SPARKY + USBridge + Dietpi Software
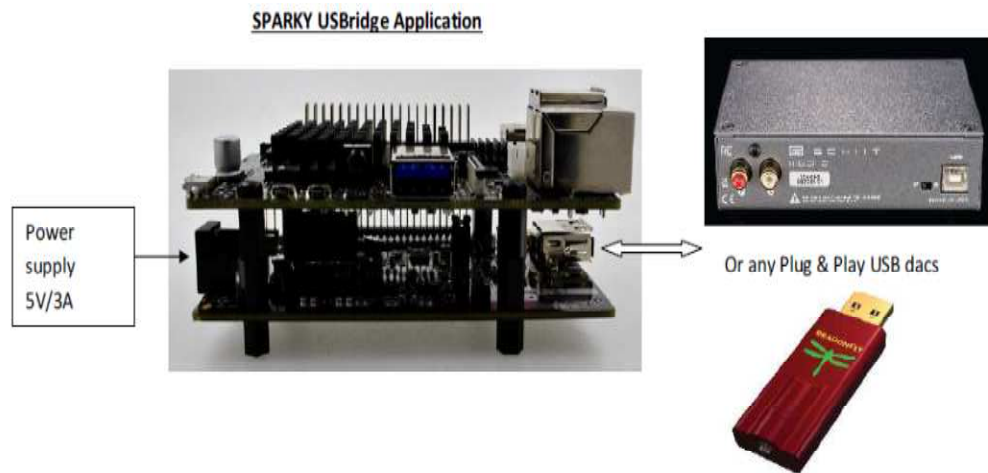

SPARKY USBridge Application

Power supply 5V/3A

Or any Plug & Play USB dacs

Terminal commands to list the USB devices connected on Sparky USB ports.

Can connect any USB plug &play devices on USBridge USB port for testing the port functionality.
  Example : USB dac , USB pendrive/HDD , USB key board, USB mouse.. etc

Plug USB DAC device on USBridge usb port and check details with below commands

List the connected usb devices   : # lsusb   ID will vary depends on USB devices.

list the available audio Devices : #aplay -l   *below screen shot example with Schiit-Modi 2

```
root@DietPi:~# lsusb
Bus 003 Device 003: ID 0d8c:0319 C-Media Electronics, Inc.
Bus 003 Device 002: ID 0424:2412 Standard Microsystems Corp.
Bus 003 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 004 Device 004: ID 1c4f:0002 SiGma Micro Keyboard TRACER Gamma Ivory
Bus 004 Device 003: ID 192f:0416 Avago Technologies, Pte. ADNS-5700 Optical Mouse Controller (3-button)
Bus 004 Device 002: ID 1a40:0101 Terminus Technology Inc. 4-Port HUB
Bus 004 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 002 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
root@DietPi:~# aplay -l
**** List of PLAYBACK Hardware Devices ****
card 0: atm7059link [atm7059_link], device 0: ATC2603C PCM atc2603c-dai-0 []
  Subdevices: 1/1
  Subdevice #0: subdevice #0
card 0: atm7059link [atm7059_link], device 1: HDMI PCM atm7059-hdmi-dai-1 []
  Subdevices: 1/1
  Subdevice #0: subdevice #0
card 0: atm7059link [atm7059_link], device 2: SPDIF PCM atm7059-spdif-dai-2 []
  Subdevices: 1/1
  Subdevice #0: subdevice #0
card 1: Device [USB Modi Device], device 0: USB Audio [USB Audio]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
root@DietPi:~#
```
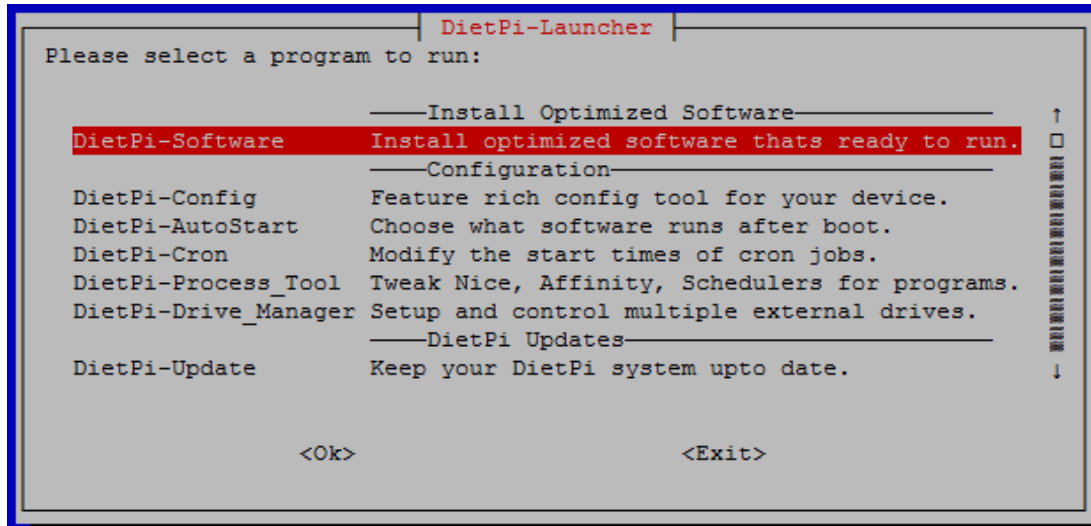
*First 3 devices are the default audio devices of Sparky SBC. Card 0 , devices 0,1,2 , card 1 device 0 is the **USB dac**
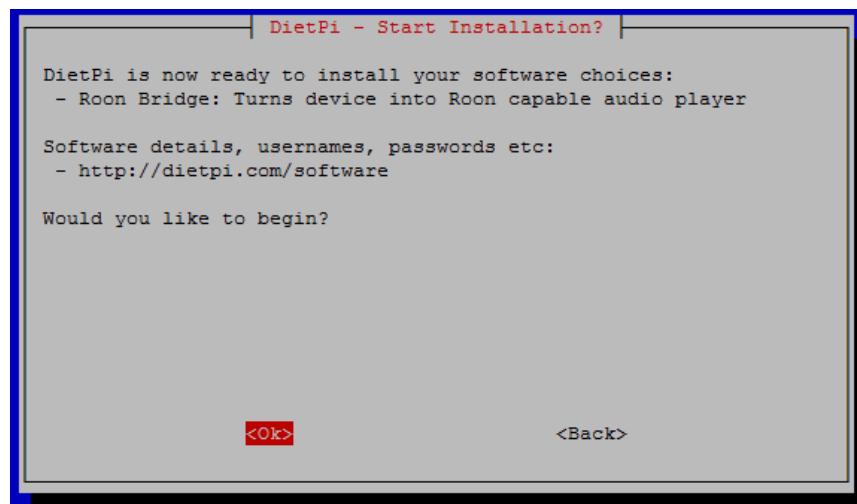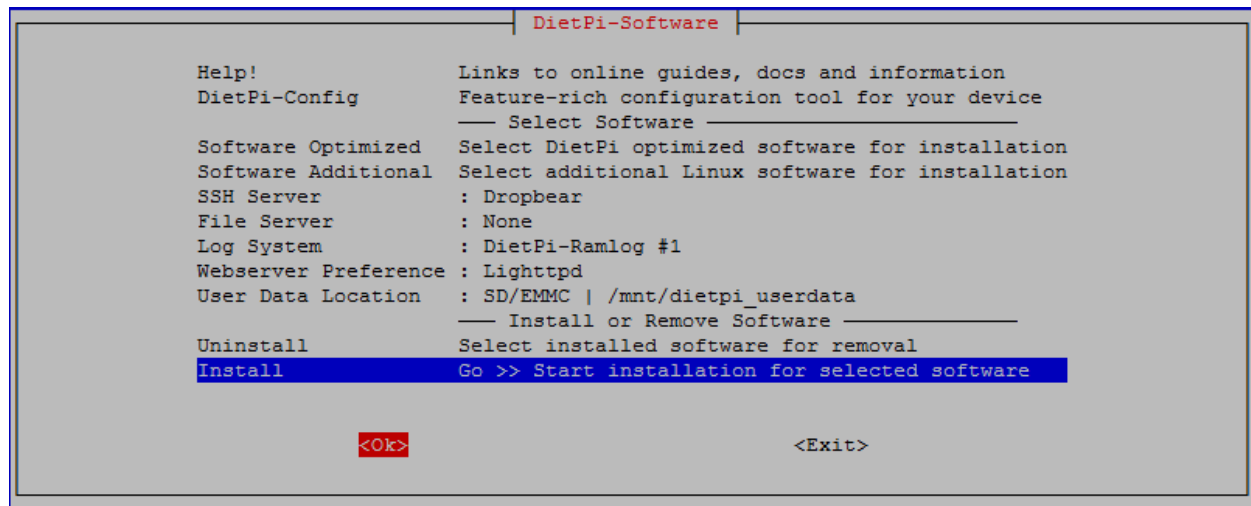
** if the USB DAC not detected or listed with Sparky USBridge port , please cross verify the DAC with Sparky USB 3.0 port for the compatibility**.

Dietpi configuration for roonbridge

<u>Dietpi sparky Image</u>: download the latest Dietpi Image from diet-pi website http://dietpi.com/
DietPi_v152_SparkySBC-armv7-Jessie.img (latest Image as on 24-06-2017, **this image loaded on emmc which coming along with USBridge package order**)

Login on terminal and configure dietpi software (connect to internet for software packages installation)
Ssh login with IP address or on KB+ HDMI monitor setup:
  user name root , Password: dietpi

```
┤ DietPi-Launcher ├
Please select a program to run:

                    ──Install Optimized Software──────────     ↑
DietPi-Software     Install optimized software thats ready to run.  □
                    ──Configuration──
DietPi-Config       Feature rich config tool for your device.
DietPi-AutoStart    Choose what software runs after boot.
DietPi-Cron         Modify the start times of cron jobs.
DietPi-Process_Tool Tweak Nice, Affinity, Schedulers for programs.
DietPi-Drive_Manager Setup and control multiple external drives.
                    ──DietPi Updates──
DietPi-Update       Keep your DietPi system upto date.              ↓


            <Ok>                        <Exit>
```

```
┤ DietPi Software Selection ├
Please use the spacebar to select the software you wish to install.
Software details: http://dietpi.com/software

[ ] 34    SubSonic 6: web interface media streaming server      ↑
[ ] 35    SqueezeBox: logitech media server (lms)
[ ] 36    SqueezeLite: audio player for lms & squeezebox        □
[ ] 37    Shairport Sync: airplay audio player with multiroom sync
[ ] 39    ReadyMedia: (MiniDLNA) media streaming server (dlna, upnp)
[ ] 40    Ampache: web interface media streaming server
[ ] 41    Emby Server: web interface media streaming server
[ ] 42    Plex Media Server: web interface media streaming server
[ ] 43    Murmur: mumble voip server
[ ] 118   Mopidy: web interface music & radio player
[ ] 119   CAVA: optional: console audio vis for mpd
[*] 121   Roon Bridge: Turns device into Roon capable audio player
[ ] 124   NAA daemon: signalyst network audio adaptor (naa)
[ ] 128   MPD: music player daemon                              ↓

            <Ok>                        <Cancel>
```

```
                    ┤ DietPi-Software ├
    Help!              Links to online guides, docs and information
    DietPi-Config      Feature-rich configuration tool for your device
                    ── Select Software ───────────────
    Software Optimized   Select DietPi optimized software for installation
    Software Additional  Select additional Linux software for installation
    SSH Server         : Dropbear
    File Server        : None
    Log System         : DietPi-Ramlog #1
    Webserver Preference : Lighttpd
    User Data Location : SD/EMMC | /mnt/dietpi_userdata
                    ── Install or Remove Software ───────
    Uninstall          Select installed software for removal
    Install            Go >> Start installation for selected software


            <Ok>                              <Exit>
```

```
              ┤ DietPi - Start Installation? ├
    DietPi is now ready to install your software choices:
     - Roon Bridge: Turns device into Roon capable audio player

    Software details, usernames, passwords etc:
     - http://dietpi.com/software

    Would you like to begin?




                <Ok>                  <Back>
```

installation will take 2 or 4 minutes ……….. depends on internet speed.
Automatically reboots on completion of installation.

Now ready to use with Roon
Open Roon application and select audio device

Enable the audio device and check.

■■