

Music Player

<https://chrismolloy.com/p201.php>

Mopidy: <https://mopidy.com/>

Pimoroni Pirate Audio Headphone AMP:

<https://shop.pimoroni.com/products/pirate-audio-headphone-amp> Line Out:

<https://shop.pimoroni.com/products/pirate-audio-line-out> Speaker:

<https://shop.pimoroni.com/products/pirate-audio-mini-speaker>

Pimoroni Pirate Audio Case: <https://www.thingiverse.com/thing:4087948>

Alternative case ideas: <https://www.yeggi.com/q/pimoroni+pirate+audio/>

Software install

Download Raspberry OS lite (Buster) <https://www.raspberrypi.org/downloads/raspberry-pi-os> Then flash using Balena Etcher or similar <https://www.balena.io/etcher/>

Note: `/etc/init.d/resize2fs_once` is triggered on first boot, then removes itself.

WiFi config: create `wpa_supplicant.conf` in `/boot`

```
ctrl_interface=DIR=/var/run/wpa_supplicant GROUP=netdev
update_config=1
country=<Insert 2 letter ISO 3166-1 country code here>

network={
  ssid="<Name of your wireless LAN>"
  psk="<Password for your wireless LAN>"
}
```

Enable SSH Server: create empty file `ssh` in boot folder

`/boot/config.txt`

```
#Set GPU memory to lowest value
gpu_mem=16

#Disable boot splash screen
disable_splash=1

#Configure Pimoroni Pirate audio DAC
dtoverlay=hifiberry-dac
gpio=25=op,dh

#Enable SPI for display of Pimoroni Pirate Audio
```

```
dtparam=spi=on

#Switch off onboard audio
dtparam=audio=off

# Turn off HDMI?
#hdmi_blanking=0 # HDMI Output will be blank when DPMS is triggered
#hdmi_blanking=1 # HDMI Output will be disabled when DPMS is triggered
hdmi_blanking=2 # HDMI Output will be disabled on boot and can be enabled
using the above listed commands.

[pi@]
# Disable the ACT LED on the Pi Zero only
dtparam=act_led_trigger=none
dtparam=act_led_activelow=on
```

Disable HDMI port on boot (power saving during headless operation) /usr/bin/tvservice -o (-p to re-enable) Add the line to /etc/rc.local to disable HDMI on boot.

Security. Default user pi with password raspberry
<https://www.raspberrypi.org/documentation/configuration/security.md>

Install git if not already installed:

```
sudo apt-get install git
```

<https://learn.pimoroni.com/tutorial/sandyj/getting-started-with-pirate-audio>

#This will install python3 pip,wheel and pirate audio modules #Then add mopidy apt sources and install mopidy including mopidy-spotify #Then install mopidy-iris web interface and Pirate Audio plugins #And create system service to autostart mopidy

```
cd /usr/src
sudo git clone https://github.com/pimoroni/pirate-audio
cd pirate-audio/mopidy
sudo ./install.sh
```

#Removing mopidy spotify plugin

```
sudo apt-get purge mopidy-spotify
sudo apt autoremove
```

#Display will show ip and default mopidy port :6680 for web interface. Iris web client needs to be selected

#Edit Mopidy config sudo vi /etc/mopidy/mopidy.conf

```
#file section change
media_dirs =
    /media/music
    /media/network
```

```
#add to http section
enabled = true
#port = 80 #issue with mopidy user and ports <1024
zeroconf = Mopidy HTTP server on $hostname:$port
default_app = iris

#change in audio section
mixer_volume = 20

#add iris section:
[iris]
enabled = true
country = GB
locale = en_GB
```

```
sudo mkdir /media/network
sudo mkdir /media/music
```

```
sudo apt-get upgrade
```

SMB mount the manual way (/etc/rc.local or /etc/fstab): #Note experiment with rsize=61440 option and/or use nounix mount option

```
sudo mount -t cifs -o
ro,username=media,password=media,uid=1000,gid=1000,vers=1.0,cache=none
//192.168.1.6/music/beets2 "/home/mopidy/F00/"
```

```
sudo vi /etc/fstab #add
```

```
//192.168.1.6/music /media/music/beets2 cifs
username=media,password=media,ro,vers=1.0,cache=none,icharset=utf8,noperm,f
ile_mode=0644,dir_mode=0755,users 0 0
```

```
mount /media/network
```

#Remove bluetooth daemon and support (not on pi zero)

```
sudo apt-get purge bluez bluez-firmware
```

```
sudo reboot
```

Other music player projects

Volumio (headless music player) <https://pimylifeup.com/raspberry-pi-volumio/>

Pi MusicBox (appears to be dead) <https://pimylifeup.com/raspberry-pi-music-player/>
<https://www.pimusicbox.com/>

From:

<http://wuff.dyndns.org/> - **Wulf's Various Things**

Permanent link:

http://wuff.dyndns.org/doku.php?id=raspberry-pi:music_player&rev=1603105089

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