

# Dietpi OS Installation & Basic Configuration

**SBC :** [Sparky SBC + USBridge](#)

**Audio Hardware :** USB DAC

## Dietpi + Allo GUI OS Features:

User friendly Web Interface to configure the system.

- Preinstalled with Audiophile software, such as Roon, O!MPD, NAA Daemon and Shairport-sync (AirPlay)
- Ready to Run. Preconfigured and pre-installed image (No SSH/Terminal setup required)
- Audiophile quality, all the optimizations and features of DietPi, 156MB RAM usage , RAMlog and more. Perfect for audio usage.

**Note:** Allo GUI version Dietpi Image loaded on the eMMC supplies along with USBridge.  
**Dietpi V154 (Debian stretch) onwards install Allo GUI**

The Following is the procedural steps to installation of [Roon bridge](#) on Dietpi.

**Step 1 :** Download The latest Dietpi image for [Sparky SBC](#) from the Dietpi official website.

Sparky SBC: [http://dietpi.com/downloads/images/DietPi\\_SparkySBC-armv7-\(Stretch\)\\_AlloGUI.7z](http://dietpi.com/downloads/images/DietPi_SparkySBC-armv7-(Stretch)_AlloGUI.7z)

**Step 2 :** Load the Downloaded image into an SD card of size preferably 8Gb or more.

Refer notes on <http://dietpi.com/phpbb/viewtopic.php?f=8&t=9#p9>  
<http://dietpi.com/phpbb/viewtopic.php?f=8&t=2317#p8868>

**Step 3 :** Plug the SD card into your device and turn it on.

- Wait for DietPi to complete the filesystem expansion (this will automatically reboot your device 2 times). Once completed, the login screen will appear

### **Login to DietPi**


username = root password = dietpi **\*terminal access only**

**Allo webgui access : Open Browser on Laptop/desktop-pc connected to same network**

Hostname access: <http://dietpi.local>

Or

IP access: <http://192.168.0.24> (replace IP to match SBC IP)



LOGIN


E-Mail Address

Password


☐ Remember Me


Login

Login Details:  
Username = admin@allo.com  
Password = allo




Allo Web Interface  
Sparky SBC (armv7l)

 Nov 10, 2017

 admin ▾

Software Options :




Status : ACTIVE

Freq : 44100 Hz

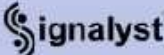
Bit : 16

View




Status : ACTIVE

View



Status : ACTIVE

View




Status : ACTIVE

SSID : DierPi-HotSpot

KEY : Distpihotspot

View




Status : ACTIVE

Freq : 44100 Hz


Bit : 16

View




Status : ACTIVE

View



Status : ACTIVE

View



Status : ACTIVE

Bit : 16

View

SYSTEM SETTINGS : ▼

IP :

Bash: Ifconfig: Command Not Found

Hostname :

DIETPI

Soundcard :

USB-DAC

View

## Web Interface Features:

### System Settings : View and Edit

- Change hostname → you can change the host name here (default dietpi)
- Networking configuration (DHCP/STATIC IP) → changing of network to dynamic/static. DHCP by default
- Soundcard configuration → Audio DAC configuration, USB dac by default.
- CPU governor → Used for CPU scaling.
- Swapfile size configuration → virtual memory configuration
- DietPi version /Update → Shows current version & Available updates
- Power control → reboot/poweroff option

SYSTEM STATUS : ▼

ALSA Output Stream Information :

View

NetData System Stats :

View

CPU Temperature :

55 °C

### System Status : Monitor:

ALSA output stream information → lists actual frequency and bit depth during playback

Access NetData web interface

CPU information → lists the CPU usage and CPU temperature

Memory usage → lists the ram usage

Storage usage → lists the used/available memory

### **MPD and O!MPD Settings :**

Service control → enable/disable and status

Access O!MPD interface → enable the access to OMPD

SOXR sampling output options → enable/disable, set quality and resampling

Output frequency/bit depth options → apply frequency and bit depth

Access : <http://dietpi.local/ompd> (use board IP in place dietpi.local)

username : admin password : admin

### **Roon Bridge Settings/Status :**

Service control → enable/disable and status

### **NAA Daemon (HQ player endpoint) Settings :**

Service control → enable/disable and status

### **WiFi HotSpot (Sparky SBC only, Allo.com WiFi dongle required) Options:**

Service control → enable/disable

Connect to available network using valid credentials

#### **\*\* How to enable wifi.**

*NB: We highly recommend ethernet connection for a stable audio streaming experience.*

To achieve a WiFi connection, you will need to access the terminal (either via SSH or locally using keyboard + monitor):

- Login with username = **root** , password = **dietpi**
- Sparky Only: Uninstall HotSpot using the command **dietpi-software uninstall 60**
- Run **dietpi-config**
- Select **Network Options: Adapters > WiFi**
- If a prompt appears, requesting WiFi to be enabled, please select **Ok**
- Select **WiFi** option again
- Select **Scan**, choose your SSID and follow the onscreen prompts to enter credentials

### **ShairPort-Sync (AirPlay) Settings:**

Service control → enable/disable and status

Output frequency/bit depth options : frequency and bit depth settings option.

(use bit depth 32 for working with 32 bit DAC)

### **GM Render Settings:**

Service control → enable/disable and status

### **Netdata Settings:**

Service control → enable/disable and status

Web interface access details

# ROON

You need to install **ROON (Control + Core + Output )\*\*** on a windows pc or laptop.

\*\* roon membership necessary to install and use.

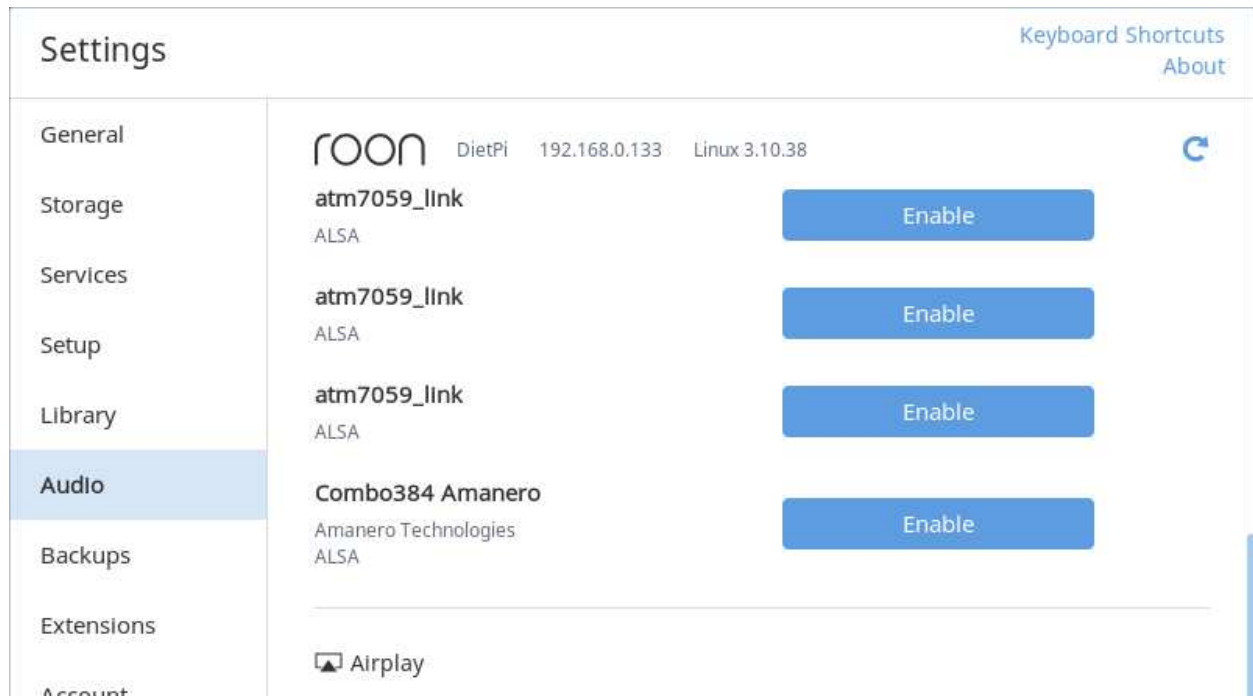
The detailed description of download procedure can be seen

[https://kb.roonlabs.com/Getting\\_Started](https://kb.roonlabs.com/Getting_Started)

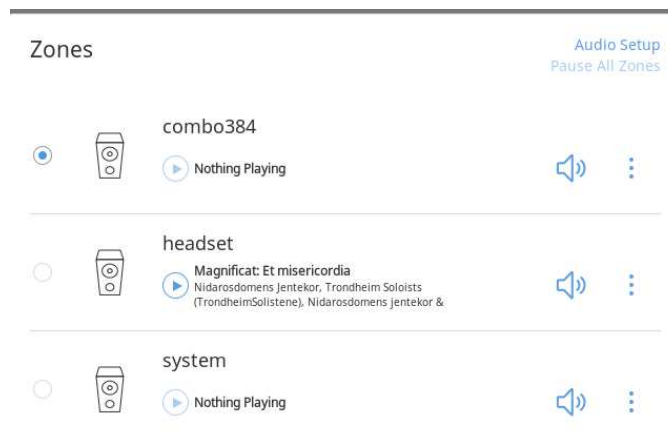
<https://roonlabs.com/downloads.html>

Open Roon application and Enable appropriate audio device listed.

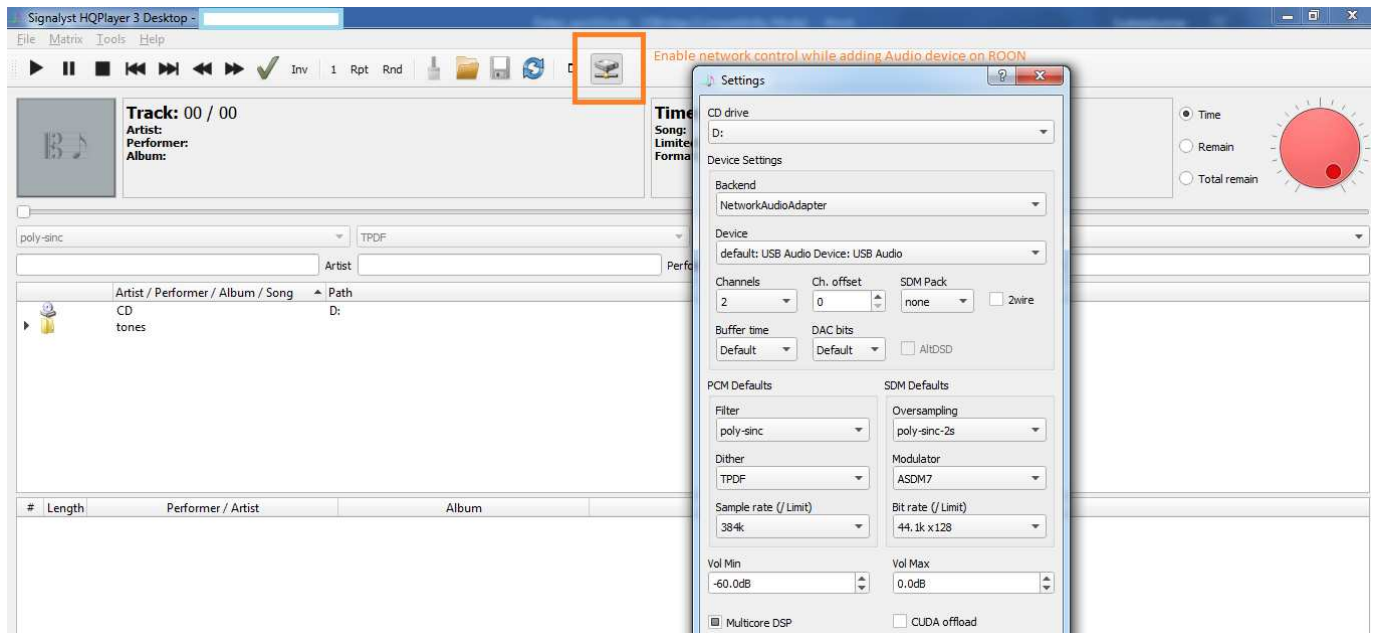
USB DAC



Enable the audio device , play the music.



## HQplayer:



## O!MPD

