

Features

- Floating point Digital Processor
- Flexible configurations
- Low power & small form factor
- Large FIR & IIR filter banks

Hardware

- Analog Devices ADSP21369
- 32bit Floating point processing
- Stereo analog inputs (XLR)
- Stereo analog outputs (XLR)
- 114dB ADC/DAC converters
- Front panel volume control
- IR control with learning feature

Software Control

- Real time live control
- Win & Mac compatible
- Firmware upgradeable
- 4 preset memory

Power

- Single external 5VDC supply
- Low power (3W)

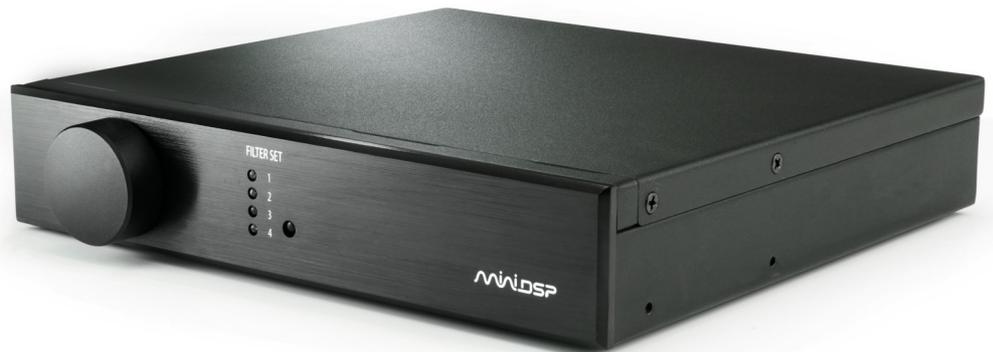
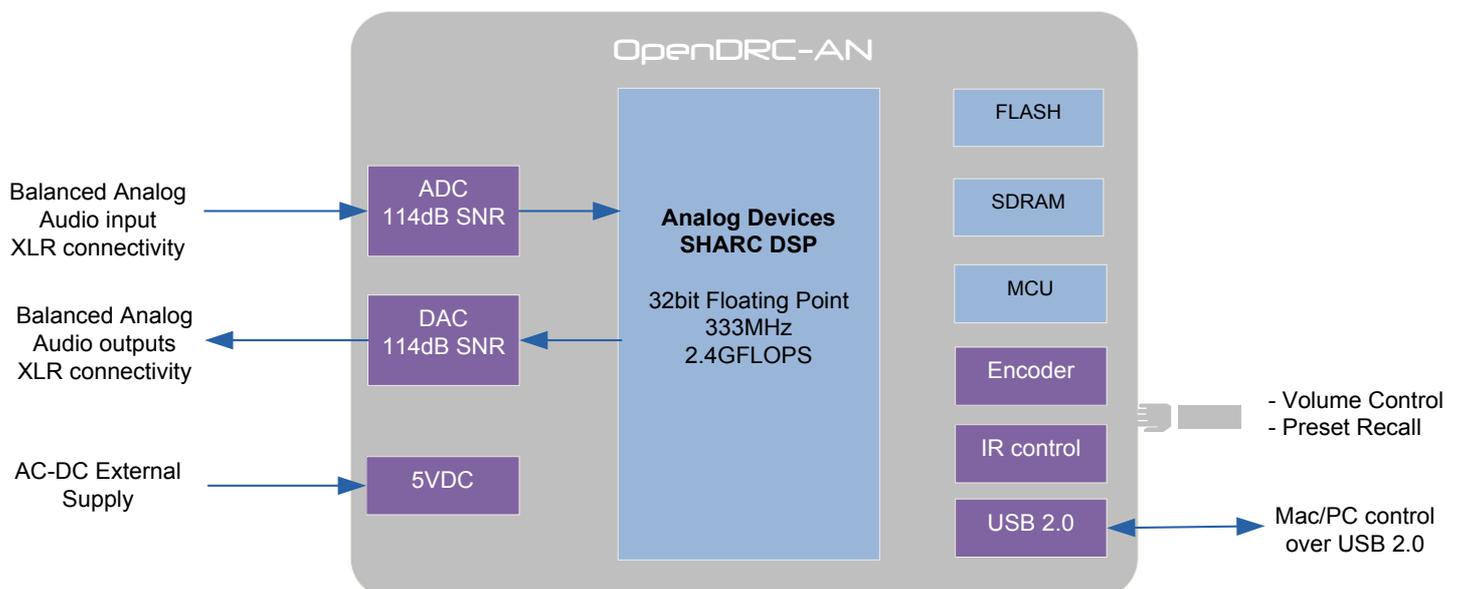
Applications

- Room correction using FIR filters
- Advanced filtering applications
- System equalization
- Mobile Audio

Introducing the OpenDRC platform, a range of cost effective digital audio processor with floating point capabilities. Powered by Analog Devices Sharc processors, the OpenDRC engine stands between your audio source and amplifier to handle complex audio filtering such as room correction, FIR crossover filtering, subwoofer tuning. A wide variety of application thanks to the flexibility of the platform and its high performance.

The OpenDRC-AN (AN for Analog) is a stereo audio processor with balanced analog audio input and outputs on Neutrik XLR connectors. The IR learning remote feature and/or rotary encoder allows for control of the active preset or master volume without the need of any PC once the unit is configured.

Last but not least, the OpenDRC-AN follows the footsteps of our proven miniDSP concept: "One hardware, many plug-ins". An easy to use platform that received praises for its simplicity of use. By setting some strategic partnership with 3rd party software developers, the OpenDRC takes it one step further in harnessing DSP powers in audio applications. From advanced room correction to full featured linear phase crossover, the OpenDRC opens up a new range of audio processing solutions!

**SYSTEM DIAGRAM**

HARDWARE SPECIFICATIONS

Item	Description
Digital Signal Processor	32bit Floating point Analog Devices SHARC ADSP21369 / 333MHz
Control	Driverless USB 2.0 control interface for Windows/Mac OS x environments A computer is only required for the initial configuration.
Analog Audio inputs	Balanced Audio connectivity on XLR Neutrik connector Pin 1 = Shield / Pin 2 = Hot / Pin 3 = Cold ADC performance: 114dB SNR Max input level: 2Vrms (Jumper Closed) / 8Vrms (Jumper open) Input impedance: 40k Ohms
Analog Audio outputs	Balanced Audio connectivity on XLR Neutrik connector Pin 1 = Shield / Pin 2 = Hot / Pin 3 = Cold DAC performance: 114dB SNR Max output level: 2Vrms Output impedance: 560 Ohms
Sample rate / Resolution	Resolution: 32bit Sample rate: Depends on selected plug-in. Please consult plug-in datasheet for more information on the operating sample rate of the DSP
Template FIR filter capabilities (Important note: FIR capabilities are controlled by the plug-in used and not the hardware itself).	Mono signal: FIR filter with up to 12228 taps @48kHz, 6144 @ 96kHz Stereo signal: FIR filter with up to 6144 taps/ch @48kHz Please consult the plug-in specs for more info.
FIR filter storage	FIR taps coefficients & DSP configuration automatically loaded at bootup
USB port	USB port type B for real time control and firmware upgrade
Power supply	5VDC single supply / 600mA @ 5V - 2.1 round plug
Dimensions (H x W x D) mm	41.5 x 214.5 x 200mm

MECHANICAL SPECIFICATIONS

