

RPi-DAC-RCA

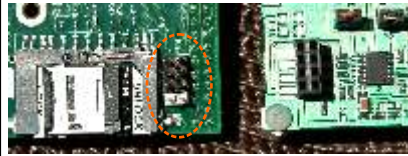
feature rich Raspberry Pi DAC



delivered option:

- ☐ Standard
- ☐ Opt. A: low noise LDO, RPi powered
- ☐ Opt. B: SPS, power the RPi
- ☐ Opt. AB: LDO and SPS
- ☐ Opt. C: complete, with RCA
- ☐ Opt. D: just SPS for RPi, no DAC

1 Preparation



solder 2x4 **male** header as P5 on Rpi on the **bottom** side

2 Rasbian

prepare SD card with Rasbian
edit file **/etc/modules** :

```
##snd-bcm2835
snd_soc_core
snd_soc_bcm2708_i2s
bcm2708_dmaengine
snd_soc_pcm1794a
snd_soc_rpi_dac
```

3 Stack modules

use stand offs (spacers)
stack together, check 2x4 connector
connect AC on AC connector:
AC 15V or DC max. 20V, > 1A



4 Safety remark

SPS installed (opt. B, AB, C, D):
The RPi can be still powered via an
USB power supply:
make sure AC is not active (not on).
Never use both options at the same time.

5 Power on, enjoy

power on, e.g. your AC or DC supply
watch and check boot log for driver errors
install *mplayer* :
sudo apt-get install mplayer
use mplayer :
mplayer http://80.237.158.40/
radio-brocken-128.mp3

Upgrade options

upgrade by soldering other options,
e.g. LDO or SPS, RCA

Convert into *Sound Card*:

instead of RPi you can combine with:

- **RPi-DAC-IF**, with SPDIF, TOSLINK and USB (XMOS module), for enclosure
- *RN52* and **RPi-DAC-IF** for Bluetooth wireless audio
- **RPi-DAC-SPDIF**, with SPDIF, TOSLINK and USB (XMOS module), *RN52 BT*
- **RPi-DAC-FPGA** for upsampling, filtering, volume control via rotary encoder
- *STM4Discovery* as cost-effective USB Sound Card

Change anytime to higher audio quality
via **RPi-DAC** (*SingleStereo*, *DualMono*)
or stack with **RPi-DAC**.

Further information

please visit:

<http://www.tjaekel.com/T-DAC>