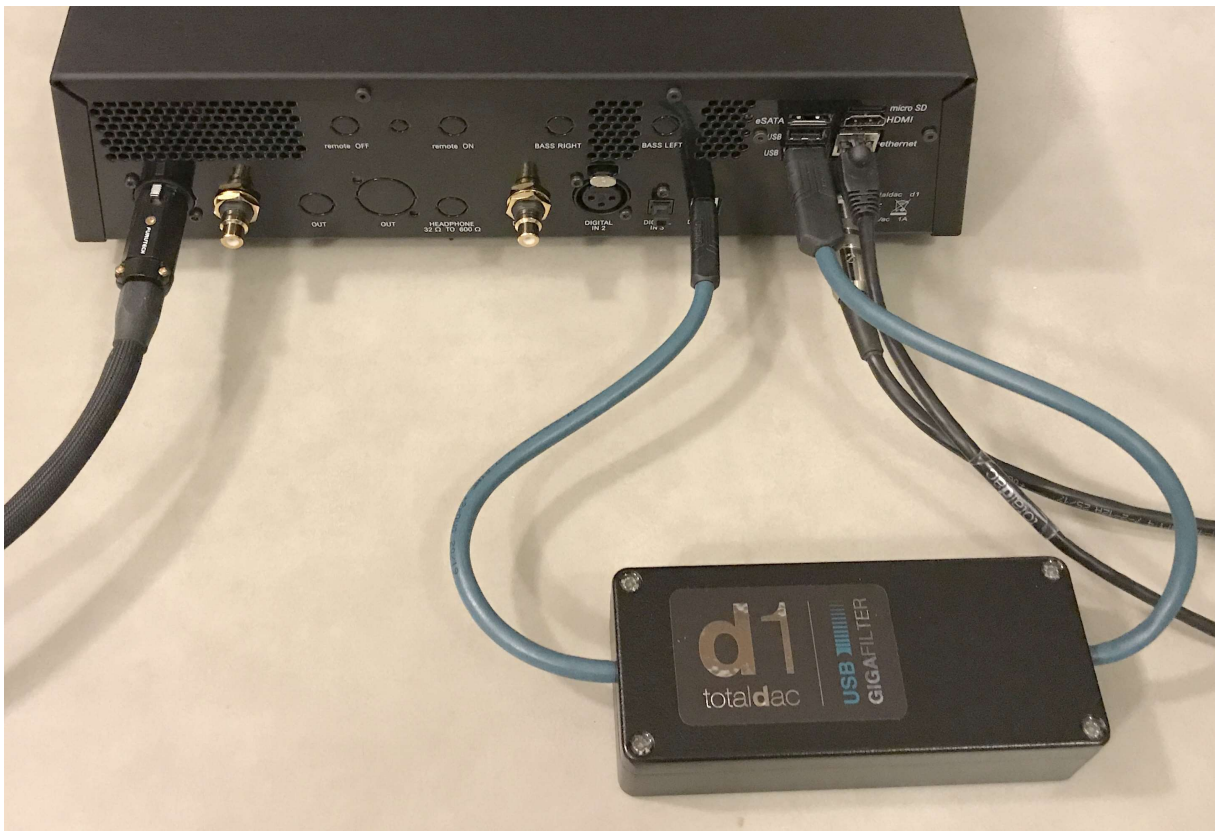
Totaldac d1-streamer User's Guide

2025 March 9th

The Totaldac d1-streamer

The Totaldac d1-streamer is composed of a Totaldac reclocker, a Totaldac streamer board and a USB loop cable. It is used as a network streamer with AES-EBU outputs.

The d1-streamer connections look like this (when the gigafilter USB loop is used, but the microfilter USB is used in the latest version):



The USB loop cable must be used to connect the reclocker USB input to the streamer board bottom USB connector. The USB input must be selected from the remote control to activate the streamer functionality.

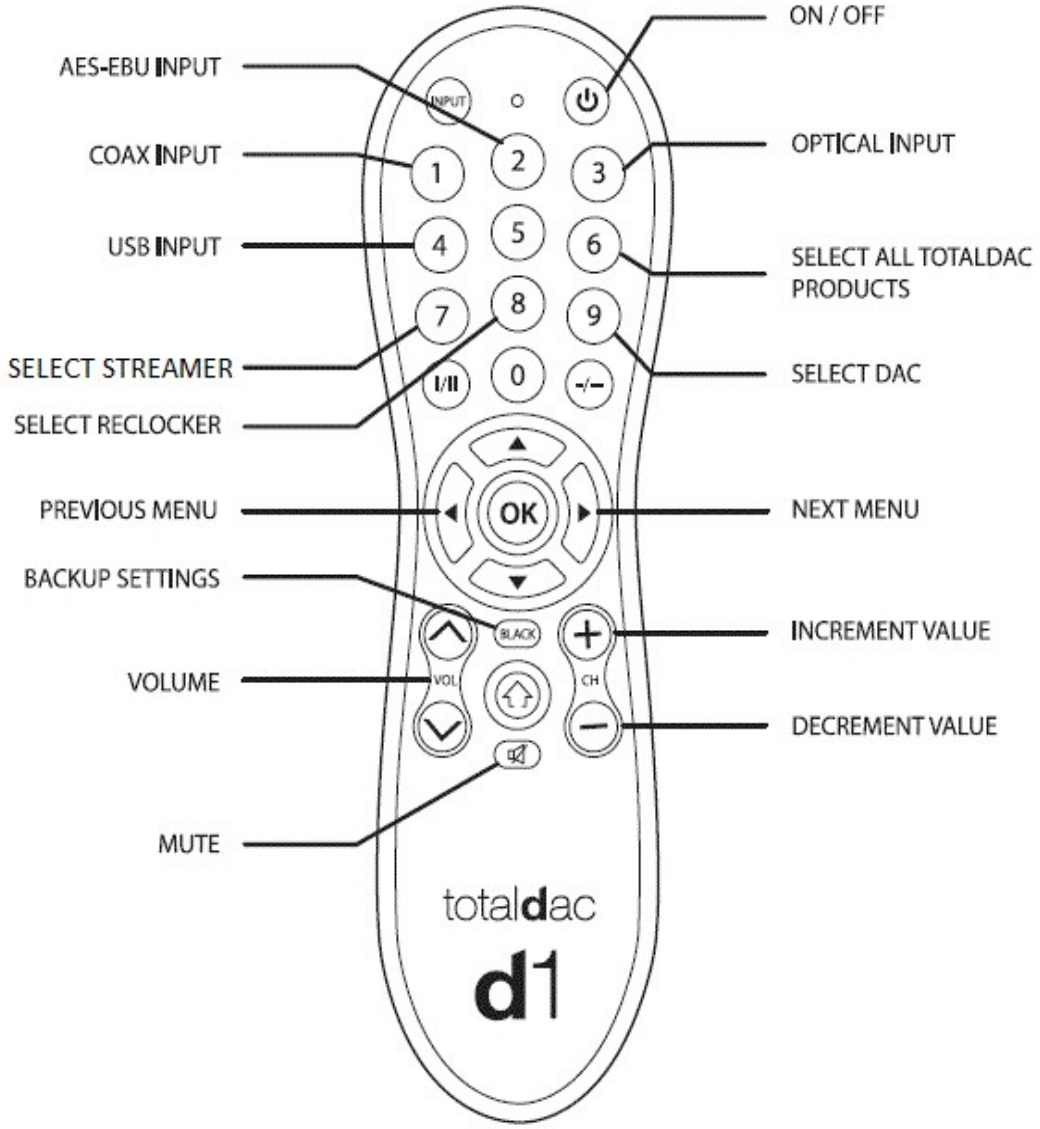
So after about 1 minute of boot time the streamer will display 192K before a music track is lauched. If it says at 48K after boot it means that there is a problem, a wrong microSD card for example.

Use a RJ45 cable to connect the d1-streamer to the local ethernet network.

The microSD card is also visible, it can be changed to upgrade the embedded computer software, see last page about software upgrade.

The remote control

An infrared remote control is supplied with the d1-streamer. It is complementary to your tablet.



Available keys, to select one Totaldac equipment among two or three using a single remote control:

--number "7": selects the remote control receiver of the d1-streamer only
--number "8": selects the remote control receiver of the reclocker only
--number "9": selects the remote control receiver of the DAC only
--number "6": selects the remote control receiver of all Totaldac products

Available menus:
EARTH: when "CONNECTED" is selected the signal ground is connected to the earth. When "UNCONNECTED" is selected the signal ground and the earth are isolated.
DISPLAY: when "ON" is selected the display is always switched on, when "OFF" is selected the display is switched off 10 seconds after the last remote control action.

RoonReady functionality

RoonReady (also called Roon RAAT) is the ability to receive the audio stream from the software Roon running in another computer in the local network.

So Roon is installed in a computer or in a NAS or in a Roon server, it can be controlled by Roon Remote application, for example on an Ipad and the audio stream is received by the Totaldac streamer.

Roon can also be used to listen to **Qobuz** and **Tidal**.

When using Roon on the computer, just enable the auto-detected RoonReady device called 'd1 music server' in Roon interface. Leave the setting corresponding to the RoonReady device by default (resync delay '500ms', max sample rate 'disabled', max bits per sample '24bit').

Then select this output as your current audio output.

Squeezelite functionality

Squeezelite is a Squeezebox emulator. It can be controlled by a Logitech Media Server but even more interesting, it can be controlled by Roon. So it can replace RoonReady functionality in case you prefer the Squeezelite sound.

To use Squeezelite with Roon:

-go in Roon/settings/setup and click yes to "Enable Squeezebox Support"

-go to Roon/settings/audio and enable the SqueezeLite device in the Squeezebox section. Name it. Clic its setup and set DSD DoP, fixed volume and resync delay 2000ms

-Select this output as audio zone

UPNP/DLNA functionality

UPNP/DLNA is a standard which allows to send audio to a network device. So the d1-streamer can be used as a UPNP audio receiver. A software running in a computer or in a NAS can send the music files.

For example Audirvana can send the audio files via UPNP and the associated app on Ipad can be used as a remote control.

An application like Jplay can control the music. Jplay can also be use to stream **Qobuz** or **Tidal**.

Minimser can be used as a music file server running in a NAS.

If you just streamer music from internet you don't need a NAS, just use Jplay app in this case.

Airplay compatible functionality

Airplay allows sending audio from an Apple equipment (Ipad, Iphone, MAC...) to the d1-streamer via the local network (via Wifi or ethernet).

It is a very easy solution to listen to streaming (just installing the app Qobuz, Tidal, spotify... on Ipad or Iphone) or radio or Youtube or anything else generating audio from a MAC, Ipad or Iphone.

Note that it is limited to 16bit and 44.1KHz.

NAA functionality

NAA (Network attached adapter) is the sound receiver for the software HQplayer running in a computer.

To use it, launch HQplayer on your computer and set this:

File/Settings/backend: NetworkAudioAdapter

File/Settings/device: cubox: XMOS USB Audio 2.0 Audio

File/Settings/SDM pack: DoP

Note that the HQplayer window must be closed to release the audio port for the other applications (RoonReady, upnp or Airplay).

Software upgrade

If later a new software is available (software for the embedded streamer board) you will have to write it onto a microSD card.

Switch OFF the d1-streamer via the power supply button (not by remote control button). You can now remove the microSD card at the back of the streamer.

You can re-use the microSD card which was in the Totaldac streamer, or to maximise the reliability you can buy a new microSD card. A 32GB card or higher capacity is recommended. For a long life you can get a 32GB Sandisk MAX Endurance.

Download the new software image .zip file (the link to each new version of software is automatically sent by e-mail). Don't unzip it, keep it as a .zip file in a directory of your computer.

Then download banelaEtcher application (for MAC or Windows or Linux) at https://www.balena.io/etcher/ and install it in your computer.

Insert the microSDcard in the card reader of your computer and then launch the application **banelaEtcher**. Select the .zip file that you have just downloaded, select the corresponding disc drive and press "**flash!**".

When your computer detects a microSD card which has been flashed for the Totaldac streamer board, the computer may say that it is not correctly formatted. Ignore this warning, this is because the Totaldac streamer uses a Linux format which is not recognised by Windows nor IOS. Do not accept that Windows or IOS re-formats the microSD card.

You can now insert the new microSD card in the Totaldac streamer. Then switch ON the streamer power supply.