

## Allo Revolution firmware upgrade.

Allo Revolution DAC uses 2 types of firmware.

- 1) Thesycon and
- 2) XMOS

Depending on your firmware you need different upgrade software.

### Windows Driver :

#### i) Thesycon

Thesycon windows driver .

[http://3.230.113.73:9011/Allocom/Revolution/windows\\_driver\\_thesycon/CemSolutions\\_UsbAudio\\_v4.82.0\\_2020-05-20\\_setup.exe](http://3.230.113.73:9011/Allocom/Revolution/windows_driver_thesycon/CemSolutions_UsbAudio_v4.82.0_2020-05-20_setup.exe)

PCM 384Khz 32bit

DSD 512,

DoP 256

#### ii) **XMOS**

No Windows driver required (native driver for Win)

PCM 384k 24bit

DoP 256.

No DSD

### Linux : Driver built-in with Linux , plug and Play

#### i) Thesycon

384K/ 32

DoP 256

DSD512

ii) **XMOS**

Support

PCM 384K/24

DSD 512

DoP 256

**Windows USB driver for Thesycon ( Download and installation Procedure)**

Download and Install USB Audio driver on windows PC

This PC > Local Disk (D:) > DFU >

Name	Date modified	Type	Size
CemSolutions_UsbAudioDfu	5/20/2020 5:46 PM	File folder	
<b>CemSolutions_UsbAudio_v4.82.0_2020-05-20_setup</b>	5/28/2020 12:30 PM	Application	2,262 KB
CemSolutions_UsbAudioDfu	6/8/2020 9:10 AM	Compressed (zipp...	166 KB

Select the driver ( windows start search for Cem Solutions USB ) as below

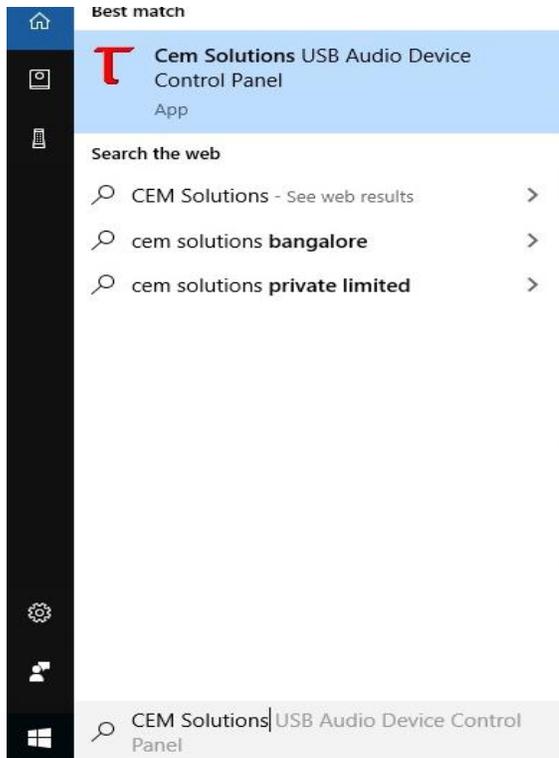


Fig 1

1) Successful detection of Revolution DAC shows info on Control Panel

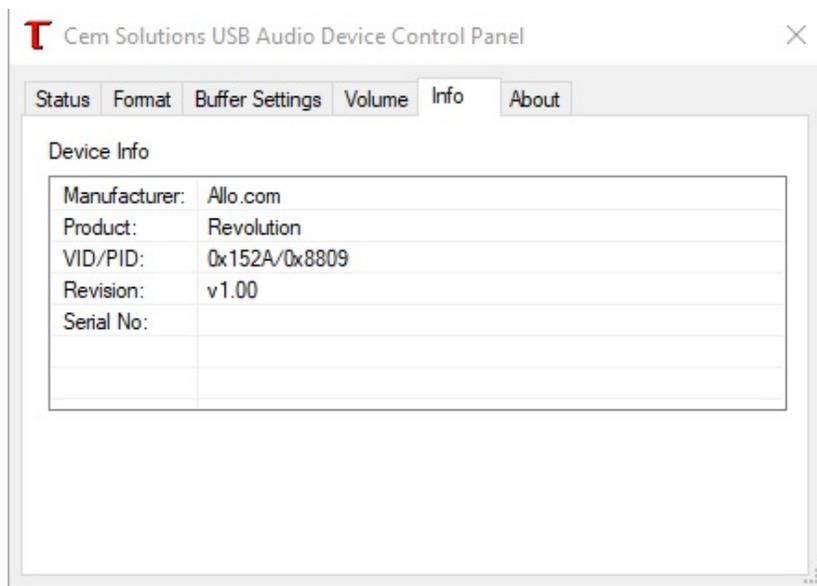


Fig 2

## **Firmware Upgrade Application:**

### **1. Thesycon :**

Firmware app for Windows PC

[http://3.230.113.73:9011/Allocom/Revolution/windows\\_driver\\_thesycon/firmware\\_update\\_application/CemSolutions\\_UsbAudioDfu.zip](http://3.230.113.73:9011/Allocom/Revolution/windows_driver_thesycon/firmware_update_application/CemSolutions_UsbAudioDfu.zip)

### **2.XMOS :**

Firmware app for Windows PC

[http://3.230.113.73:9011/Allocom/Revolution/Firmware/utility-tool/windows/USB-Audio-Class-2.0-Evaluation-Driver-for-Windows\\_4.13.0.zip](http://3.230.113.73:9011/Allocom/Revolution/Firmware/utility-tool/windows/USB-Audio-Class-2.0-Evaluation-Driver-for-Windows_4.13.0.zip)

## **Revolution DAC firmware files:**

<http://3.230.113.73:9011/Allocom/Revolution/Firmware/>

Download respective bin file and store it in local folder.

## **Revolution DAC update for Thesycon firmware ID(8809)**

- 1) Power off to Rev Dac and connect the USB cable between Rev and Windows PC and click the Thesycon driver link. Switch on the Rev.
- 2) Now Open Cem Solutions USB Audio Device Control panel and check the ID of present firmware.
  - i) If Thesycon ID(8809) click the CemSolutions\_UsbAudioDfu.exe to open the firmware upgrade application.
- 3) Choose the firmware (example) revolution-**8809**-x-x-2-date.bin – for upgrading the existing thesycon firmware.

- 4) Start updating the firmware. On successful USB connection, panel will show transfer increment. If the transfer byte not increasing you need to wait for 1-2 minutes and repeat from step 1 again. **Don't power off unit while upgrading.**
- 5) On successful firmware upgrade exit the application. Restart DAC

### Revolution DAC firmware upgrade for Xmos ID(0008)

- 1) Power off Rev Dac and connect the USB cable between Rev Dac and Windows PC and click the XMOS firmware link. Switch on the Rev.
- 2) Open Cem Solutions USB Audio Device Control panel and check the XMOS ID
  - i) If XMOS ID(0008) open the TUSBAudio Firmware Upgrade application.
- 3) Choose the firmware example revolution-**0008**-x-x-1-date.bin – for upgrading the existing XMOS firmware
- 4) Start updating the firmware. On successful USB connection, panel will show transfer increment. If the transfer byte not increasing you need to wait for 1-2 minutes and repeat from step 1 again. **Don't power off unit while upgrading.**
- 5) On successful firmware upgrade exit the application. Restart DAC

