4MB 64-VOICE WAVETABLE SOUND CARD

# Malibu Surround 64™

## High-performance audio for games, multimedia and MIDI music

Turtle Beach continues to bring you the best value in PC sound quality and performance with the Malibu Surround 64.™

The exceptional clarity of Malibu's 3D digital audio hardware coupled with the realistic instrument sounds from its professional-grade Kurzweil® MIDI synthesizer provide a sonic experience surpassing other sound cards in its class.

With advanced features such as an optional PCI audio accelerator, S/PDIF output for direct-to-digital recording, SRS® 3D Surround Sound, 4MB of wavetable instrument samples, and hardware-based, full-duplex record/playback, Malibu delivers performance that outclasses sound cards costing significantly more!

Malibu is also 100% compatible with DOS and Windows games and includes a value-packed software suite that turns your PC into a feature-rich multimedia, music and audio production tool.

Malibu Surround 64 is the affordable solution to the finest PC listening experience. Which is just what you'd expect from the leaders in award-winning PC sound technology—Turtle Beach!

**100% Compatible with DOS and Windows® games**

**64 voices of wavetable synthesis in Windows 95**

**Legendary Kurzweil® hardware wavetable synthesis with 4MB of instrument samples**

**S/PDIF for pure digital audio output**

**Includes Voyetra® software suite for audio production**




PC GAMES 100% COMPATIBLE

SRS everything else is only stereo

3.1/95 /NT WINDOWS COMPATIBLE PLUG & PLAY

INTERNET READY

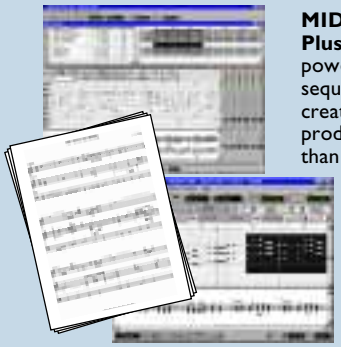
GENERAL MIDI

HARDWARE FULL DUPLEX ENHANCED

Voyetra

# Malibu Surround 64™ 4MB 64-Voice Wavetable Sound Card

## Voyetra® Software Suite



**MIDI Orchestrator Plus™:** Voyetra's powerful MIDI sequencer lets you create dynamic music productions using more than 1000 MIDI tracks. Prints sheet music from MIDI song data. Provides detailed editing of MIDI data.

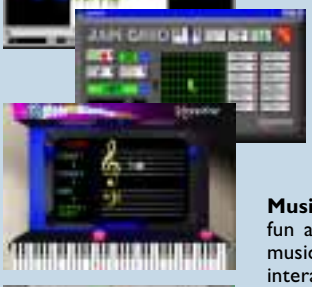


**AudioStation®** 2: Run your PC like a home stereo system with control of CD-ROM, Mixer, MIDI and Digital Audio. Create custom playlists for your WAV and MIDI files, and CD audio tracks.



**AudioView™:** digital audio editor.

**MIDI Orchestrator™:** MIDI global parameter editor.



**Jam Grid™:** interactive MIDI music maker.

**Say It!™:** embed audio notes.

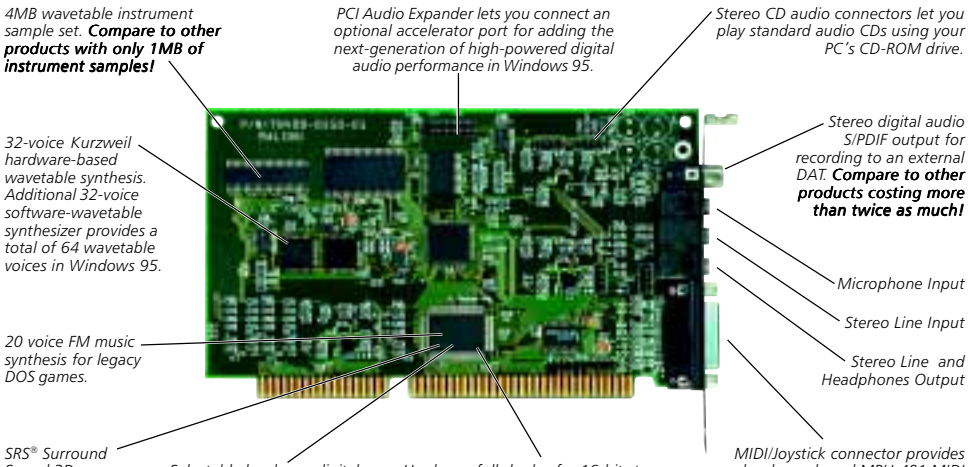


**Music Games:** Have fun and learn about music with these interactive games.



**Audio Calendar®:** desktop calendar with add audio notes.

**PLUS**... Diagnostic Utilities and a wide variety of music and audio files to help you get started right away!.




## Specifications

**Windows Compatibility:** Windows® 3.x/95/NT 4.0 (95 Plug & Play compatible), DirectSound.™

**Games Compatibility:** Compatible with Sound Blaster® Pro in the DOS environment, Microsoft® Windows® Sound System API and DirectSound in Windows

**Audio Converters:** 16-bit delta sigma ADC and DAC.

**Sample Rates:** 16-bit record and playback from 5.51 kHz to 48 kHz sample rate, mono and stereo.

**Digital Audio:** Hardware full-duplex for simultaneous 16-bit record/playback at full bandwidth.

**Audio Formats:** Supports 8-bit PCM linear, 16-bit PCM linear, μ-Law 8-bit companded, A-Law 8-bit companded, and ADPCM 4-bit IMA compatible.

**Surround Sound:** SRS® 3D spatialization enhancement.

**Digital Output:** S/PDIF output of digital audio and wavetable signals provides 44.1kHz digital audio stereo output with zero loss in quality.

**Audio Inputs/Outputs:** Mono microphone input, stereo line input, stereo line output, stereo digital audio S/PDIF output.

**Wavetable Synthesizer:** Kurzweil® hardware-based wavetable synthesis. General MIDI compatible supporting 32 voices at 44.1 kHz. 4MB instrument sample set (compressed to 2MB wavetable ROM).

**Software Synthesizer:** Software synthesizer in Windows 95 adds 32 voices for a total of 64 wavetable voices.

**FM Synthesizer:** OPL3™ compatible 20 voice FM music synthesis for DOS games compatibility. Compatible with AdLib®, Sound Blaster® Pro and Windows® Sound System™ API.

**PCI Audio Accelerator Port:** Connects to optional Malibu PCI audio accelerator card for adding high-speed DirectSound compatibility in Windows® 95. Optional Malibu PCI accelerator adds four outputs for discrete surround sound and multistreaming DirectSound acceleration in Windows 95.

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

**Joystick:** Industry-standard 15-pin digital and analog joystick support.

## System Requirements

- PC equipped with Windows 3.1/95/NT 4.0 or later
- Minimum of 486 DX2/66 (Pentium® 90 required for software synthesizer)
- 8 MB RAM (16 MB recommended)
- Hard drive w/ approx. 8 MB for software installation.
- Available 16-bit ISA slot
- CD-ROM required for software installation
- Headphones and/or powered speakers

## Includes

- Turtle Beach Malibu Surround 64™sound card
- Turtle Beach Applications CD with Voyetra Software
- CD audio cable
- Getting Started Guide

## Optional Equipment

- **PCI Audio Accelerator**
- **MIDI Controller Cable:** Connects to Joystick port to control external MIDI devices via the MIDI port.

## Product Information:

- Turtle Beach Product No. TBS-0550
  UPC: 7 31855 00550 5
- 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)

## Hear all 64 voices!

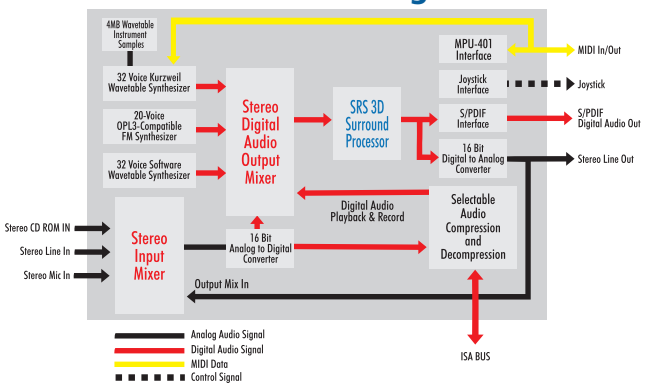
Although many sound cards have 64 voices, most MIDI files and games use no more than 32 voices, leaving the other 32 voices unused!




## VSL Technology

The Malibu's VSL driver lets you take advantage of ALL 64 voices. Pro musicians layer voices on top of each other to create a fuller sound. The Malibu's VSL driver takes advantage of this same pro technique, layering the second 32 voices over the first for a rich, full sound. When a single voice is played, the VSL driver actually triggers two voices to create an incredibly full and spacious audio experience, just like the pros!

## Malibu Surround 64 Signal Flow




Copyright © 1997 Voyetra Technologies Inc. All rights reserved. Turtle Beach, the Turtle Beach Systems Logo, Malibu Surround 64, MIDI Orchestrator, Jam Grid and AudioView are trademarks of Voyetra Technologies Inc. Voyetra, AudioStation, AudioCalendar and Say It! are registered trademarks. DirectSound is a trademark and Windows is a registered trademark of Microsoft Corp. Kurzweil is a registered trademark of Young Chang Akki Co. Ltd. Pentium is a registered trademark of Intel Corp. Sound Blaster is a registered trademark of Creative Labs, Inc. OPL3 is a trademark of Yamaha Corp. AdLib is a registered trademark of AdLib Multimedia, Inc. SRS is a registered trademark of SRS Labs, Inc. WaveStream is a trademark of Rockwell Corp. All other trademarks are the property of their respective companies and are hereby acknowledged. Board visual design, prices, package contents and specifications are subject to change without notice. Turtle Beach Systems is a division of Voyetra Technologies Inc.

P/N TBS21-0059-01

Turtle Beach Systems • 5 Odell Plaza • Yonkers NY 10701-1406 • Phone: (914) 966-0600 • Fax: (914) 966-1102

Turtle Beach™

**http://www.tbeach.com**

*To order, contact your authorized Turtle Beach reseller*

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