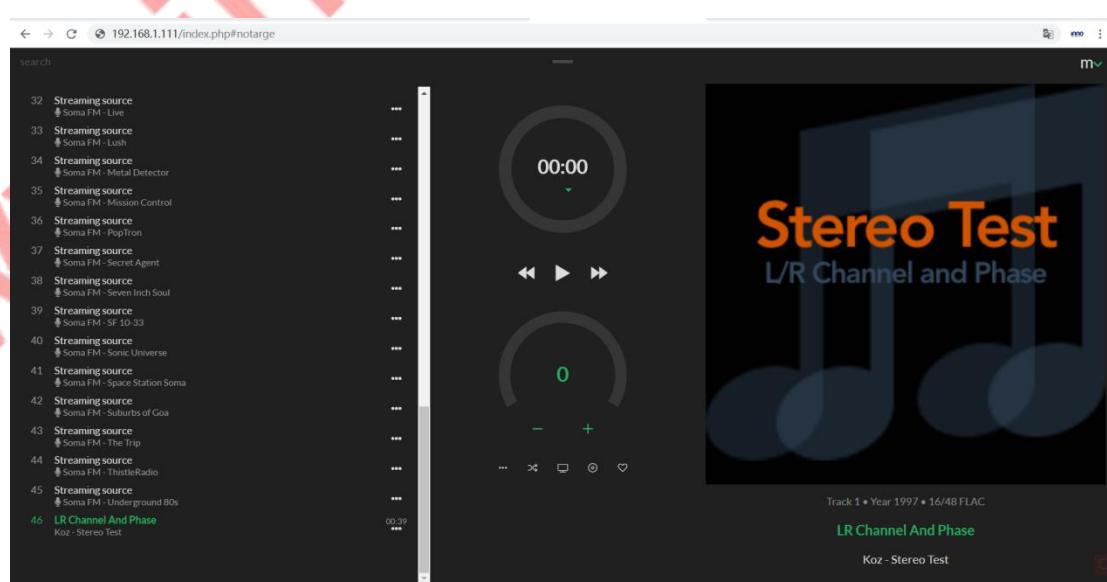
<https://github.com/moode-player/moode/blob/master/www/setup.txt>

2) Insert the TF card with MoOde image into the Raspberry Pi, and then connect to your router by LAN cable. Finally power on. Make sure your Raspberry Pi, Desktop (mobile phones, laptop, pad and so on) in the same local area network(LAN). Get the IP address of Raspberry Pi through check up the router or use some IP checker tools.



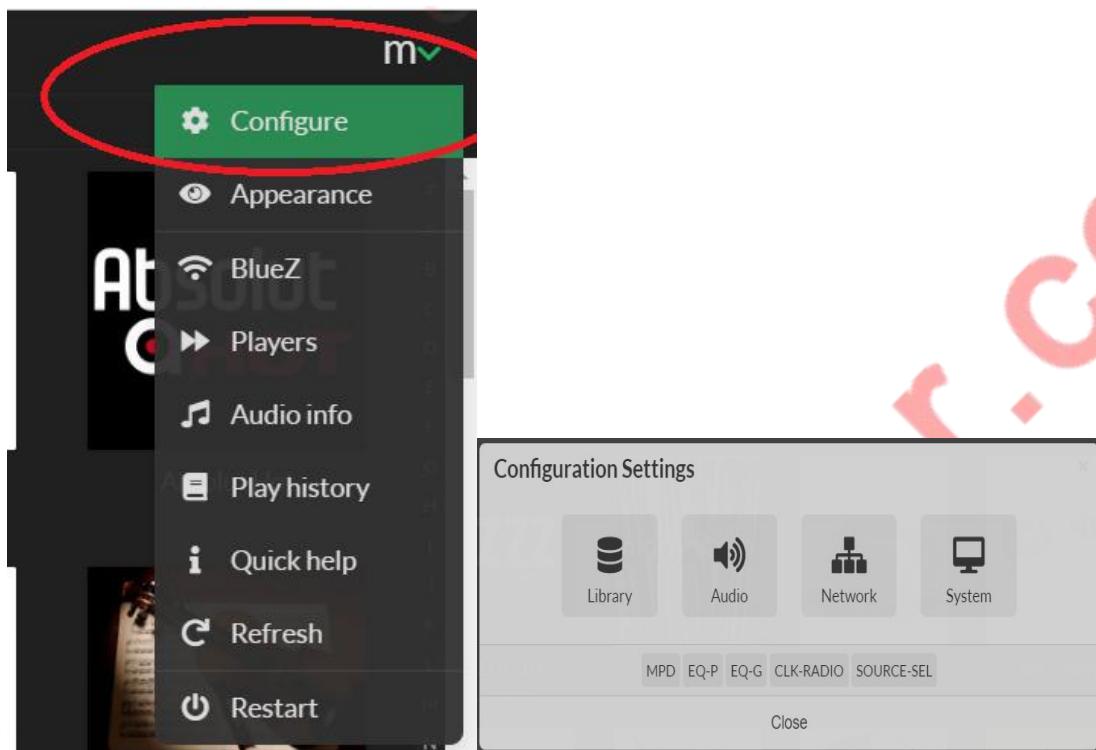
3) You also use your device(mobile phones, laptop, pad and so on) to connect the hotspot of moode. Named: 'Moode', and Password is 'moodeaudio'. Login page: http://172.24.1.1/

4) Connected the Raspberry Pi through browser. You get the display of Moode.

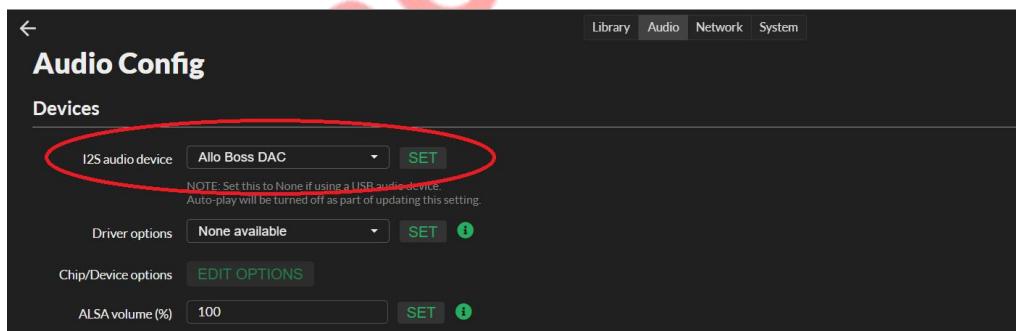


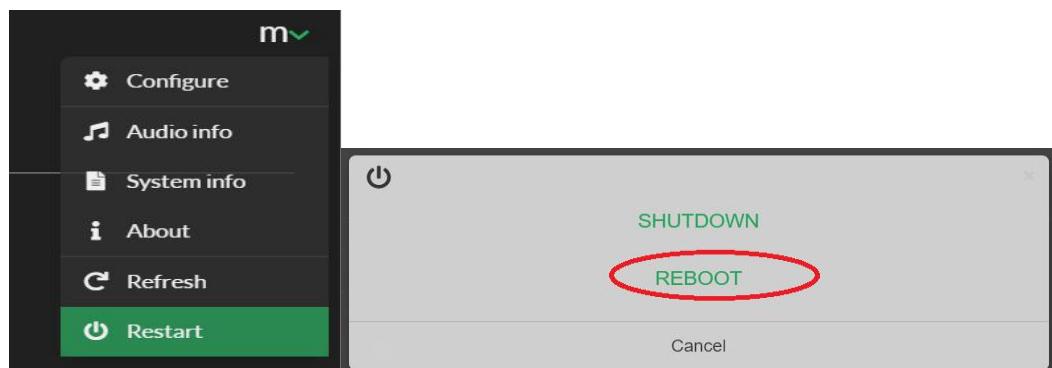
The screenshot shows the Moode web interface. On the left, there is a sidebar with a list of streaming sources numbered 32 to 46. The sources include various radio stations like Soma FM - Live, Soma FM - Lush, Soma FM - Metal Detector, Soma FM - Mission Control, Soma FM - Poptron, Soma FM - Secret Agent, Soma FM - Seven Inch Soul, Soma FM - SF 10-33, Soma FM - Sonic Universe, Soma FM - Space Station Soma, Soma FM - Suburbs of Goa, Soma FM - The Trip, Soma FM - ThistleRadio, Soma FM - Underground 80s, and LR Channel And Phase. The main area displays a digital audio player with a track titled "Stereo Test L/R Channel and Phase" by Koz - Stereo Test. The player shows a volume meter and playback controls. At the bottom, it indicates "Track 1 • Year 1997 • 16/48 FLAC".

5) Click the icon in the upper right for setting the system.

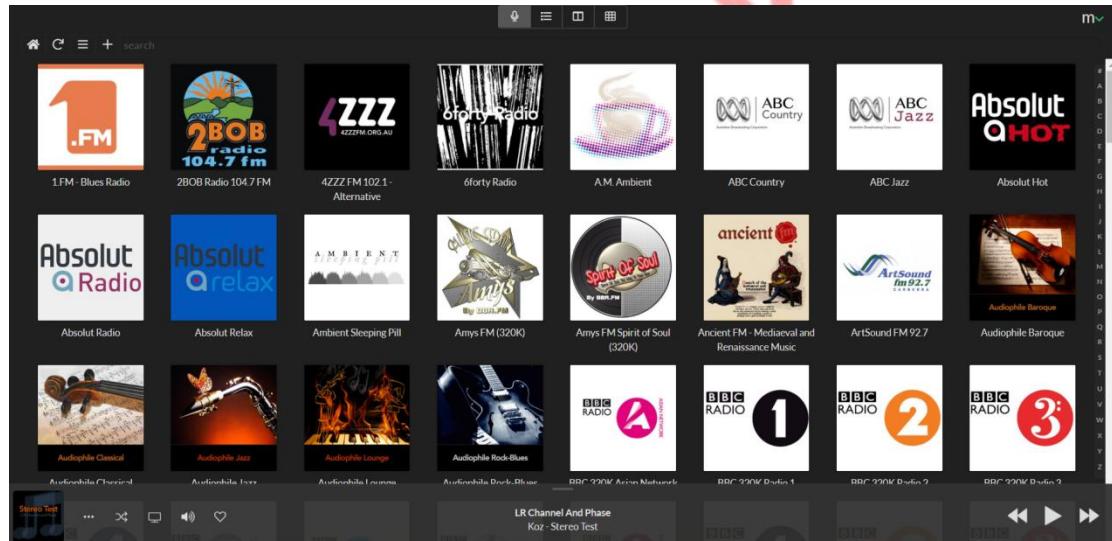


6) Click 'Audio', set as 'Allo Boss DAC' and save and restart. This is an essential step, otherwise you can't hear anything.

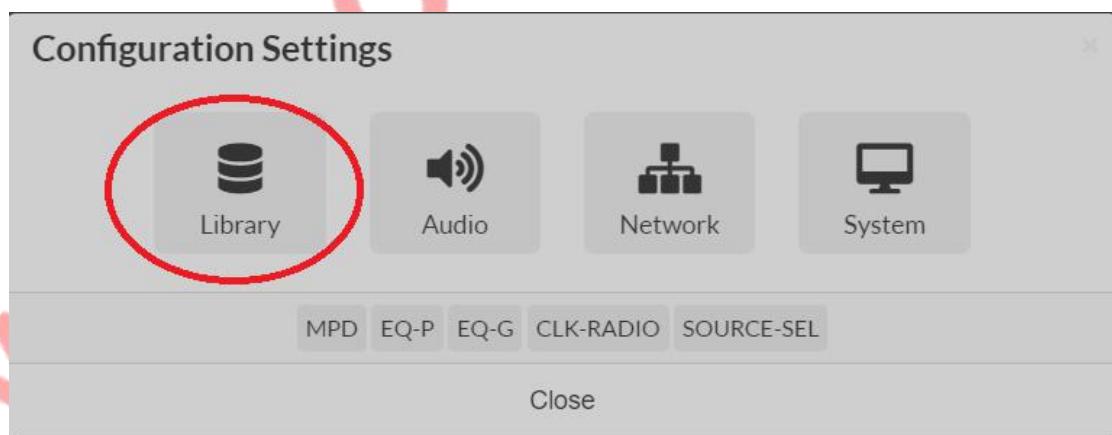
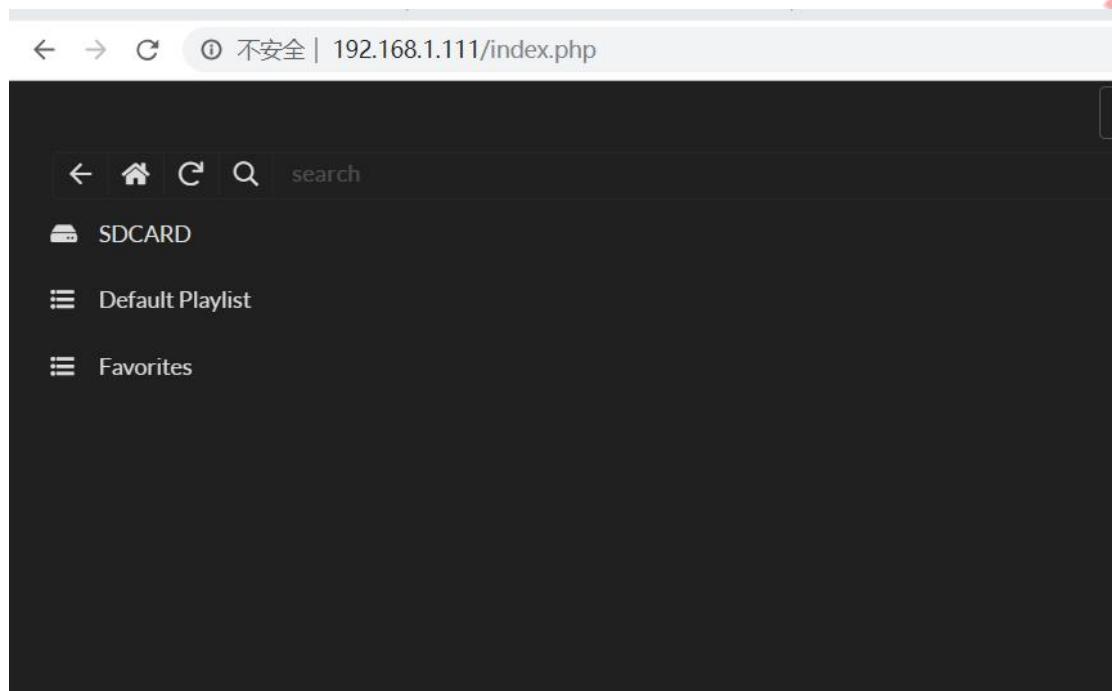


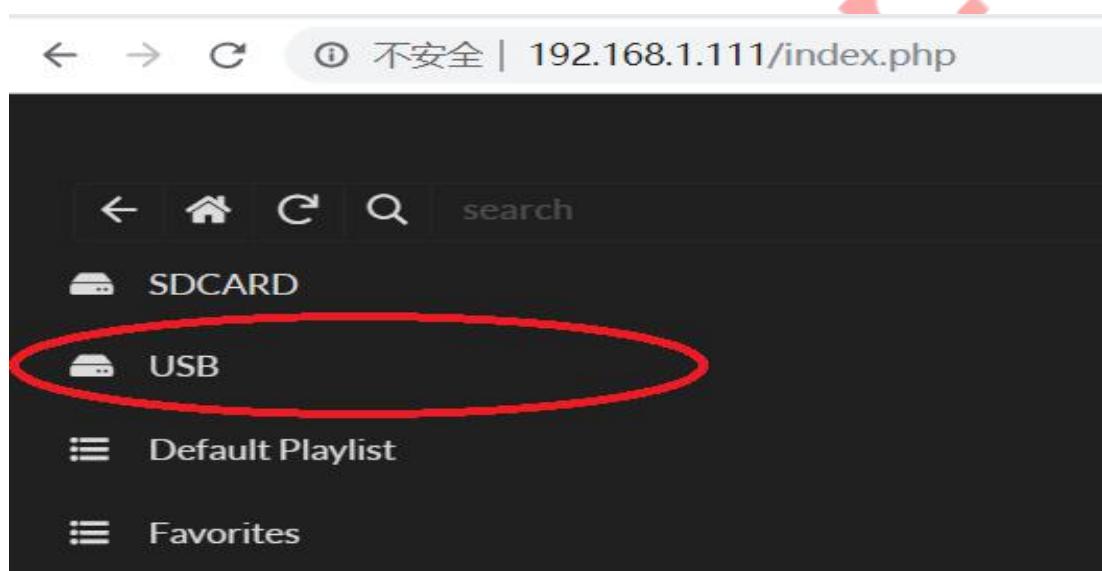
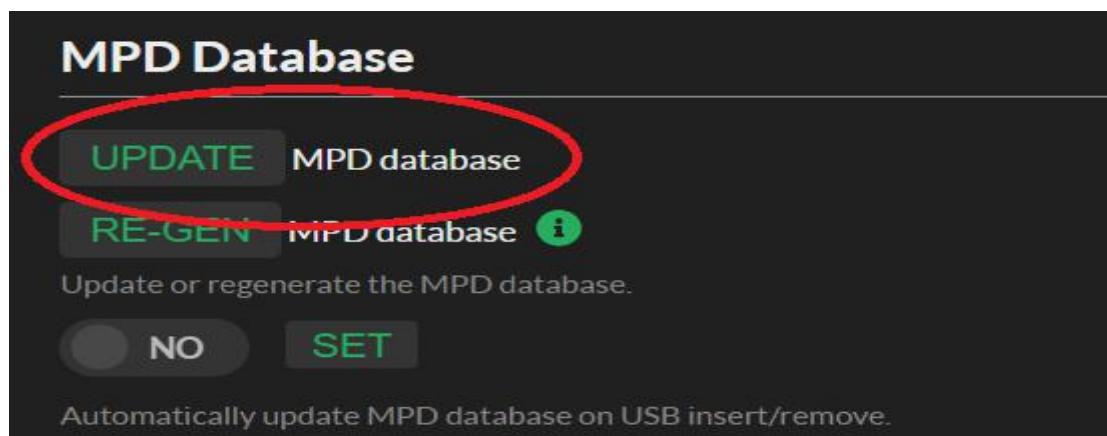


7) Now you can enjoy your music.



8) You can play music in the SD/MMC card, U disk which connected with Raspberry Pi. But Moodie may not automatic update disk default, so you need to update by yourself follow these steps.





## 4.7 MoOde Play DSD Music Files

Moode is very excellent in play DSD music files. If you want to play DSD music. In MPD settings, you need to set "DSD over PCM" to 'YES', and then it's very important to select the proper SoX resampling rate. Otherwise It doesn't work well for play DSD music.

The screenshot shows the Moode application interface. At the top, there is a header bar with the Moode logo and a search bar. Below the header, the main window has a dark background with several sections:

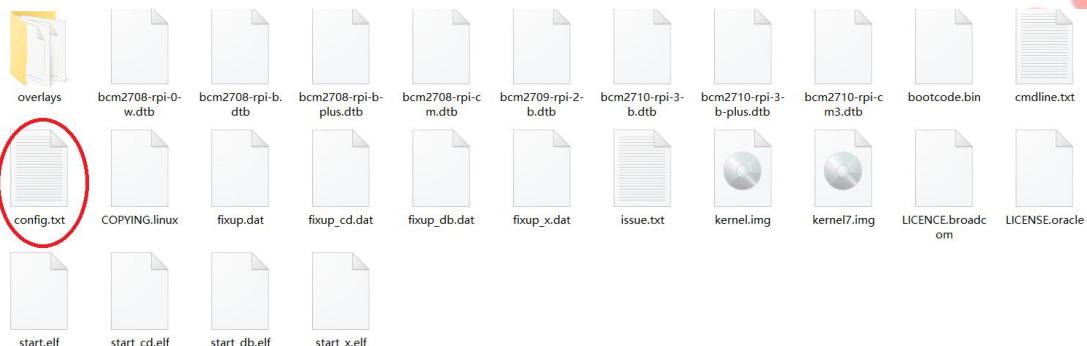
- MPD**: Shows the MPD version (0.20.20 Default) and a note about MPD 0.21.6. A red oval highlights the "EDIT OPTIONS" button.
- MPD Config**: A sub-menu with a "SAVE" button and a help icon. It includes sections for **Audio device** (Device type: I2S audio device, Volume control: Software), **SoX Resampling** (Sample rate: 32 bit / 96 kHz, Quality: Very high quality, Multithreading: No), and **DSD over PCM** (set to Yes). Red ovals highlight the "DSD over PCM" setting and the "SoX Resampling" section.
- Playback Controls**: Includes a circular progress bar showing 02:48 of 03:47, volume controls (69), and media controls (rewind, play/pause, forward).
- Album Art**: A large image of a woman's face from a vinyl record cover.
- Metadata**: Text indicating the file is DSD, the title is "B4.Million Years Ago", and the artist and album are unknown.

## 4.8 Raspbian System Setup

1) After load the image onto TF card, Open TF disk directory and Find the file named **config.txt**.

For more information about this file please refer

to :<https://www.raspberrypi.org/documentation/configuration/config-txt/>



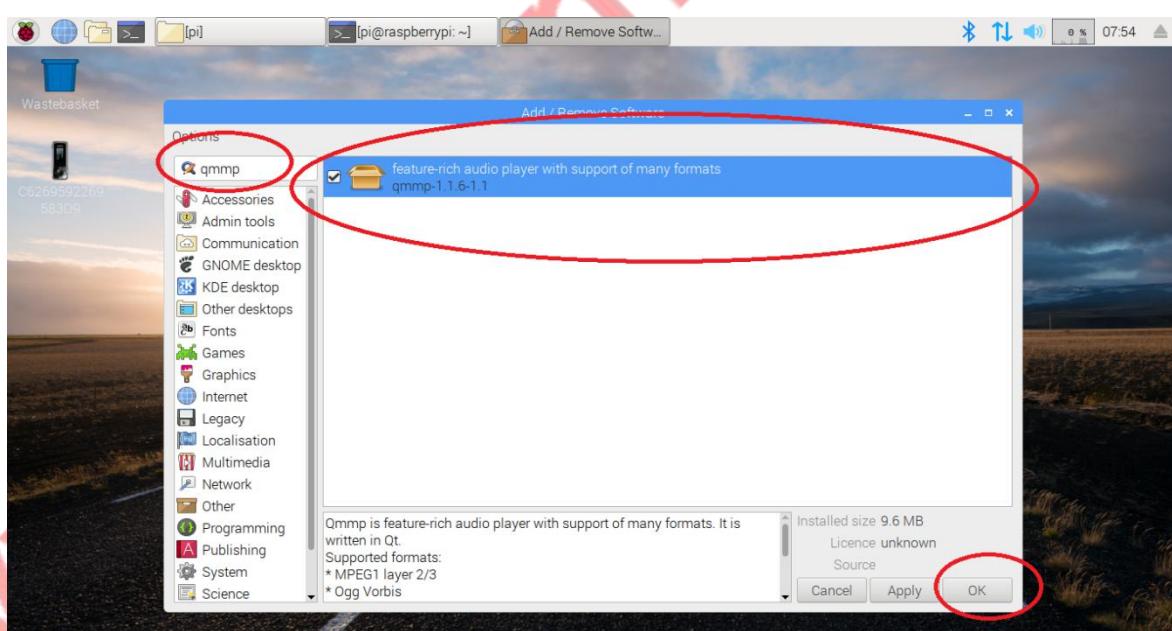
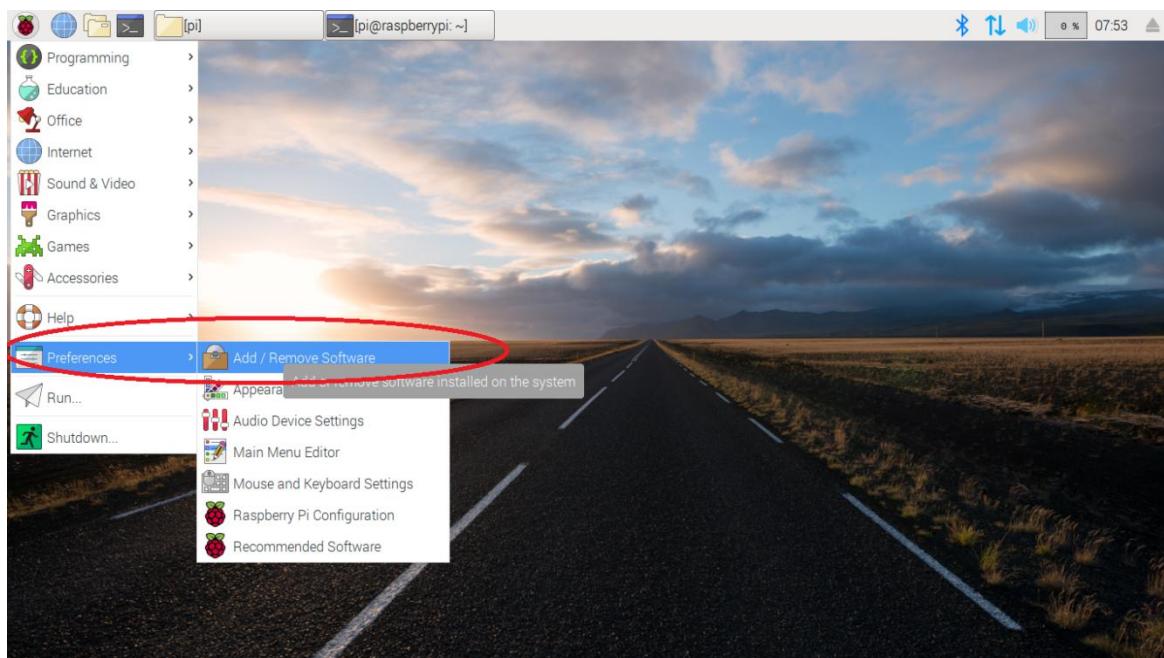
2) Append the following lines to the end of the file, enable the audio module. Notice the format

Otherwise it doesn't work.

```
dtoverlay=allo-boss-dac-pcm512x-audio  
# Uncomment some or all of these to enable the optional hardware interfaces  
#dtparam=i2c_arm=on  
#dtparam=i2s=on  
#dtparam=spi=on  
  
# Uncomment this to enable the lirc-rpi module  
#dtoverlay=lirc-rpi  
  
# Additional overlays and parameters are documented /boot/overlays/README  
# Enable audio (loads snd_bcm2835)  
dtparam=audio=on  
  
dtoverlay=allo-boss-dac-pcm512x-audio
```

3) Insert the TF card with volumio image into the Raspberry pi then power on. Default user name is **pi**, and password is **raspberry**;

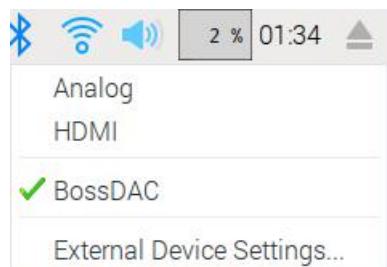
4) After login, Install the qmmp music player. Before that please make sure your raspberry already connected to the internet.



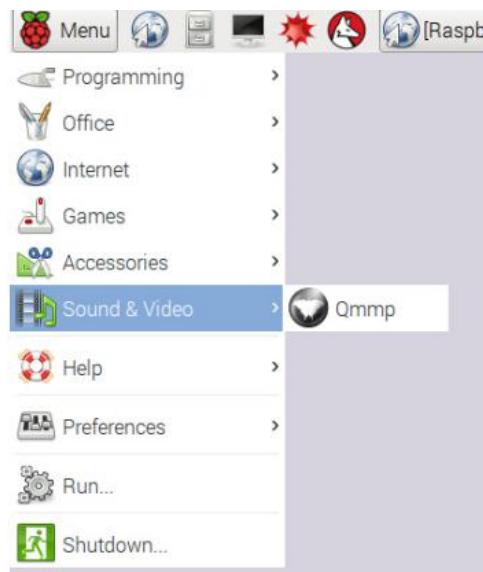
5) You can also install it by below command to setup qmmp.

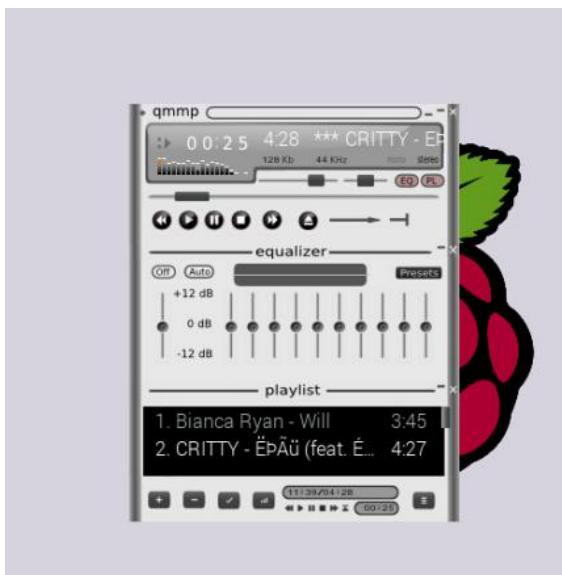
```
sudo apt-get install qmmp.
```

6)Right click the sound icon on the top right corner, set the raspberry pi audio output as 'BossDAC'. This is an essential step, otherwise you can't hear anything.



7)After the installation is,we can find the player under the menu bar. You can Install other linux music player as same step. Such as Rhythmbox, Amarok,VLC,Cmus and so on.





## 4.9 Raspbian Lite SetUp

### 1) Modify the config.txt

Open the config.txt in system.

```
sudo nano /boot/config.txt
```

```
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Fri Nov 12 10:15:35 2021 from 192.168.0.124

SSH is enabled and the default password for the 'pi' user has not been changed.
This is a security risk - please login as the 'pi' user and type 'passwd' to set
a new password.

pi@raspberrypi:~ $ sudo nano /boot/config.txt
```

Append the following lines to the end of the file, enable the audio module. Draw attention to the format , Otherwise it doesn't work. press "ctrl+o" and press "Enter" to save the file. Reboot the system.

```
dtoverlay=allo-boss-dac-pcm512x-audio
```

```
[cm4]
# Enable host mode on the 2711 built-in XHCI USB controller.
# This line should be removed if the legacy DWC2 controller is required
# (e.g. for USB device mode) or if USB support is not required.
otg_mode=1

[all]

[pi4]
# Run as fast as firmware / board allows
arm_boost=1

[all]
dtoverlay=allo-boss-dac-pcm512x-audio
```

```
[all]
dtoverlay=allo-boss-dac-pcm512x-audio

Save modified buffer?
Y Yes
N No          ^C Cancel
```

2) Check the DAC module

Type in the commands that are shown below. You can see the BossDAC, the **3** is the dac device number.

```
aplay -l  
cat /proc/asound/cards
```

```
pi@raspberrypi:~ $ aplay -l  
**** List of PLAYBACK Hardware Devices ****  
card 0: Headphones [bcm2835 Headphones], device 0: bcm2835 Headphones [bcm2835 Headphones]  
    Subdevices: 8/8  
    Subdevice #0: subdevice #0  
    Subdevice #1: subdevice #1  
    Subdevice #2: subdevice #2  
    Subdevice #3: subdevice #3  
    Subdevice #4: subdevice #4  
    Subdevice #5: subdevice #5  
    Subdevice #6: subdevice #6  
    Subdevice #7: subdevice #7  
card 1: vc4hdmi0 [vc4-hdmi-0], device 0: MAI PCM i2s-hifi-0 [MAI PCM i2s-hifi-0]  
    Subdevices: 1/1  
    Subdevice #0: subdevice #0  
card 2: vc4hdmi1 [vc4-hdmi-1], device 0: MAI PCM i2s-hifi-0 [MAI PCM i2s-hifi-0]  
    Subdevices: 1/1  
    Subdevice #0: subdevice #0  
card 3: BossDAC [BossDAC], device 0: Boss DAC HiFi [Master] pcm512x-hifi-0 [Boss DAC HiFi [Master] pcm512x-hifi-0]  
    Subdevices: 1/1  
    Subdevice #0: subdevice #0
```

```
pi@raspberrypi:~ $ cat /proc/asound/cards  
0 [Headphones ]: bcm2835_headpho - bcm2835 Headphones  
                    bcm2835 Headphones  
1 [vc4hdmi0 ]: vc4-hdmi - vc4-hdmi-0  
                    vc4-hdmi-0  
2 [vc4hdmi1 ]: vc4-hdmi - vc4-hdmi-1  
                    vc4-hdmi-1  
3 [BossDAC ]: BossDAC - BossDAC  
                    BossDAC  
pi@raspberrypi:~ $
```

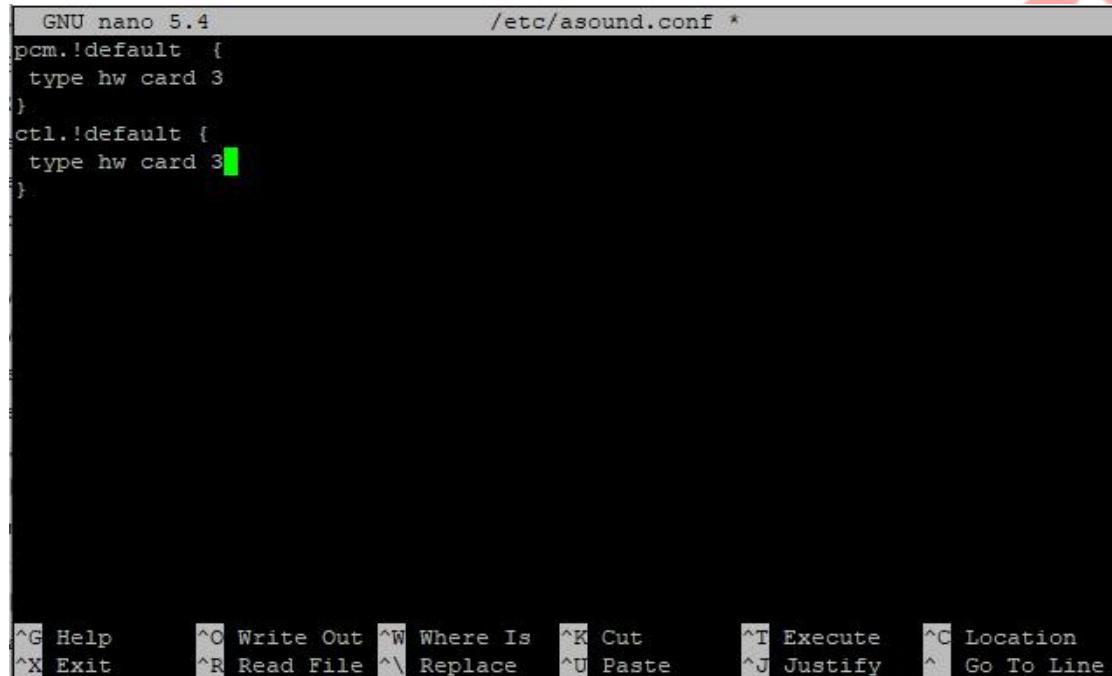
3) Set as default sound card.

Create /etc/asound.conf

```
sudo nano /etc/asound.conf
```

```
pi@raspberrypi:~ $ sudo nano /etc/asound.conf
```

Type in the following content and then press "ctrl+o" and press "Enter" to save the file. Reboot again. 3 is the DAC module device number.



```
GNU nano 5.4          /etc/asound.conf *
pcm.!default {
    type hw card 3
}
ctl.!default {
    type hw card 3
}

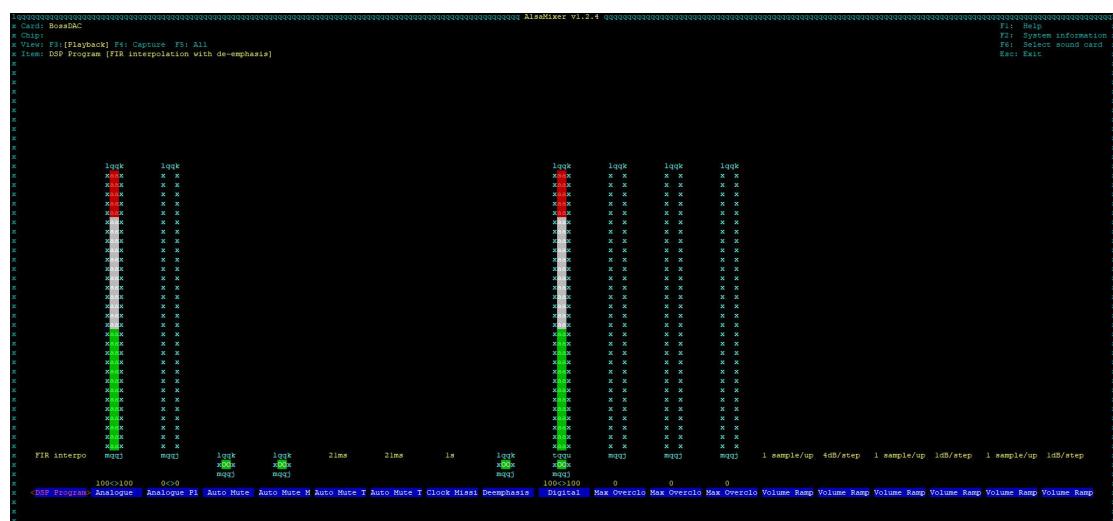
^G Help      ^O Write Out  ^W Where Is  ^K Cut      ^T Execute  ^C Location
^X Exit     ^R Read File  ^\ Replace   ^U Paste    ^J Justify  ^

```

#### 4) Alsamixer

Type in the commands that are shown below, you can see the alsamixer tool.

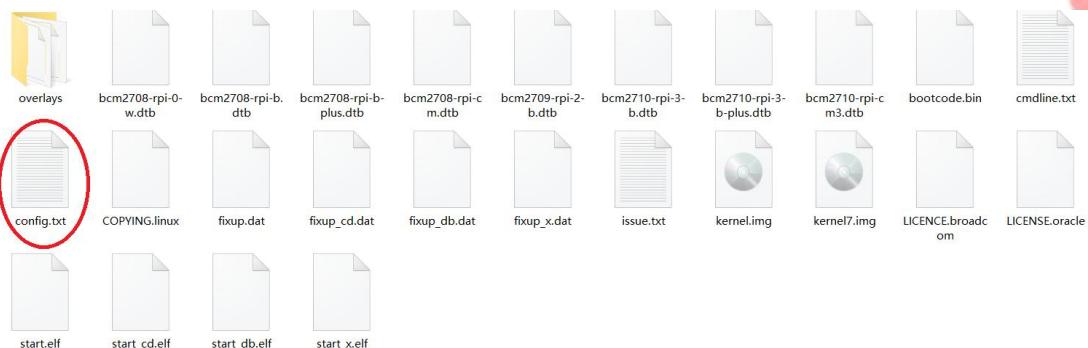
```
alsamixer
```



## 4.10 LibreELEC Setup

### 1) Modify the config.txt

After load the LibreELEC image into the TF card, Open TF disk directory on your computer and check the file named config.txt. For more information about this file please refer to :  
<https://www.raspberrypi.org/documentation/configuration/config-txt/>



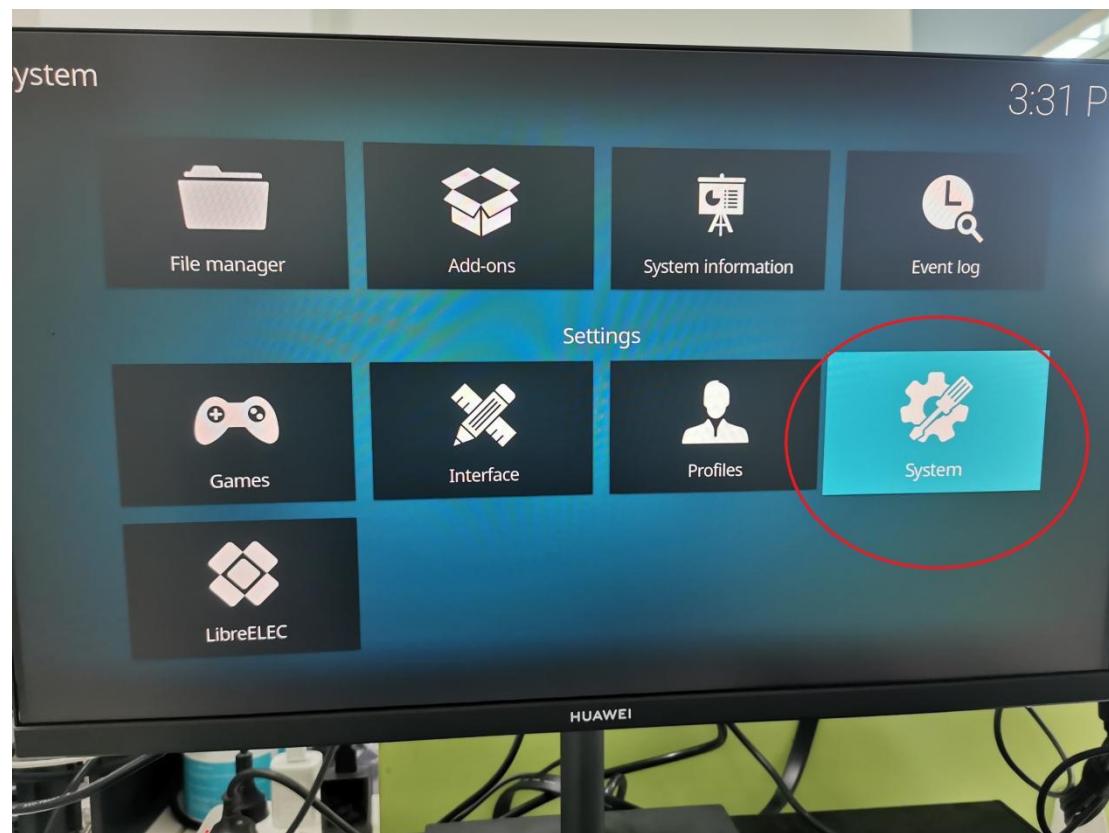
Append the following lines to the end of the file, enable the audio module. Draw attention to the format , Otherwise it doesn't work.

`dtoverlay=allo-boss-dac-pcm512x-audio`

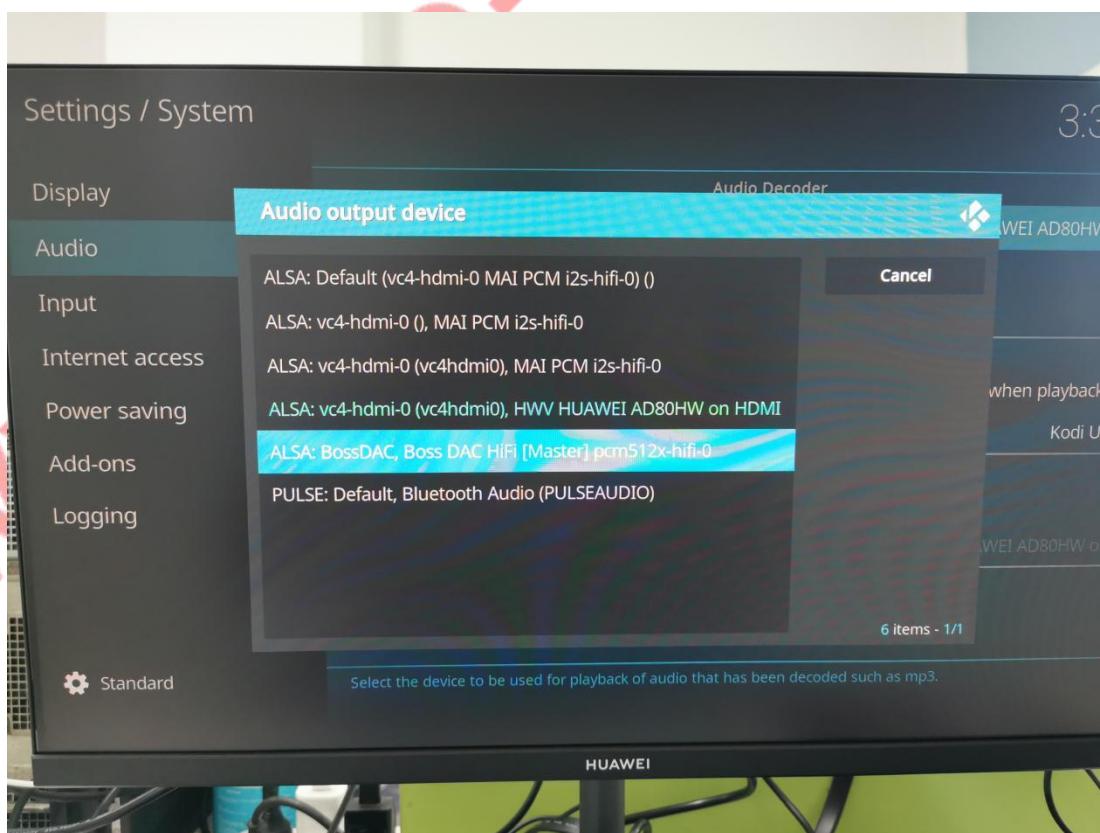
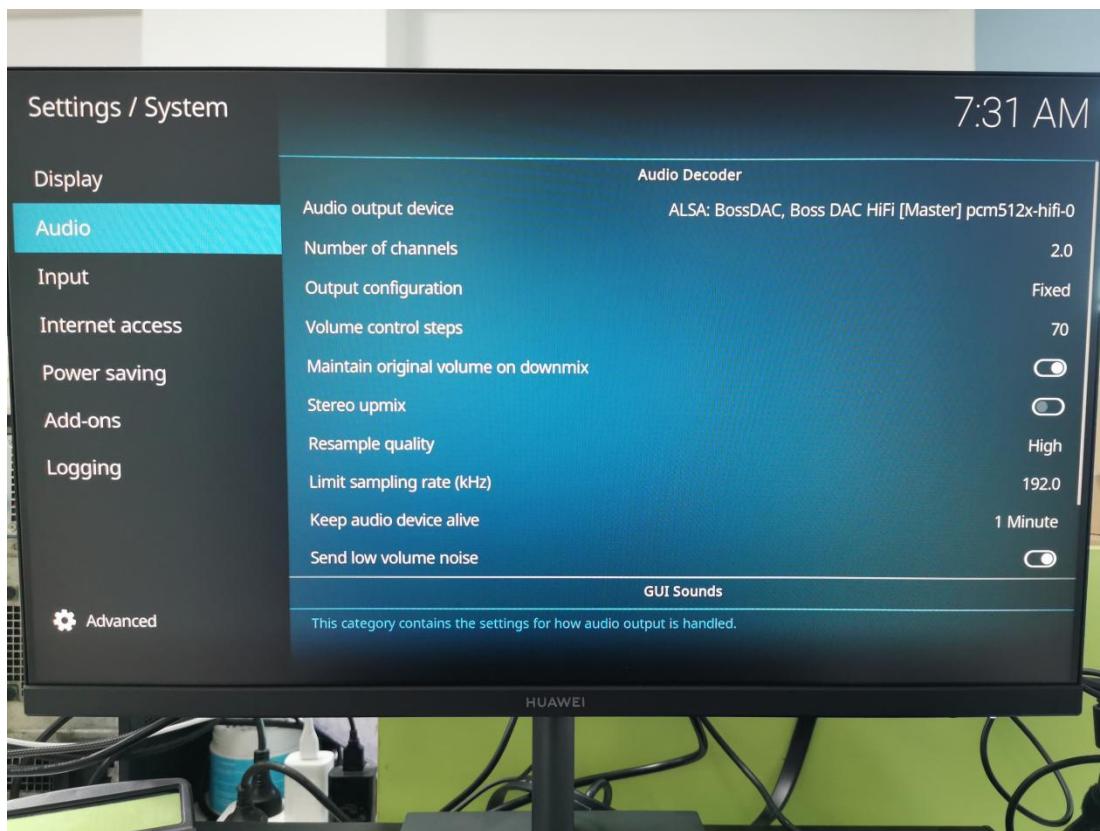
```
#####
# Include distribution specific config file if it exists.
#####
[all]
include distroconfig.txt

# uncomment to enable infrared remote receiver connected to GPIO 18
#dtoverlay= gpio-ir,gpio_pin=18
dtoverlay= allo-boss-dac-pcm512x-audio
```

2) Open the system page on LibreELEC



3) Set the Audio output device as BossDAC.



## 4.11 OSMC Setup

1) Insert the TF card with OSMC image into the Raspberry pi, and then connect a HDMI Display, Finally power on it. You will see the install GUI.



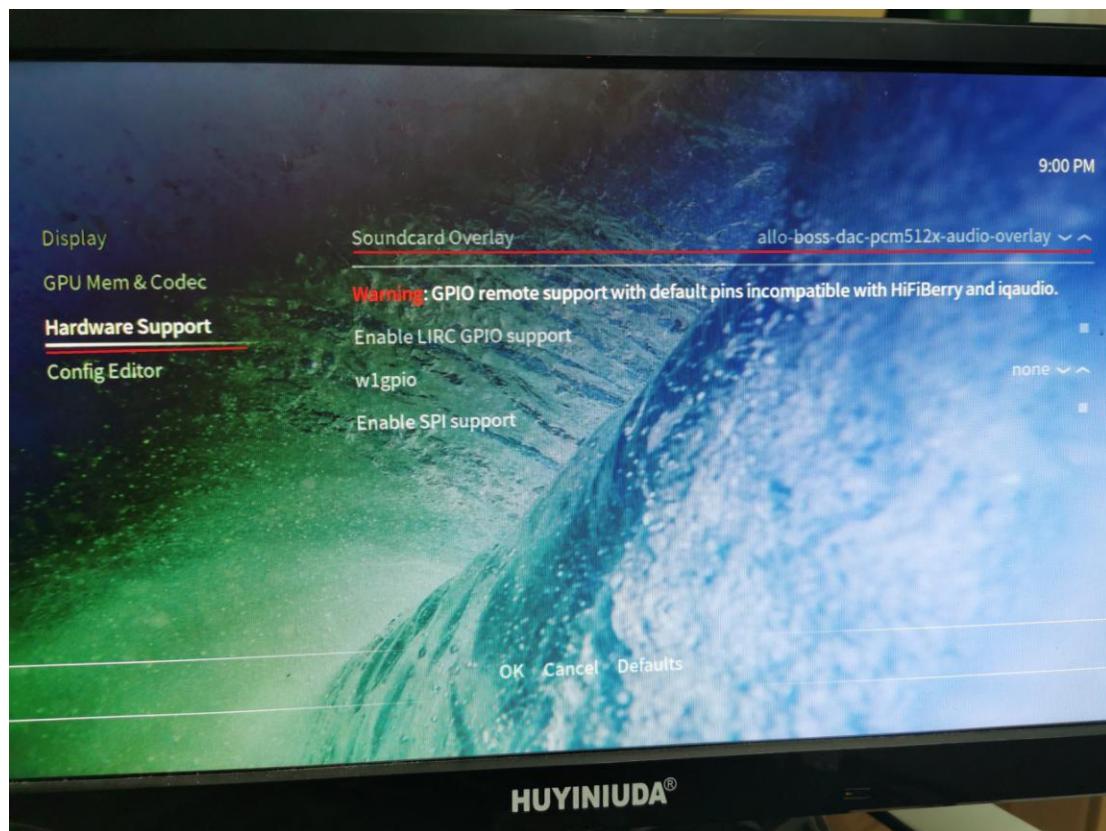
2) After some basic setup you will go to the home page.



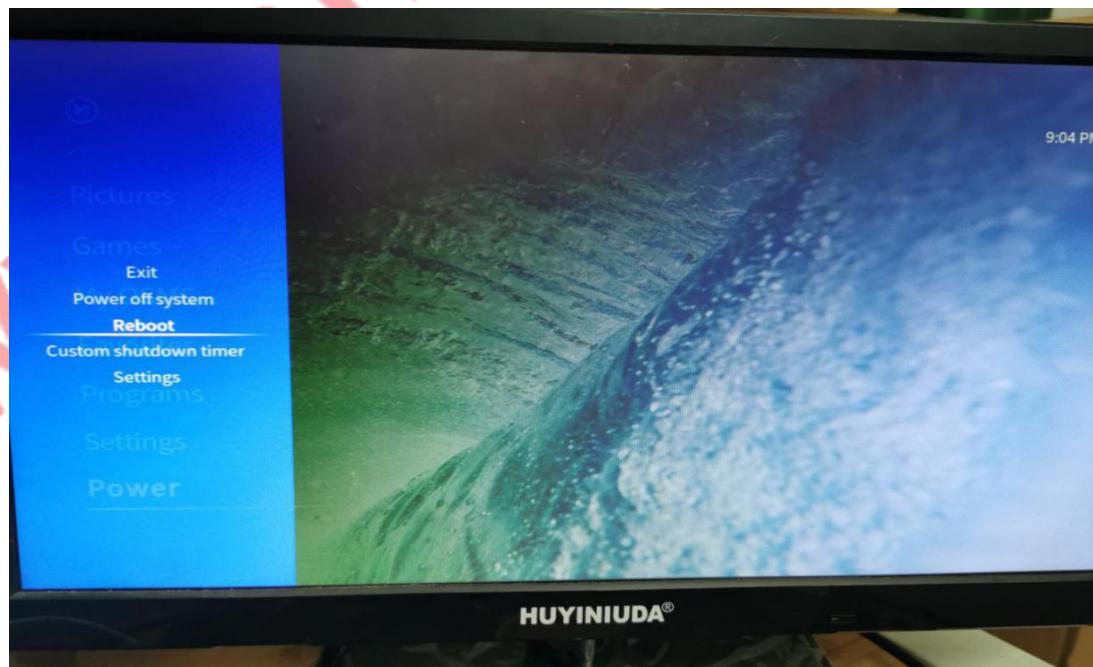
5) Click 'My OSMC' → 'Pi Config'.



- 6) Click 'Hardware Support', set Soundcard Overlay 'all-boss-dac-pcm512x-audio-overlay'. Do not enable any other options.



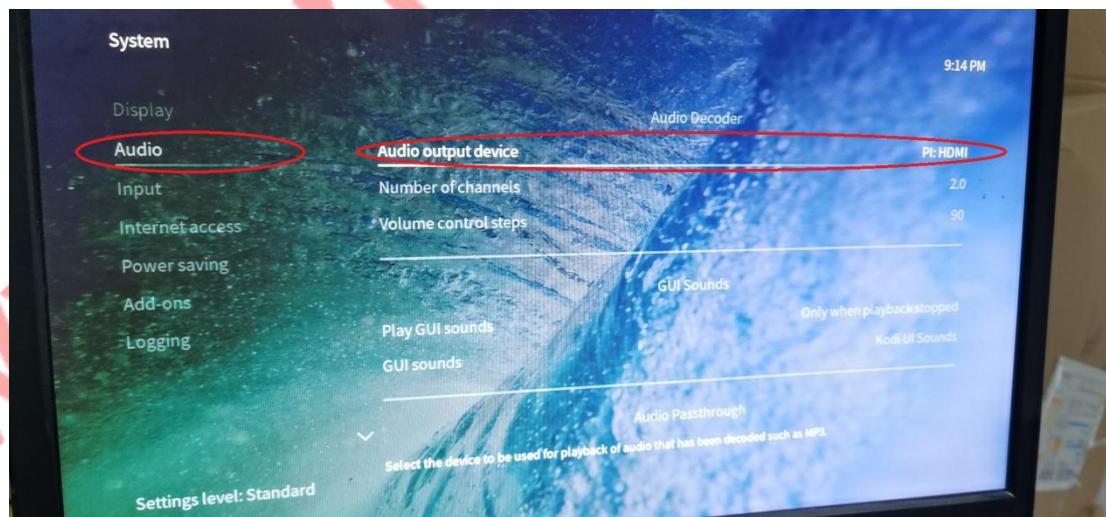
- 7) Back to home page. Click 'Power' → 'Reboot'



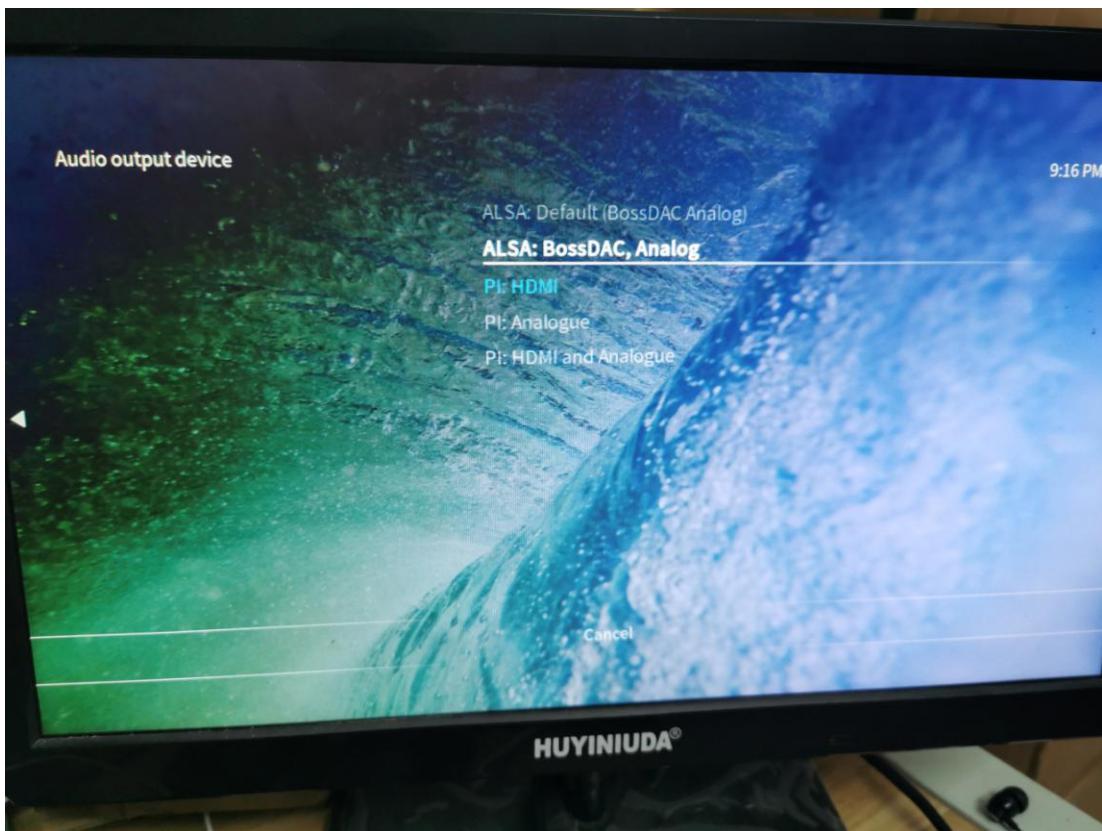
8) After restart. Click 'Settings' → 'System'



9) Click 'Audio' → 'Audio output device'.



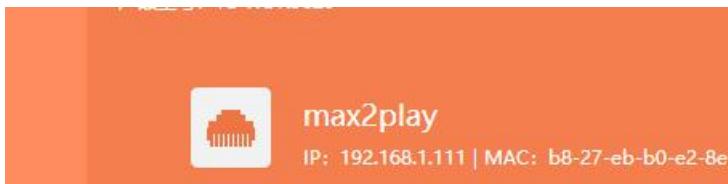
- 10) Choose Audio output device as 'BossDAC, Analog'. And then reboot again.



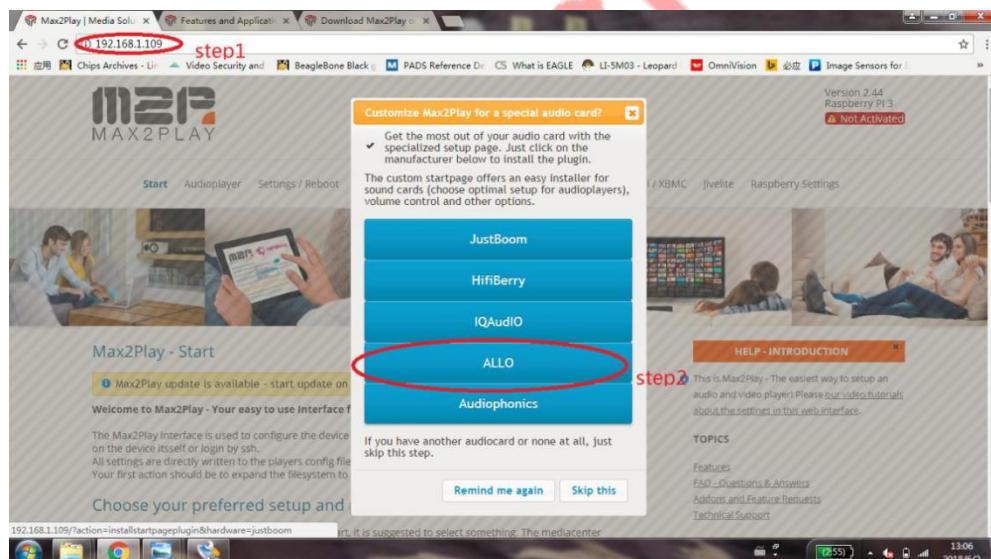
- 11) After that, The setting has been completed. you can hear the click voice of the mouse, and you can listen to music ,watch movie and play game normally.

## 4.12 Max2player

1) Insert the TF card with Max2player image into the Raspberry pi, and then connect to your router by LAN cable, Finally power on. Make sure your Raspberry Pi , Desktop (mobile phones, laptop, pad and so on) are in the same local area network(LAN). Get the IP address of Raspberry PI through check up the router or use some IP checker tools.



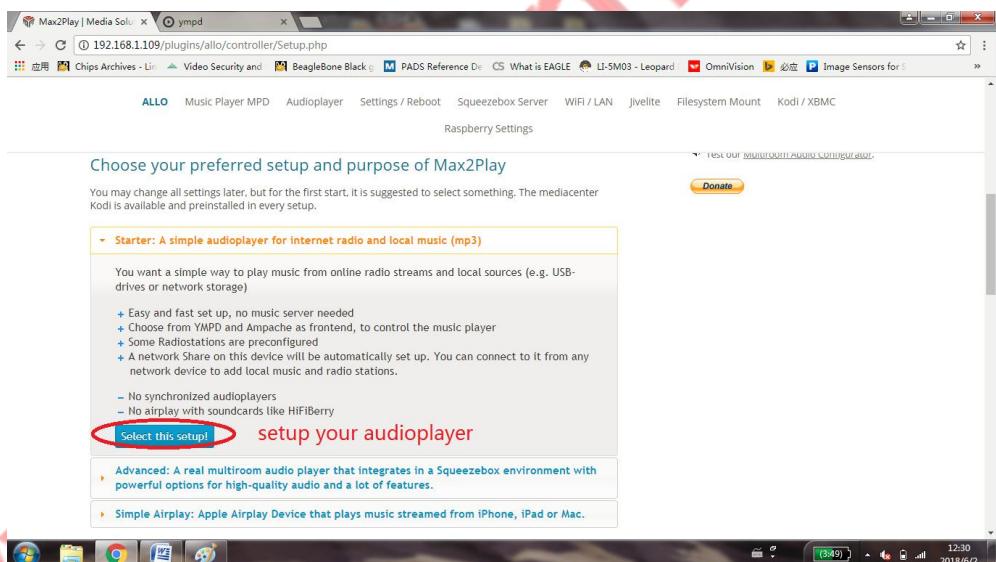
2) Choose the Card option as 'Allo'.



3) Setup the audio card type as below, then save and reboot the system.



4) Setup your audio player.





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The screenshot shows the Max2Play web interface with the URL <http://192.168.1.109/plugins/mpd/contrary3.php>. The page title is "Music Player (MPD) Setup". A red circle highlights the "Music Player MPD" link in the top navigation bar. Below it, a red circle highlights the "Open Webinterface to play music (YMPD)" button. The status message "Status: Music Player MPD is running with processID 4656" is displayed. The right side of the screen shows a "HELP - MUSIC PLAYER" section with links for connecting a USB drive, accessing storage, and accessing network storage. The bottom right corner shows a Linux desktop environment with a terminal window open.

## 5) Add music file

The screenshot shows the Max2Play web interface with the URL <http://192.168.1.109:8081/#/browse/0/USB>. The page title is "Browse database: USB". A red circle highlights the "Browse database" link in the top navigation bar. Below it, a red circle highlights the "root / USB" folder entry in the tree view. The main area displays a list of songs from the "SummerThing!" album, including "Afrojack" and "5月天 - 突然好想你.mp3". On the right, there is a sidebar with playback controls: Random, Consume, Single, Repeat, Update DB, Clear queue, and Notifications. The bottom right corner shows a Linux desktop environment with a terminal window open.



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Max2Play | Media S... 192.168.1.109 Features and Application Download Max2Play

step1

step2

step3

Queue

▶ Love In An Elevator

Little South Of Sanity Aerosmith

0:13 / 5:23

#	Title	Duration
1	Love In An Elevator	5:23
2	Love In An Elevator	5:23
3	SummerThing!	3:56

Random

Consume

Single

Repeat

Update DB

Clear queue

Notifications

## 6) Note

By default Max2play License is not activated . not all functions available!

Active your license:

Max2Play | Media S... 192.168.1.109/plugins/max2play\_settings/controller/Basic.php

ALLO Music Player MPD Audioplayer Settings / Reboot Squeezebox Server WiFi / LAN jivefile Filesystem Mount Kodi / XBMC

Version 2.44 Raspbian Pi 3

Not Activated

step1

Basic settings for Max2Play

Max2Play License is not activated. Not all functions available!

Playername max2play

Address activation code Not Activated

Language english Europe/Berlin

Autostart Desktop Network Lookup Donate Button Help on Database

HELP - BASIC SETTINGS

Use this page to change the devicename, update Max2Play to the latest version, expand the filesystem on a new installation and install new addons.

To install and activate a new addon on the bottom of this page, you have to take 2 steps: first install the addon and second enable it.

Health Checker

Internet: Connected CPU Load: 0.29 SD Card Usage: 29% Temp CPU: 56.9 Power Supply: OK

## 5. Pops and Crackles Solutions

Some customers said that there are some pops and crackles when play music over our dac module, but no problem over with HDMI of Raspberry Pi. Please try below solutions.

### 5.1 Power Supply

Change a better 5V power supply. The of cheap power supply will greatly affect the quality of the sound that you hear. The battery pack is a better choice.



### 5.2 Hotspot

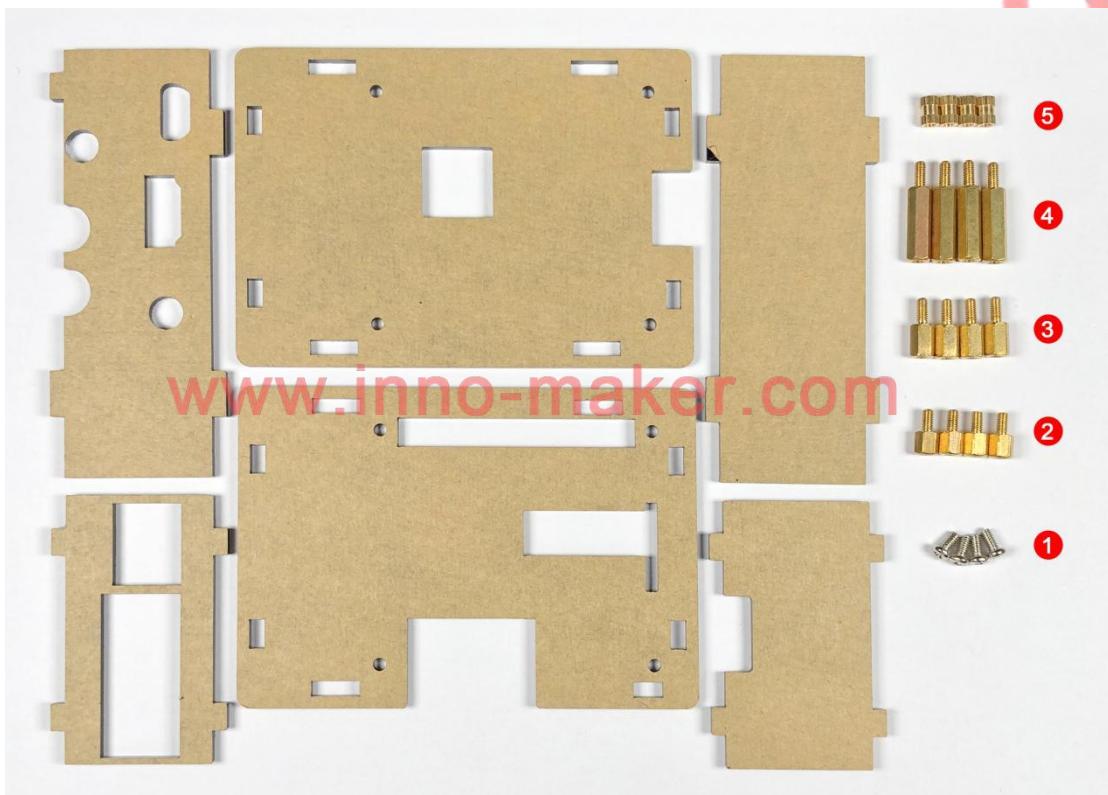
Some music system open the hotspot default. But the RCA and 3.5 mm jacks will be an antenna and received the interference signal from the WIFI module. So turn off the hotspot function of Raspberry Pi. Use the wired network will be a better choice.

## 6. DAC CASE ASSEMBLY

### 1) Unpack it.

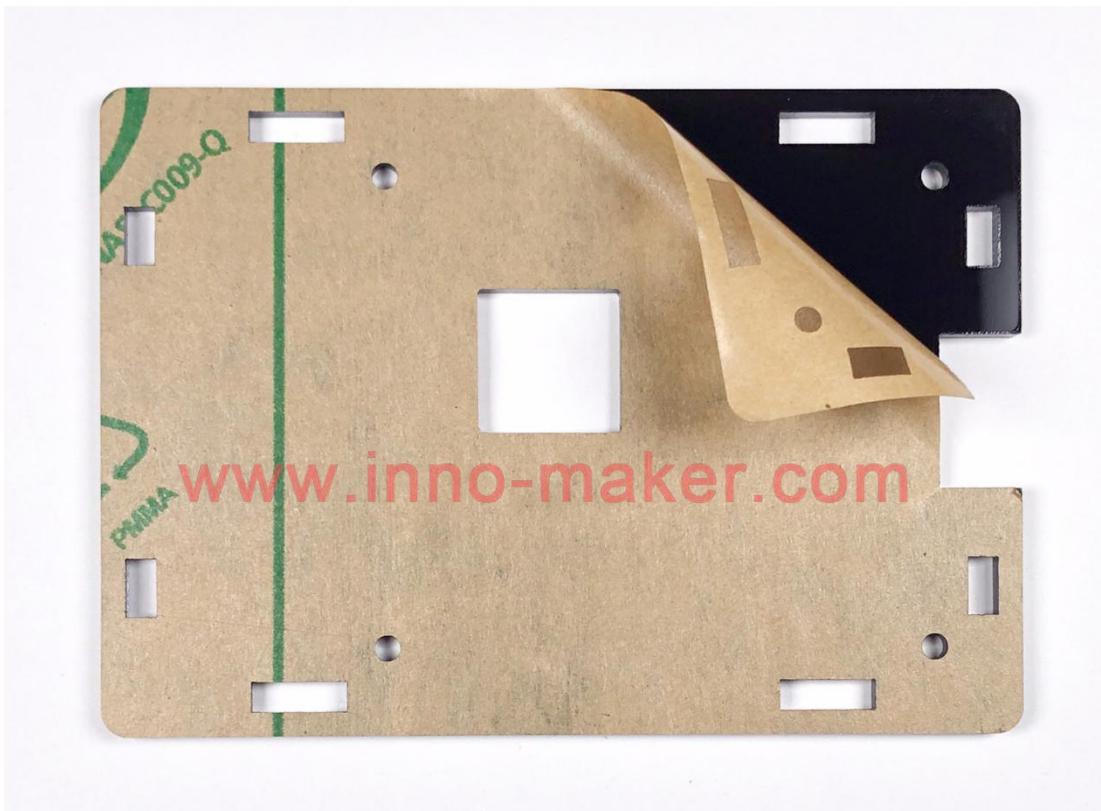
Package contain :

1. 6 pcs acrylic plate
2. 5 groups of screw
3. 1 screwdriver

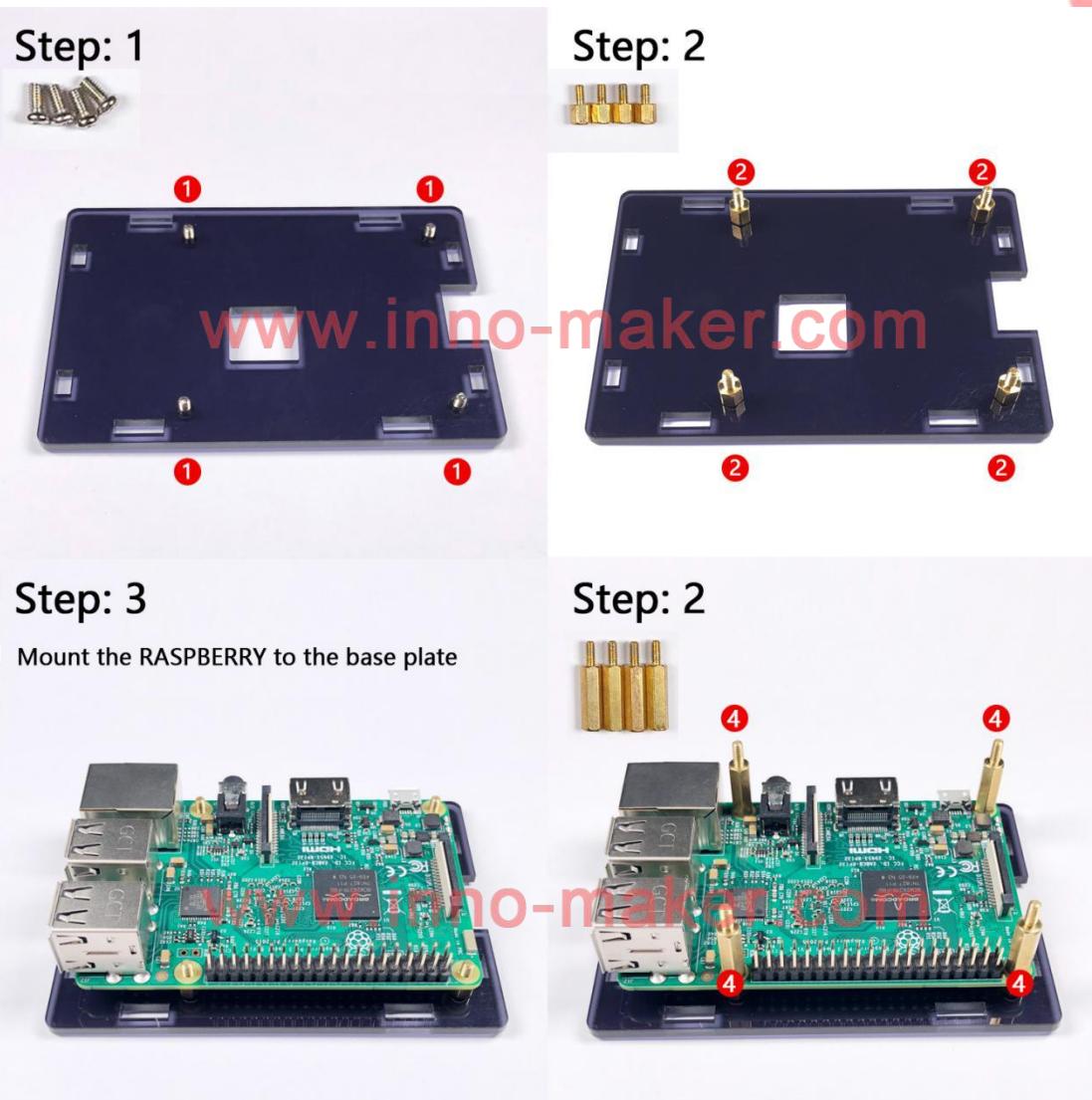


**2) Peel the protection film**

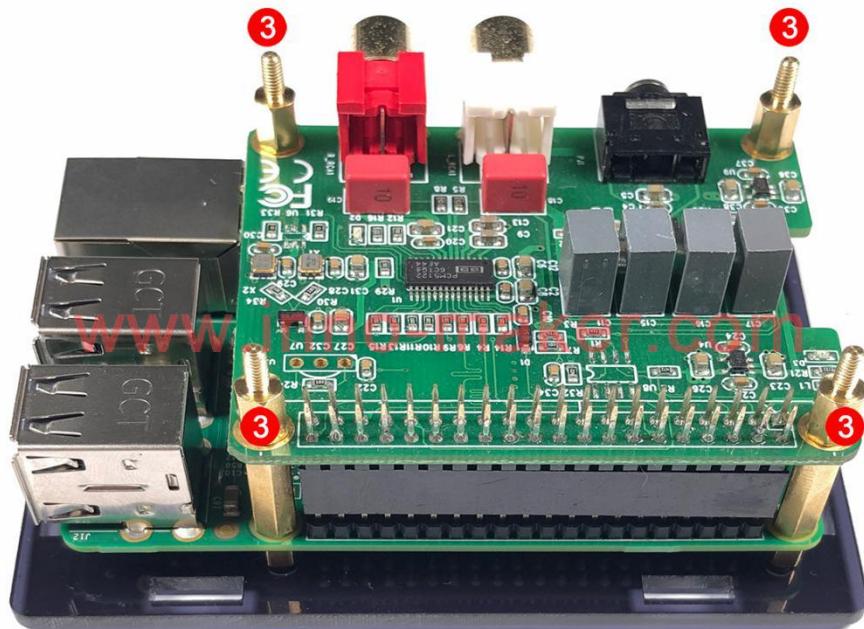
There is a protection film on both sides of all acrylic plate. You need to peel it off before assembling the case.



3) Mount the RASPBERRY to the base plate. Please pay attention to the group number.



4) Plug the DAC module into the 40 pin GPIO head.



5) Add two long side plates.



6) Add two short side plates.



7) Add top plate and screw down.

