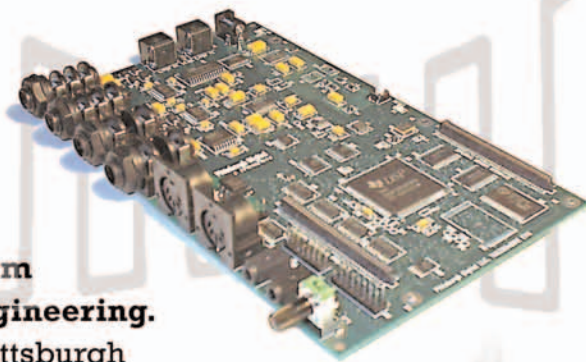


a/mi 2812

THE EVM THAT ROCKS

**Audio / Musical Instrument
TMS320x2812 DSP module**



Pittsburgh Digital proudly presents the a/mi2812 DSP module, **the first complete DSP development platform designed specifically for audio/musical instrument engineering.** Coupled with cutting-edge software and algorithms from Pittsburgh Digital, the a/mi-2812 gives you **lightning-fast prototyping** and **ultra-quick time to market.**

A wide variety of **interface options** makes this board the optimal tool for musical product development. You can plug into its **1/4" jacks** and play the a/mi2812 right out of the box. Connect your digital gear directly to the a/mi2812 **optical S/PDIF.** User interface connections are provided for **real-time analog control.** I/O connections for switches, LEDs, and **MIDI** are all at your fingertips. The a/mi2812 also has a Texas Instruments **High Performance Analog** standard daughter card interface, should you decide to customize your analog hardware.



AUDIO/ANALOG FEATURES

- Stereo 1/4" balanced inputs
- Dual PGA2500 digitally controlled stereo mic pre-amps
- PCM1804 24/192 111dB ADC
- PGA2311 stereo digital volume control
- PCM1754 24/192 106dB DAC
 - Stereo 1/4" outputs
- One on-board real-time control potentiometer
- Two continuous controller ADC input jacks
- Four ADC inputs on header for connection to additional controllers
- TI High Performance Analog interface

SOFTWARE FEATURES

- MIDI in and out/thru
- S/PDIF optical in and out
- eXpressDSP-compliant demo software:
 - Chorus
 - Flange
 - Fuzz
 - Reverb
 - Octave pitch shift
 - Wah-wah
- 8 I/O pins on header for connection to LEDs or switches
- T.I. DSP/BIOS compatible
- Peripheral drivers included

DSP FEATURES

- 150 MIPS TMS320F2812 DSP
 - 32x32-bit MAC operations
- 512K words asynchronous RAM, up to 1M addressable
- 128K x 16 on-chip flash memory
- C/C++ programmable, in fixed or floating point
- Up to 56 programmable general-purpose I/O pins
 - JTAG boundary scan support
 - Low-power and power-saving modes
- 16 channels of 12-bit ADCs for real-time control

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