



PCI-3D AUDIO ACCELERATOR

Montego II

QUADZILLA™

The total 3D gaming experience!

A3D 2.0 positional audio with four speaker support and S/PDIF digital output

High resolution 18-bit stereo recording and playback at up to 48 KHz sample rate

High-quality audio performance with 97 dB signal-to-noise ratio

320 voice PCI wavetable synthesis

DirectSound™ acceleration with multistreaming bus-mastered PCI audio

The gamer's choice for the best in 3D audio just got better. Introducing the new Montego II Quadzilla from Turtle Beach. Armed with the very latest Wavetracing™ technology, Quadzilla submerses you in the astounding 3D audio world of the hottest new games and websites with realistic three-dimensional audio images. And with stereo S/PDIF digital output, you get the best theater quality surround sound for your PC.

A3D 2.0 gives Quadzilla the power to handle up to 96 DirectSound™ streams. You'll immediately notice increased graphics card performance and rendering of audio environments, so your games will not only sound better, but will look better too.

Montego II Quadzilla will transform your PC into the ultimate gaming machine. Just what you'd expect from the leaders in award-winning PC sound technology-Turtle Beach!



Montego II Quadzilla™ PCI - 3D Audio Accelerator

Quadraphonic Positioning

Normal Stereo



A3D Surround



A3D Quadraphonic

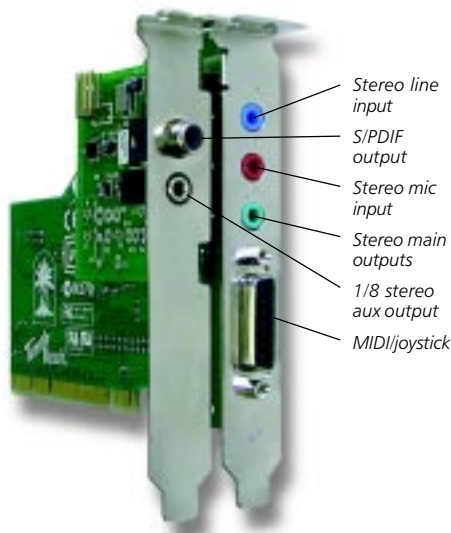


A3D 2.0 technology enables realistic 3D positional audio enhanced by a process known as Wavetracing®, which produces highly-accurate representations of how we hear sounds in the real world.

With 2-4 speakers or headphones, 3D supported games and websites take on a new realism like never before.

Why PCI accelerated audio?

A3D is a breakthrough new audio technology that enables a real-life audio experience by surrounding the listener with sounds in all three dimensions using only a single pair of ordinary speakers or headphones. A3D is based on recreating all the hearing cues that allow us to perceive sounds in everyday life. The key to A3D lies in the following fact: since we can hear sounds three dimensionally in the real world with only two ears, it must be possible to create sounds from two speakers that have the same effect.



Specifications

Bus Interface: PCI Bus master with 96 channel DMA interface insures low system overhead for audio data transfers.

Compatibility: Windows 95/98/NT4.0 (95 Plug & Play compatible).

Audio Converters: 18-bit ADC and DAC with 97dB Signal-to-Noise Ratio. Hardware-based sample rate converters for high quality digital mixing.

Signal-to-Noise Ratio: 97dB (A-weighted).

THD: Better than 90 dB (0.0032%) (A-weighted).

Stereo Crosstalk: 1 KHz (-83 dB) 100 KHz (-97 dB)

Frequency Response: 10 Hz - 20.5 KHz (+/-1 dB).

Sampling Rates: up to 48 KHz.

Games Compatibility: Compatible with all standard Windows games and most DOS games (in Real Mode DOS).

Digital Audio Processor: Hardware full-duplex for simultaneous record/playback at full bandwidth with independent record/playback rate. Auto-muting after periods of digital silence. 16 hardware digital mixers for processing PCI audio streams.

Sample Rate Converters: hardware-based sample rate converters for processing digital audio streams of different sample rates without imposing any CPU processing load.

A3D 2.0 Interactive Sound: Hardware based A3D positional audio Wavetracing® engine with wall reflections and occlusions (64 sources).

Audio Inputs/Outputs: Microphone input, stereo line input, 2 stereo line output, stereo digital audio S/PDIF output, stereo aux input on internal

Includes Voyetra's AudioStation® 32

The new AudioStation32 includes everything you need to run your multimedia PC just like a home entertainment system. An intuitive component-style interface lets you play and edit sound (WAV) and music (MIDI) files, control sound levels and even play your favorite audio CDs with your PC's CD-ROM drive — all from a single convenient interface. They're easy to control and fun to use. You'll find it's a welcome alternative to the separate utilities (Media Player, CD Player, Sound Recorder and Volume Control) supplied with Windows®.



header, CD input on internal header, modem audio in/out on internal header.

Wavetable Synthesizer: 320-voice advanced wavetable synthesis (64 hardware + 256 accelerated software) with 5 MB instrument samples stored in PC system RAM using DynamicVoice Exchange™ caching to minimize RAM requirements to only the instruments being used. Reverberation and chorus on MIDI wavetable instruments. DLS compatible for user configurable instruments. (Wavetable performance dependent on system resources).

MIDI Interface: Hardware-based MPU-401 MIDI UART-compatible interface through joystick connector.

Joystick Interface: As well as providing standard analog/digital joystick support, the digital joystick further accelerates game play by performing remote polling of the joystick position without CPU intervention.

Speaker/S/PDIF Outputs: Requires an available space for the bracket.

System Requirements

- PC equipped with Windows 95/98/NT4.0
- 75 MHz Pentium CPU or higher
- 16 MB RAM
- 4 MB required for wavetable instrument sounds)
- Hard drive with approximately 12 MB free for software installation
- Available PCI slot
- CD-ROM required for software installation
- 2-4 powered speakers or headphones

Includes

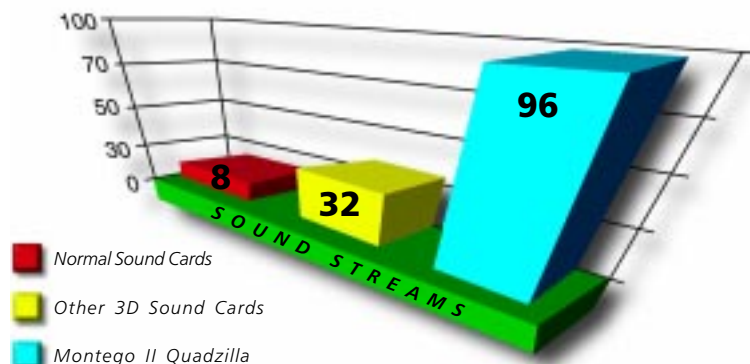
- Turtle Beach Montego II Quadzilla™ sound card
- Additional speaker output bracket for 4 speaker support with S/PDIF output for digital audio
- Turtle Beach Applications CD with Voyetra® Software Suite
- CD audio cable
- Getting Started Guide

Product Information:

- Turtle Beach Product No. TB120-3375-01
- UPC: 7 31855 03375 1
- Package Dimensions: H: 9.5" W: 15.5" D: 3.0" (24.1 x 39.4 x 7.6 cm)
- Package Weight: approx. 2 lb. (905 g)

Acceleration of direct sound streams

The Montego II Quadzilla handles 96 simultaneous digital audio sound streams and sports a 97 dB signal to noise ratio. With high-resolution 18 bit converters producing exceptional digital audio clarity supporting up to 48KHz sample rates, audio never sounded better.



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Turtle Beach™

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To order, contact your authorized Turtle Beach reseller

or call **1-800-233-9377**