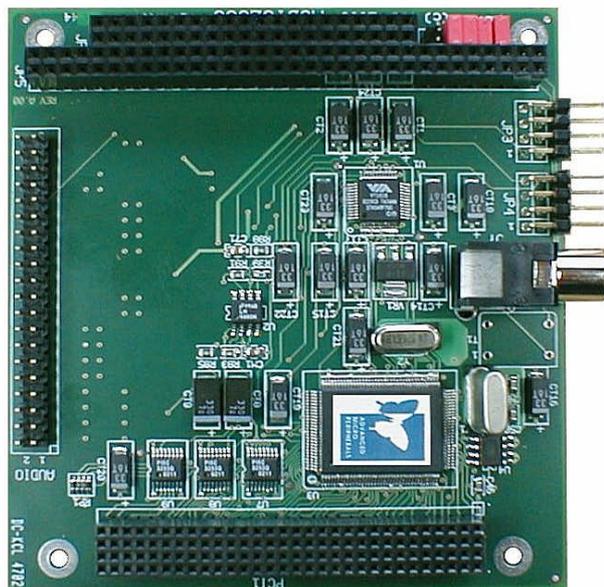## Audio2000   PC/104+ Multi-Channel Sound Card

General Description

The **Audio2000 Sound Card** is a versatile and high performance 18-bit Sound Card that brings state-of-the art Sound processing to the PC/104+ architecture. The Audio2000 provides 6 Output Channels and 2 Input Channels simultaneously. All Audio paths are 18-bits wide which, with up to 48KHz sampling rate makes the Audio2000 an ideal solution for high performance embedded Audio and Multimedia applications. The built-in 18-bit sigma-delta Audio Codec conforms to the AC97 rev 2.2 specifications and features flexible sample rate adjustments down to 1 Hz resolution. A transformer-coupled serial S/PDF output is also available as an option for Stereo Digital Output. The **Audio2000** is supported by a suite of drivers for DOS, Windows95/98/NT/2000/XP and Linux .

Features

- 6 Channels Audio
- Supports up to 6 Speaker Outputs
- 3 Stereo Input pairs (including CDROM)
- 18-bit Digital-to-Analogue conversion
- 18-bit Analogue-to-Digital during recording
- 24-bit S/PDIF Stereo Output (option)
- On-board Headphone Amplifier
- Drivers for DOS, Windows, Linux
- Compact 3.6in x 3.8in PC/104+ form factor
- Single +5V power supply

Applications

- Embedded Multimedia
- In-flight Audio Systems
- Medical and Industrial Audio
- Public Information and Transportation
- Disc based Audio Recorder
- Disc based Audio Player
- Mobile Entertainment Systems (MES)

*Rev A.01
subject to change without notification

Audio2000   PC/104+ Multi-Channel Sound Card

PC104+ Bus Interface	Compliant with PCI Rev 2.2 132MBytes/sec bandwidth at 33.33 MHz bus speed PC/104+ bus Master/Slave Consumes less than 1MBytes/sec bandwidth at maximum throughput Audio burst to all channels
Analogue Input	Audio Stereo Input from CDROM, Video Player Auxilliary Stereo Input PC-Beep and Microphone Inputs
Audio Input Digitisation	AC97 2.2 conformance 18-bit resolution on each channel Sampling rate up to 48KHz rate Sampling rate adjustment at 1Hz increments
Analogue Outputs	6 Channels Audio Output Dolby 5.1 Mode supports - Output for Front-Left, Front-Right Loudspeakers Output for Surround-Left, Surroundt-Right Loudspeakers Output for Center, LFE Loudspeakers
Digital S/PDIF Output	Transformer-coupled S/PDIF Output (option) 24-bit Digital Stereo Supporting Output to DAT, Minidisc Player, etc
Audio Mixer	Hardware down-mixing from 6 to 4 or 2 channels Peak Level metering per channel Programmable Input Level/Muting
Miscellaneous	Single +5V at less than 400mA Operating Temp of 0 to 60degC (Extended Temp option) Standard 3.6 x 3.8in PC/104+ form factor
Software	Drivers for Windows98/NT/2000/XP, Linux Other Operating Systems such as Win-CE, QNX, VxWorks, etc can be supported on demand
Ordering Information	**Audio2000-6** Standard Audio2000 6-channel card Audio2000-6/SP Same as above with S/PDIF Output

Audio2000   PC/104+ Multi-Channel Sound Card

CDROM Input

Line Input

Aux Input

Mic/PC-Beep Input

Sigma-Delta Audio ADC

PC/104+ Bus

Front-L/R Output

Surround-L/R Output

Centre/LFE Output

Audio Mixer Engine
Multi-channel DMAC
AC96, S/PDIF

Digital S/PDIFOutput (option)

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