

Overview:

The **VRM-CH1-4** is a high performance audio accelerator add-in card for CompactPCI® systems. The 3U board exceeds the Microsoft® PC 99 audio performance specifications and complies with the Intel® AC '97 spec. The **VRM-CH1-4** provides a complete suite of analog and digital I/O connections. The board contains three stereo outputs for front L/R, surround L/R and center/low frequency speakers. The sound card features 420MIPs high speed DSP Audio processor, and two audio codec's. The codec's include stereo 20-bit DACs and stereo 18-bit ADC's, allowing for recording, mixing and playback of voice and music at the highest quality level. The **VRM-CH1-4** is a perfect solution to industrial range CPCI systems with need for high performance audio I/O. Drivers for Linux from kernel 2.2.17 off, and Windows 95/98/ME, NT4 and Windows 2000 available. The **VRM-CH1-4** is also compatible to existing legacy software.

Features:

- 3U Eurocard (100x160mm²), front panel width 20.3mm (4HP), mechanics constructed with respect to EMC requirements, ejector lever
- Audio Processor: PCI Audio Controller, 420 MIPs DSP processor architecture, hardware acceleration for Microsoft DirectSound® and DirectSound3D® positional audio, Sensaura™ 3-D, 2 or 4 channel audio, EAX™ enhanced environmental audio, unlimited voice wave table synthesis, acoustic echo cancellation, acceleration for Netmeeting™, 10 Band graphic equalization, dual AC '97 codec interface, DirectInPut™ joystick interface and MPU-401 MIDI I/O, PC 98/99 and AC '97 compliant, legacy support
- Audio Codec's: Primary and secondary AC'97 codec's, controlled via AC Link by the audio accelerator, 20-bit Stereo DACs, 18-bit Stereo ADC's, pseudo differential CD input, exceed PC 99 and AC'97 specifications
- Front Panel Stereo Audio Jacks 3.5mm:
 - Mic input, phantom power 2V as required by PC 99 on the middle contact, suitable for Electret microphones (Mono), low noise amplifier 18dB on-board.
 - Line input, 2Vrms max., Stereo
 - Line output speakers L/R, 1V rms
 - Line output Surround speakers L/R, 1Vrms
 - Line output Center/LFE speakers, 1V rms
- On-Board Connectors:
 - CD input, 4-position Molex shrouded header J5, pseudo differential input 1V rms' Stereo
 - Auxiliary input (AUX), 4-position Molex shrouded header J4, 1V rms Stereo
 - PC Beeper input (BP), 2-position Molex shrouded header J6, Mono
 - *Optional Midi/Joy interface, 16-position shrouded header J3 (by default not stuffed)*
 - *Optional Headphones output, 32 Ohm, short circuit proof, Stereo, 4-position Molex shrouded header J7 (components by default not stuffed; as an option, the headphones output can be wired to the front panel audio jack AJ2, replacing the Line in function)*
- Connector J1: 32-Bit DMA Bus Master (133MB/s), 3.3V or 5V interface
- Connector J1: +5V ±5% 0.5A max, +3.3V ±0.3V 0.2A max, +Vio (5V/3.3V) ±0.3V 0.1A max, +12V ±5% 0.1A max.
- Operating Temperature: 0-70°C. Humidity: 5-90% non condensing
- Software Drivers: Windows95/98/ME, NT4, Windows2000, Linux 2.2.17-19, 2.2.4x, Redhat 7.0, Redhat 7.1



Ordering Options:

VRM-CH1-4: 3U CompactPCI 6-channel high performance audio controller, complete suite of analog I/O connections, dual AC '97 Codec.

VRM-CR9-ADP: mechanical kit, expands front panel from 3U to 6U.