# DietPi OS Installation & Basic Configuration for USBridge

**Product**: Sparky SBC + USB board
**Soundcard Name**: USB DAC

DietPi + Allo GUI OS Features:

User friendly Web Interface with icons 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 optimized. All the optimizations and features of DietPi, 156MB RAM usage, RAMlog and more.

**Note: This DietPi version is loaded on the eMMC supplied along with USBridge purchased from ALLO. DietPi V154 (Debian stretch) onwards install Allo GUI**

When you receive your unit, please follow the instructions on the quick installation guide.

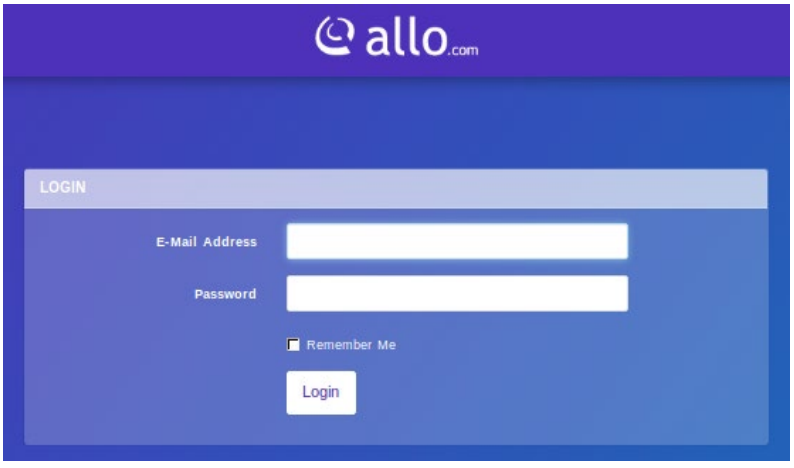
**Allo Web GUI Access: Open Browser on Laptop/desktop-pc connected to same network**

Hostname access: http://dietpi.local

Or

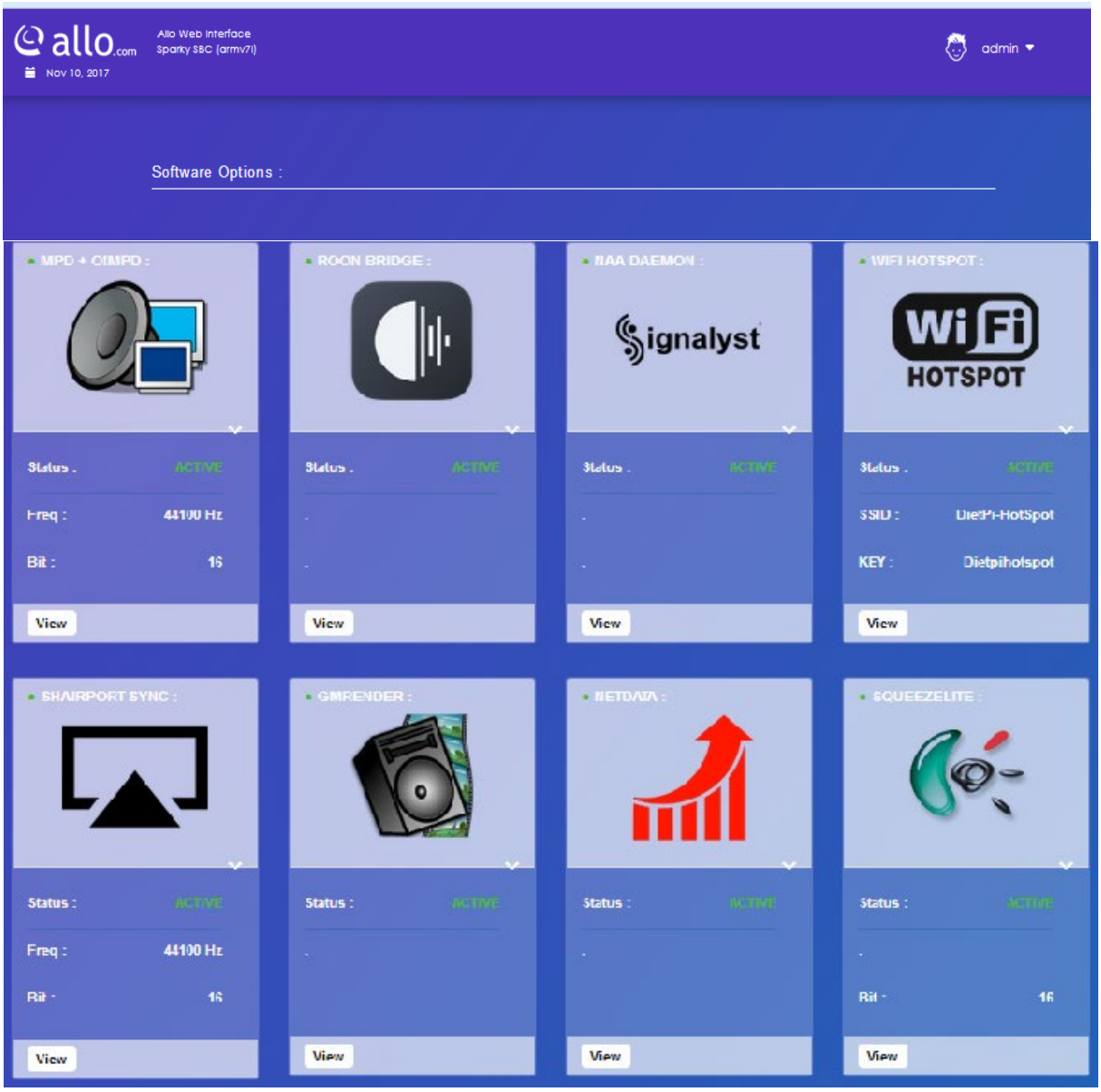
type the IP address of the unit in your browser.

**THE LOGIN SCREEN APPEARS:**




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

The HOME SCREEN APPEARS:



**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 / power off option

**<u>System Status: Monitor:</u>**

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 re-sampling
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
**Squeezelite Settings:**
Service control ’ enable/disable and status

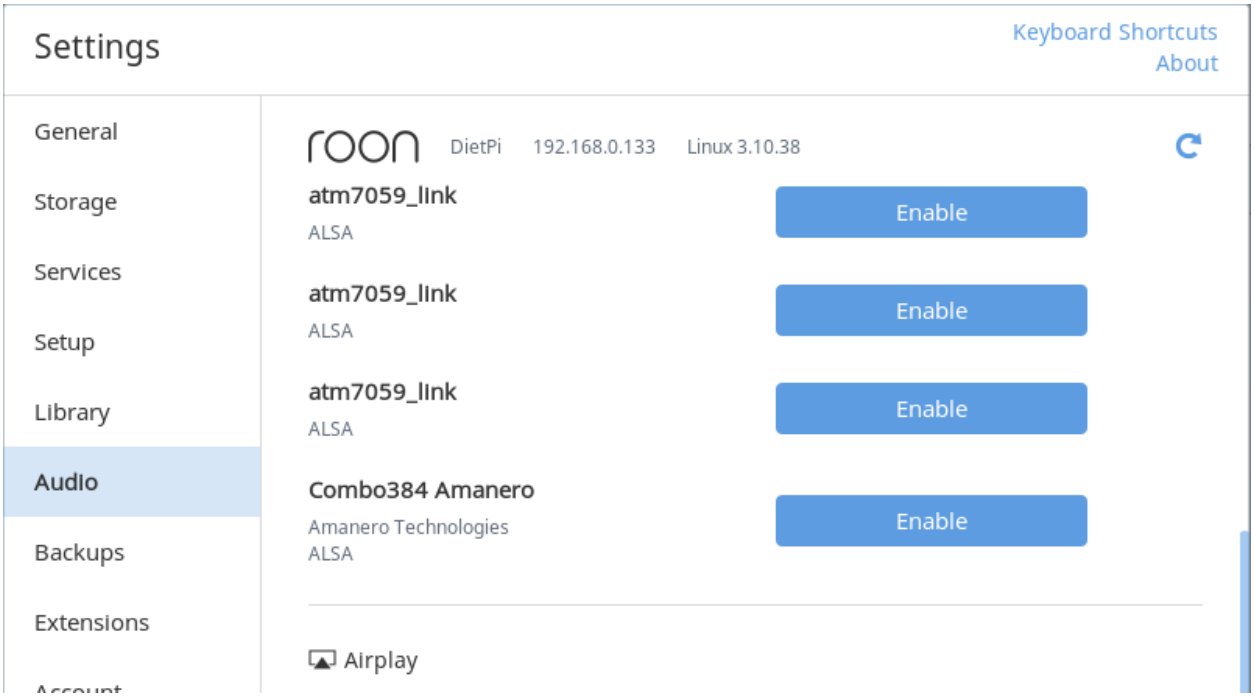
# ROON

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

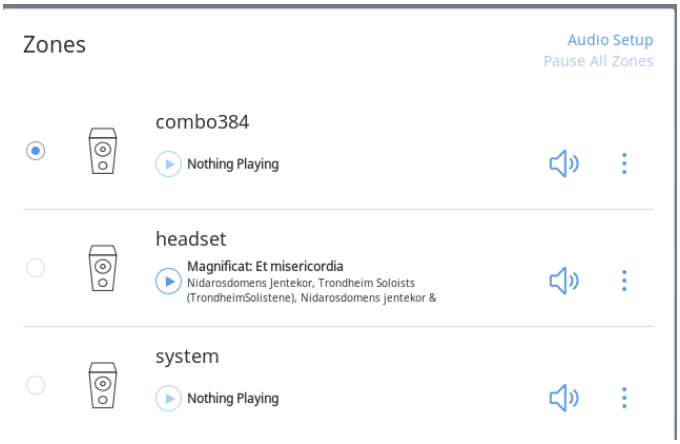
** roon membership necessary to install and use.

The detailed description of download procedure can be seen
https://kb.roonlabs.com/Getting_Started
https://roonlabs.com/downloads.html

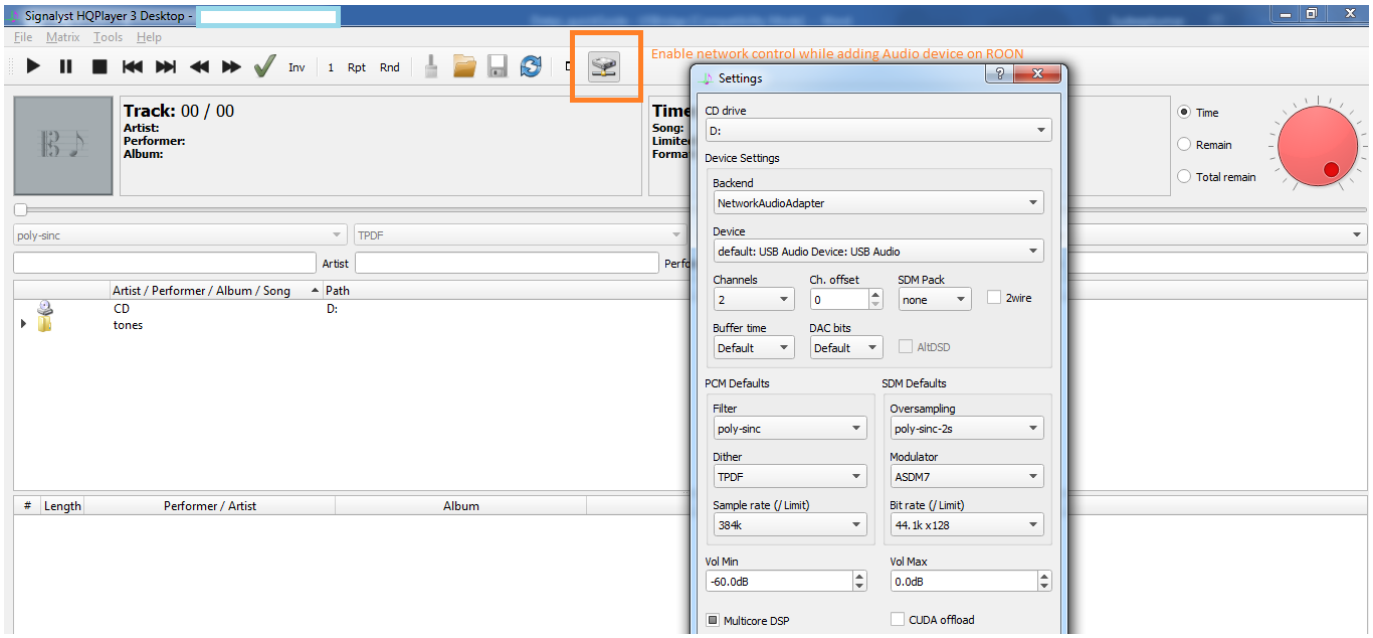
Open Roon application and Enable appropriate audio device listed.
USB DAC



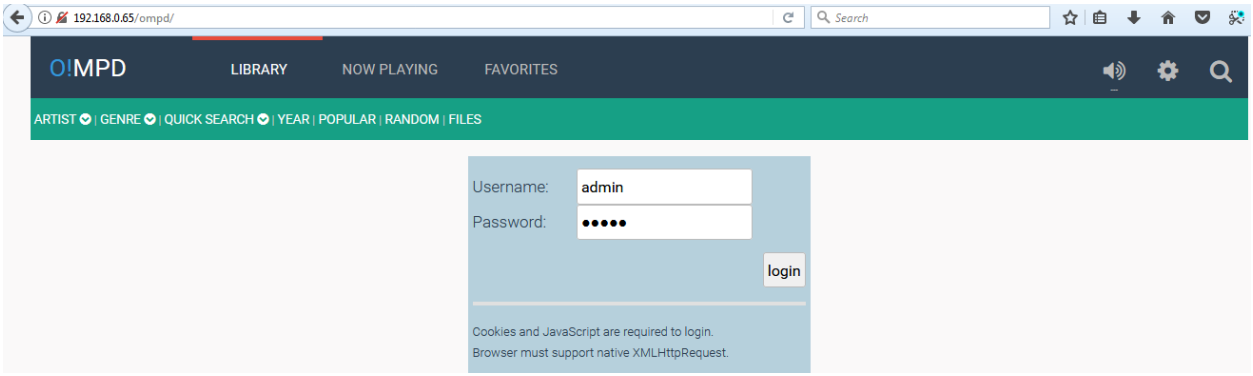
Enable the audio device, play the music.

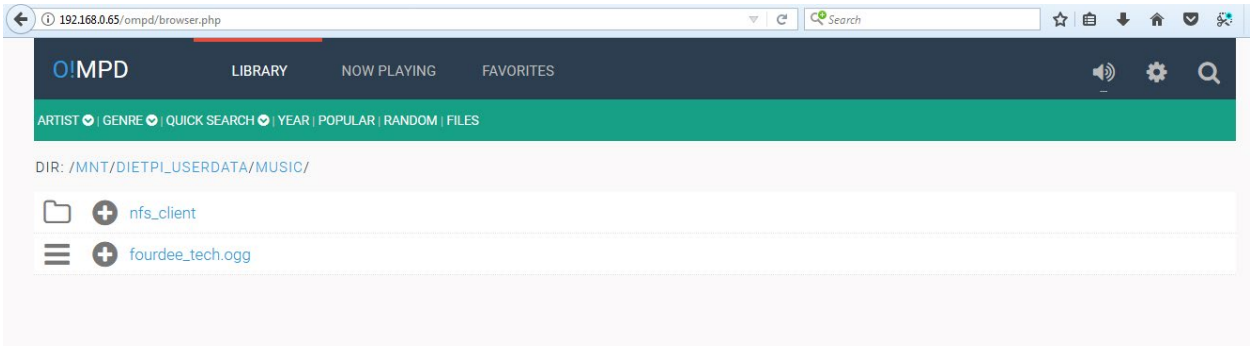



## HQplayer:



# O!MPD


192.168.0.65/ompd/
Search
O!MPD
LIBRARY
NOW PLAYING
FAVORITES
ARTIST | GENRE | QUICK SEARCH | YEAR | POPULAR | RANDOM | FILES
Username:
admin
Password:
login
Cookies and JavaScript are required to login.
Browser must support native XMLHttpRequest.


192.168.0.65/ompd/browser.php
Search
O!MPD
LIBRARY
NOW PLAYING
FAVORITES
ARTIST | GENRE | QUICK SEARCH | YEAR | POPULAR | RANDOM | FILES
DIR: /MNT/DIETPI_USERDATA/MUSIC/
nfs_client
fourdee_tech.ogg