

DAC 8 DSD – Betrieb an LINUX PCs



Linux is not officially supported by **T+A** for the use with our D/A converter **DAC 8 DSD**. Nevertheless it is possible to use the **DAC 8 DSD** as a USB D/A converter with Linux PCs.

For the operation a UAC2 compliant kernel is necessary. No additional drivers required.

The following system was successfully tested with the DAC 8 DSD:

- **Ubuntu 16.04 LTS**
- **ALSA** sound architecture
- **MPD 0.19.12-1** (MusicPlayer Demon)
- **Cantata** as MPD client

The following formats can be played back:

- **PCM Files** up to 384 ks/s
- **DSD Files** up to DSD 128

Installation Hints:

MPD and Cantata can be installed from the standard Ubuntu (universe) repository.

After connecting the DAC8DSD to the PC the command **lsusb** should show a device with the T+A USB VID (2ab6):

```
lsusb
Bus 002 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
Bus 001 Device 007: ID 2ab6:0001
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
```

If this was successful the command **sudo aplay -l** will deliver the USB device number for the DAC8DSD:

```
sudo aplay -l
**** List of PLAYBACK Hardware Devices ****
card 0: PCH [HDA Intel PCH], device 0: ALC3227 Analog [ALC3227 Analog]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
card 0: PCH [HDA Intel PCH], device 3: HDMI 0 [HDMI 0]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
card 1: HDAudio [DAC 8 USB HD-Audio], device 0: USB Audio [USB Audio]
Subdevices: 0/1
Subdevice #0: subdevice #0
```

In this case the DAC8DSD is device **hw:1,0** (card 1, device 0).

MPD Configuration:

With this device information the audio_output section of the mpd configuration (/etc/mpd.conf) can be adjusted for the DAC8DSD:

```
### AUDIO section start #####
audio_output {
  type          "alsa"
  name          "T+A DAC8DSD"
  device        "hw:1,0"
  mixer_type    "none"
  dsd_usb       "yes"
  buffer_time   "200000"
  period_time   "256000000"
  use_mmap      "yes"
  auto_resample "no"
  auto_channels "no"
  auto_format   "no"
}
### AUDIO section end #####
```