## Audiophile audio music playback on Raspberry Pi with DAC Equipment's

1. Raspberry Pi B or B+



## 2. DAC I2C

Durio Sound Basic from www.gravitechthai.com [https://www.gravitechthai.com/product\_detail.php?d=1287] at price 50\$. Durio Sound adds a 24bit 192kHz ultimate sound quality with the lowest possible distortion.

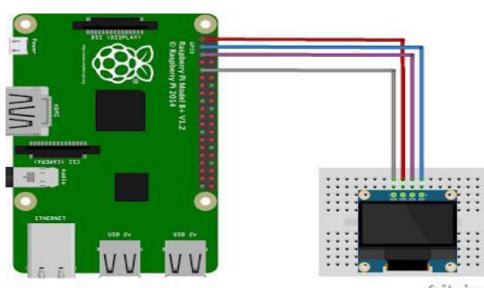


OLED 128x64 I2C White from www.gravitechthai.com [https://www.gravitechthai.com/product\_detail.php?d=1938] at price 10\$.



How to change Raspberry Pi to ultimate sound.

- Download moOde audio player from www.moodeaudio.org and write to SD Card
  - a) insert boot SD card or USB drive
  - b) connect USB or I2S audio device
  - c) connect USB storage devices
  - Ethernet mode
  - a) insert ethernet cable
  - b) power on
  - c) http://moode
  - Access Point (AP) mode
  - a) insert WiFi adapter that supports AP mode
  - b) power on
  - c) join network SSID=Moode, pwd=moodeaudio
  - d) http://moode.local
- 2. Wiring





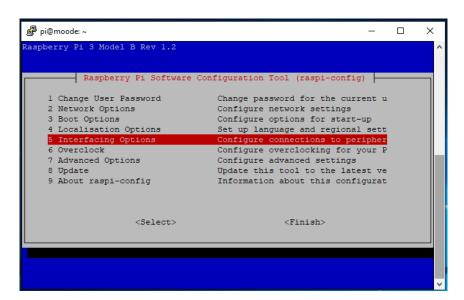


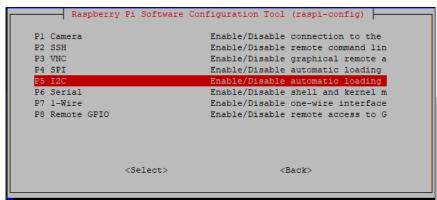
- 3. **Case**
- 4. Assembly
- 5. Setup (using putty)

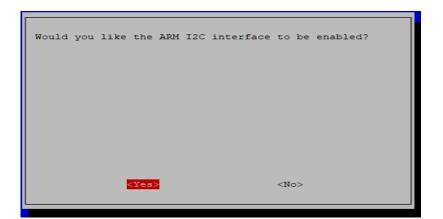
ssh login with user pi and password moodeaudio

sudo apt-get update

sudo raspi-config







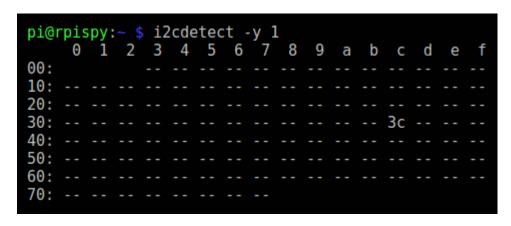
sudo apt-get install build-essential python-pip python-dev python-smbus git python-imaging python-mpd

sudo apt-get install -y python-dev python3-dev

sudo apt-get install -y python-imaging python-smbus i2c-tools

i2cdetect -y 1

(It will show you the address of oled display something like in image below)



git clone https://github.com/adafruit/Adafruit\_Python\_GPIO.git

cd Adafruit\_Python\_GPIO

sudo python setup.py install

cd ..

git clone https://github.com/adafruit/Adafruit\_Python\_SSD1306.git

cd Adafruit\_Python\_SSD1306

sudo python setup.py install

cd ..

git clone https://github.com/naisema/MoodeAudio-OLED.git

## 6. **UI**

## Open Moode in web browser and navigate as shown

menu -> Configure -> System -> Local Services -> LCD update engine fill full path of python script.

/home/pi/MoodeAudio-OLED/moode-oled.py

On button and apply SET

