

dspMusik™ 2/8 Semi-customizable, Professional Audio Converter Platform



- Up to 192 kHz sample rate
- S/N in excess of 120 dBA
- Balanced/Unbalanced I/O
- USB Audio Class 2
- Analog Devices SHARC DSP
- Low phase jitter clocks
- AKM ADC
- Wolfson DAC
- Optional analog input module
- Optional custom configurations

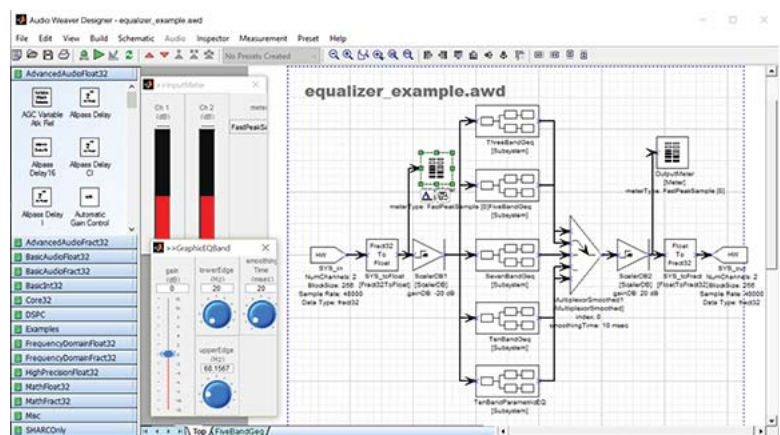
The dspMusik™ 2/8 is a stereo in, eight out multichannel DAC platform, suitable for high performance DSP loudspeaker crossovers, music decoders and many other high quality audio algorithm applications.

The dspMusik 2/8 platform is available in a variety of configurations including PCB assemblies where you provide your own housing, or it can be provided in an extruded aluminum enclosure. Panels can be customized and rebranded with your company's logos and trademarks to fit your company's specific requirements and branding.

The dspMusik 2/8 is supported by a custom version of DSP Concepts' Audio Weaver™ programming software. This is a powerful graphical design package that lets you create your signal processing chain by simply dragging and dropping highly optimized audio processing modules. You can use any of the dozens of pre-built audio functions—EQs, crossovers, mixers etc—or enhance and combine them with your own custom processing to create precisely the functions you need. Once the design is done, the file can be directly saved and run stand-alone on the dspMusik platform.

Audio Weaver Programming Software

- PC-Based Development Environment
- Drag and Drop Signal Processing
- Over 400 processing Modules
- Real Time Tuning and Profiling
- Visit www.dspconcepts.com for more info



Combined with Audio Weaver, the dspMusik 2/8 DAC delivers a high performing, fast time to market, custom audio platform for your audio projects.



Danville Signal

dspMusik™ 2/8 Multichannel DAC

The dspMusik 2/8 platform delivers audiophile performance, featuring state-of-the-art components from Analog Devices, XMOS, AKM and Wolfson. Each part has been carefully selected to build a precisely integrated system.

The dspMusik starts by using low phase jitter clocks driving all the data converters. The optional ADC incorporates very high common mode rejection / low noise balanced inputs and DACs with minimum phase anti-imaging filters (desirable to avoid pre-echo effects). Signals are processed by an audio-optimized 32-bit/40-bit floating point DSP capable of up to 192 kHz performance.



The dspMusik features:

DSP:

Analog Devices SHARC ADSP-21479

Inputs:

USB Audio Class 2: XMOS XS1-U8A

SPDIF

Optional Analog Input Module

ADC: AKM AK5394A (S/N > 120 dBA)

Outputs:

DACs: Wolfson WM8742 (S/N > 120 dBA)

Configurable Input / Output:

Balanced or unbalanced circuits

Consumer (-10dBV) or Pro (+4dBu) levels

Standard 6.3mm TRS connectors

Optional Tascam style DB-25 connections

Operating System Support:

Microsoft Windows XP, 7, 8 & 10 (included)

Apple OS X (native support)

Input Power (Complete Version)

IEC Mains Connector

Autoswitching 115/230VAC, 50/60Hz

dspMusik 2/8 Configurations

The dspMusik 2/8 platform is available in two configurations: PCB Assemblies (with or without ADS and/or TRS) and two Complete with Housing versions (with or without ADC). A variation using the ADSP-21469 DSP is also available. Visit our website or contact us for more information.

The Danville Advantage

We take the complexity out of designing sophisticated products. Today's DSPs and other state-of-the-art components are extremely powerful, but they come at a price: they are often extremely difficult to design on to a board. Complex routing, small pitch BGA, multiple layer I/O paths, etc., all combine to make the utilization of the features of powerful chips challenging. We have significant experience with designing complex, multi-layer processing boards, so all you need to worry about is integration. Give us a call, let's start a conversation about how Danville Signal can provide the platform for your next design!

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