›› Danville Signal

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

- Up to 384 kHz sample rate
- S/N in excess of 120 dBA
- Balanced/Unbalanced I/O
- USB Audio Class 2
- Analog Devices SHARC DSP
- AKM DACs
- Low phase jitter clocks
- 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
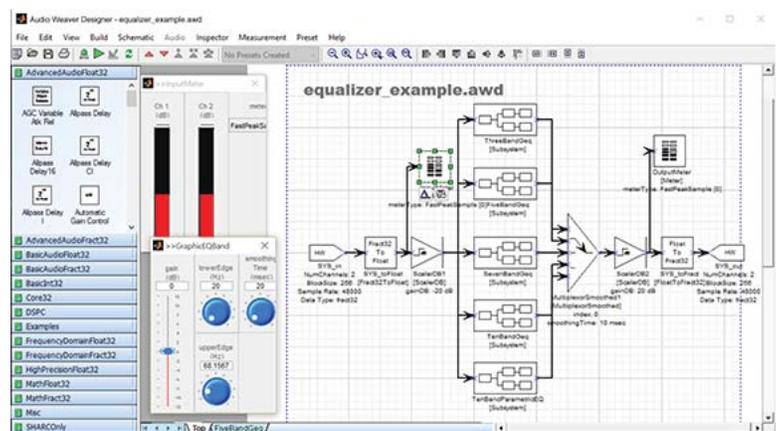
**Combined with Audio Weaver, the dspMusik 2/8 DAC delivers a high performing,
fast time to market, custom audio platform for your audio projects.**

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dspMusik™ 2/8 Multichannel DAC

The dspMusik 2/8 platform delivers audiophile performance, featuring state-of-the-art components from Analog Devices, XMOS and AKM. 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 384 kHz performance.

The dspMusik features:

DSP:
Analog Devices SHARC ADSP-21469 or
Analog Devices SHARC ADSP-21479

Inputs:
USB Audio Class 2: XMOS SPDIF
Optional Analog Input Module
ADC: AKM AK5397 (S/N > 120 dBA)

Outputs:
DACs: AKM AK4495 (S/N > 120 dBA)

Options: LCD Displays, Pascal T-PR02/S-PRO2, DAC
Expansion-8 channel interface allows 16 outputs

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 is available in multiple configurations. 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 Signl can provide the platform for your next design!

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