

## Vortex Advantage PCI—The Price/Performance Leader

### Key Features

- Powered by the Aureal Vortex AU8810
- A3D 1.0 positional 3D audio support
- Professional 256-voice wavetable synthesizer with DLS 1.0 and DirectMusic support
- 10-band graphic equalizer
- High-performance PCI 2.2 interface
- Superior audio quality (exceeds PC98/99 specifications)
- Stereo speaker and headphone support
- Accelerated DirectInput game port

### Connections

#### Bracket connectors

- Headphone/Line output
- Line output
- Microphone input
- Game/MIDI port

#### Internal connectors (all MPC3)

- CD input

### Compatibility

- A3D 1.0 compatible
- Exceeds PC98 and PC99 requirements
- Windows 95/98/NT driver support
- DirectSound, DirectSound3D, DirectMusic and DirectInput support
- Sound Blaster Pro support for legacy DOS game support
- FCC, CE compliant

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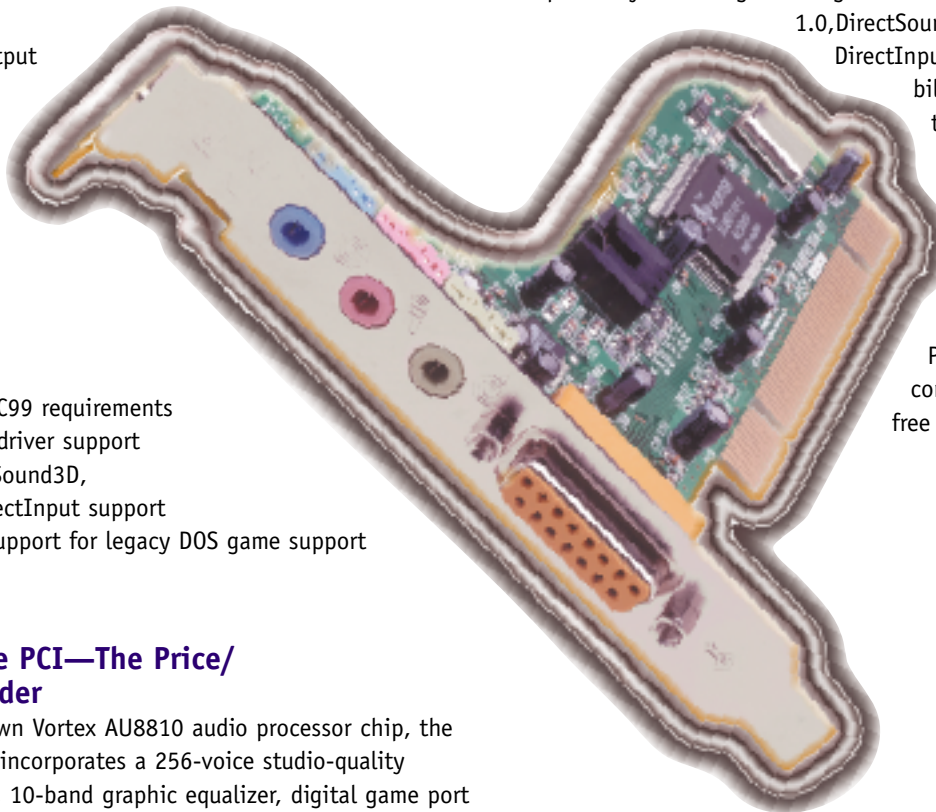
Powered by Aureal's own Vortex AU8810 audio processor chip, the Vortex Advantage PCI incorporates a 256-voice studio-quality wavetable synthesizer, 10-band graphic equalizer, digital game port on a single high-performance PCI board. In addition, Vortex Advantage PCI supports A3D, the most advanced positional 3D technology available today.

### A3D—The Industry Standard 3D Audio Technology

Originally developed for the NASA for use in their astronaut training programs, Aureal's A3D is the de facto standard for 3D audio on over three million PCs. A3D puts the listener in the 3D environment, making sounds appear to come from any direction—left and right, front and back, top and bottom—giving gamers a decided advantage over their opponents.

### Software support and Compatibility

Driver support is provided for Windows 95/98, Windows NT 4, and the forthcoming Windows 2000 WDM architecture. In addition, compatibility with all games is guaranteed via sup-port for A3D 1.0, DirectSound, DirectSound3D, and DirectInput. Legacy audio compatibility provides tried-and-true support for older DOS games without unstable hardware-dependent PC/PCI or D/DMA schemes found in other PCI sound cards. The Vortex Advantage PCI is also Plug 'n' Play compliant, ensuring hassle-free configuration.



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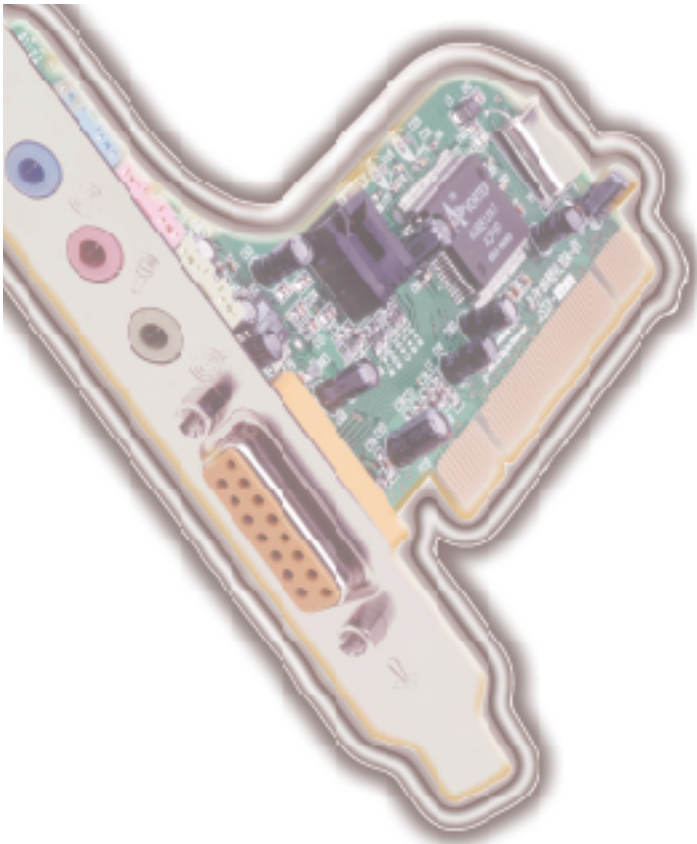
Aureal Semiconductor  
4245 Technology Drive  
Fremont California 94538  
Tel: 510.252.4245  
Fax: 510.252.4400  
www.aureal.com

## Aureal—The PC Audio Experts

Aureal's expertise in PC audio is unequalled by any other company. Aureal's Vortex line of audio processor chips has set the standard for performance and sound quality on the PC, delivering superior audio to top-tier computer companies and leading sound card manufacturers. Aureal's A3D positional 3D audio has become the standard for positional audio technology on the PC, enhancing the experience of top-flight games from every leading software developer of interactive entertainment.

For more information on Aureal and its products, visit [www.aureal.com](http://www.aureal.com).

For more information on A3D and A3D-enabled games, visit [www.a3d.com](http://www.a3d.com).



## Technical Specifications

### Audio Processor

- Aureal Vortex AU8810

### Codec

- Stereo AC '97 CODEC

### Bus Interface

- PCI 2.2 bus master interface

### Digital Audio Support

- 8 streams of A3D 1.0 and DirectSound3D support
- 16 streams of DirectSound acceleration
- Full-duplex, 48kHz digital recording and playback

### Synthesizer

- Professional 256-voice wavetable synthesizer
- Reverb and effects (chorus, delay, flange, distortion, wah-wah, etc.)
- General MIDI, DLS 1.0, DirectMusic support
- 4MB of professional studio samples

### Audio specifications

- Exceeds PC98 and PC99 audio requirements
- SNR: >92dB Typical
- Frequency Response: 20Hz–20kHz (–3dB intercept)

### Input/Output Connectors

#### Bracket connectors

- Line output
- Line input
- Microphone input
- Game/MIDI port

#### Internal connectors

(all MPC3)

- CD input

### Compatibility

- Microsoft DirectSound, DirectSound3D, DirectInput, DirectMusic
- Aureal A3D 1.0
- Sound Blaster Pro support (Real mode and DOS box)
- MPU-401 UART MIDI Interface

### Software Support

- Operating System Support
- Windows 95/98
- Windows NT 4.0
- MS-DOS (Windows DOS box)

### System Requirements

- PCI 2.2 compliant PCI slot with 3.3V power pins
- Pentium 100MHz or better
- 16MB RAM
- CD-ROM drive
- 30MB of hard disk space
- Powered speakers