BeoCreate Four Channel Amplifier
by HiFiBerry

“Empowering people to upcycle vintage speakers on an open-source platform.”

Bang & Olufsen Create and HiFiBerry have joined forces to develop an easy and elegant solution that upcycles vintage loudspeakers. The BeoCreate Four Channel Amplifier has been developed by HiFiBerry to provide best in class sound for its category.

The BeoCreate Four Channel Amplifier does not only amplify passive loudspeakers, but replaces the old passive crossover with an active crossover through a flexible DSP. Bang & Olufsen will provide tuned DSP filters for selected BeoVox loudspeakers to ensure true Bang & Olufsen sound in an easy and engaging DIY project.

Users will also be able to create custom DSP algorithms for any passive loudspeaker to enhance the sound through filters, compressors, bass enhancements etc. User can upload and share their DSP algorithms, so it’s not only about re- and upcycling old loudspeakers but also add more functionality to them.

The system is built inside the speaker, making the technology invisible and provides modern sound to classic speakers.

Technical specifications (preliminary)

- Works as a standalone DSP board (digital in/4 channel out) or as a digital audio player when used with the Raspberry Pi
- When used with the Raspberry Pi, the user can use the software of their choice
- TOSLink input and output
- Powerful digital signal processor that can be directly programmed by the user from a PC using Analog Devices SigmaStudio
- Wireless DSP programming (Ethernet, WiFi)
- 4 channel 24bit/192kHz DAC
- 4 channel amplifier (2x30W + 2x60W)
- single external 12-24V power supply
- analog input can be added using a small add-on-board (not yet available)

Use cases
- Upcycle existing older loudspeakers
- DIY speakers with active crossover
- Room equalization (external measurement microphone needed)
- A compact powerful external amplifier