miniDSP 2×4 HD

Features

- Floating point SHARC DSP

- FIR & IIR filter banks

Hardware

- Analog Devices ADSP21489
- XMOS Async USB audio
- 2ch analog input on RCA
- 4ch analog outputs on RCA IR control with learning feature

Software Control

- Real time live control Win & Mac compatible Firmware upgradeable

Power

Applications

- Two-way active loudspeakers

- Subwoofer integration

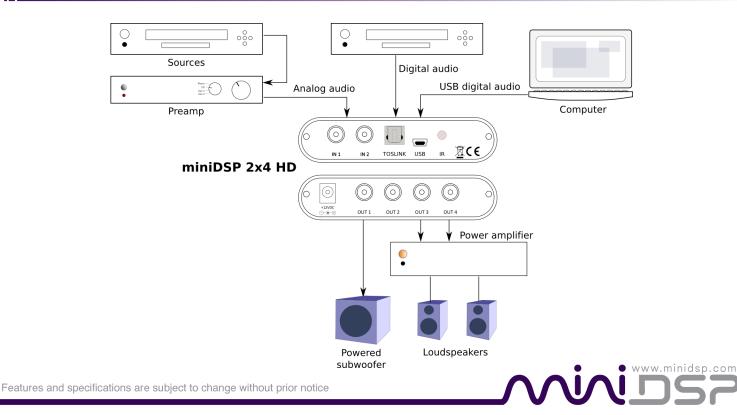
Introducing the long-awaited "reboot" of miniDSP's best-selling 2x4 digital audio processor: the **miniDSP 2x4 HD**! This tiny powerhouse is jam-packed with miniDSP's tried and proven audio processing functionality: flexible parametric EQ, Butterworth and Linkwitz-Riley crossovers, advanced biguad programming, and delay on each output channel. miniDSP's "one hardware many plugins" concept allows for many interesting future applications!

The upgraded on-board 400 MHz Analog Devices SHARC processor also enables substantial processing upgrades previously available only on more expensive platforms, such as 96 kHz internal processing for true highresolution audio capability and assignable FIR filter taps for sophisticated equalization, crossover, and room correction capabilities. All to be accessed and programmed with miniDSP's easy-to-use interface software.

I/O capabilities get an upgrade too, with the addition of USB audio streaming up to 192 kHz and a TOSLINK digital input. The miniDSP 2x4 HD will find application in full-sized hifi and home theater systems, on desktops, in cars, in recording studios — anywhere a compact, simple, yet surprisingly powerful DSP audio processor is needed.



TYPICAL APPLICATION



miniDSP 2x4 HD

minidsb

HARDWARE SPECIFICATIONS

ltem	Description
Digital Signal Processor	32-bit Floating point Analog Devices SHARC ADSP21489 / 400 MHz
Control	Driverless USB 2.0 control interface for Windows/Mac OS X environments A computer is only required for the initial configuration and for USB audio streaming
USB audio input	 XMOS asynchronous USB audio up to 192 kHz, USB Audio Class 2 compliant ASIO drivers for Windows Driverless for Mac OS X
Digital audio input	TOSLINK optical input. The input signal is processed by a high quality onboard Asynchronous Sample Rate Converter for compatibility with most common sample rates (20–216kHz)
Analog audio input	Unbalanced stereo (2 channels) analog audio on RCA connectors - Max input of 4V or 2V RMS, jumper-selectable - Input impedance: 10kΩ - THD+N: 0.003% (RCA to USB) - Dynamic range: 103dB
Analog audio outputs	Unbalanced analog audio (4 channels) on RCA connectors - Max output: 2V RMS - Output impedance: 560Ω - THD+N: 0.001% (USB to RCA) - Dynamic range: 103dB
FIR capabilities	FIR filtering with number of taps assignable to each output channel. FIR filters are designed by third-party programs. FIR file format: IEEE 754 single-precision binary floating-point.
Filter storage	Four on-board presets, selectable by remote control
Infrared remote control	Learning remote feature for input selection, volume, mute, and preset recall
ADC/DAC Sample rate & Resolution	Resolution: 24 bit Sample rate: Depending on plugin selected
USB port	USB port type Mini-B for audio streaming, real time control and firmware upgrade
Power supply	12 VDC single supply / 2.1 mm round plug / 2.5W
Dimensions (H x W x D) mm	27 x 119 x 107 mm

MECHANICAL SPECIFICATIONS

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