**32 & 16**
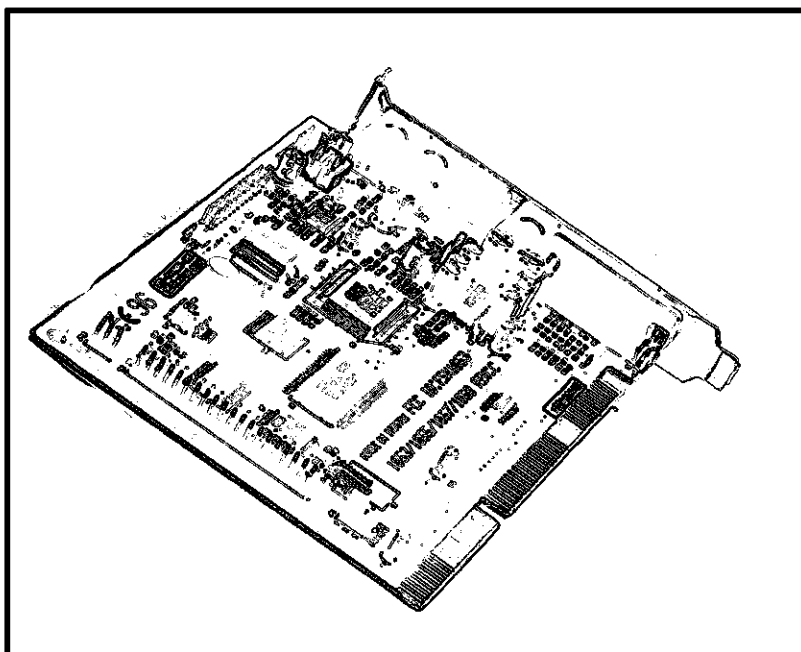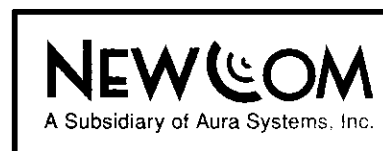


With a quality, high fidelity, state-of-the-art NewCom sound card, the audio possibilities are endless. Create rich audio effects from real world sounds for presentations, video productions, and training programs. Produce a creative mixture from several sources, including audio CD, FM synthesis, microphone, or line inputs. With the built-in MIDI interface, the computer also becomes a virtual music studio. The on-board 2 watts/channel power amplifier delivers full, rich sound for virtually all unamplified speaker systems.

NewCom's High Fidelity 32 PnP 3D Wavetable sound card is based upon an ESS Multimedia Audio Controller and codec. These integrated circuits guarantee 100% compatibility with SoundBlaster™, SoundBlaster Pro™, Adlib™, and Windows Sound System™.

Internal interface is included for most popular CD-ROM drives. External interfaces are provided for speakers, line in, microphone, and game port. IRQ lines, DMA channels, and I/O addresses are software-selectable. Moreover, its Windows '95 plug and play feature provides for a jumper-free hardware configuration and easy installation.

Our Sound Card is also available as 32 PnP Wavetable without 3D, or as a 16 bit FM Synthesis sound card.

**NEWCOM**
A Subsidiary of Aura Systems, Inc.

## 32 PnP 3D Sound Card with Wavetable

Our card's built-in wavetable uses music recorded from real musical instruments to produce excellent 3D sound.

### Features

- Bus Type: 16 bit ISA
- Windows '95 Plug N Play Ready
- Interface for standard ATAPI/IDE CD-ROM Drives
- External interfaces provided for speakers, line-in, micro phone and game/MIDI port
- Supported Standards - Adlib™, SoundBlaster™, SoundBlaster Pro™, and Windows Sound System™, DOS, MS Windows 3.1, '95, NT, IBM OS/2, Windows '95 Plug N Play ready

### 3D Effects

- True 3D Spatializer surrounding sound with Bass and Treble Control

### Wavetable

- Superior Hardware Wave Table Synthesis with 1MB ROM
- General MIDI (MPU 401) Compliant.
- General MIDI Instrument Set-128 Melodic and 47 Percussion
- 32 Note Polyphony (Voices)

### Interfaces

- Game Port Interface Connector:DB15 Type: Standard IBM PC compatible Pinout: Standard Joysticks:2
- MIDI Interface Connector: DB15 (Game Port) Type: MPU-401 UART (UART Mode), Sound-Blaster MIDI Interface Base Address: 300, 310, 320, or 330 IRQ: 5, 7, 9, 10, 11 or 12
- PC Interface Connector: 16 bit ISA IRQ"s: 5, 7, 9, 10, 11 or 12 DMA: 0, 1, or 3
- CD-ROM Interface Base Address: 170, 168, 1E8 IRQ:10, 11, 12 or 15 Data Interface: ATAPI/IDE Data Rate: Up to 1800 KB/sec (supports 2x through 12x speeds) Audio Interfaces: Mitsumi, Panasonic, and Sony (ATAPI)
- Microphone Input Connector:1/8" mini stereo jack Type: Electret Bias level: 5V Bias Impedance: 13.6K ohms
- Stereo Speaker Output Connector: 1/8" mini stereo jack RMS Power: 2 watts/channel into 8 ohms
- Stereo Line Output Connector: 1/8" mini stereo jack Minimum Load: 20K ohms Level: 2.2V p-p (maximum)
- Stereo Line Input Connector: 1/8" mini stereo jack Impedance: 100K ohms (minimum Level: 2 V p-p (max)

### Stereo Digital Audio

- Resolution: 8 bits/16 bits (Play and Record)
- Sample Rate: Selectable rates from 4kHz to 44kHz
- Dynamic Range: Greater than 80dB (Play) or 70dB (Record) THD+N: Less than -70dB (Play and Record)
- Freq. Response: 20Hz to 20kHz (+0/-3 dB)

### Stereo Audio Mixer

- Inputs: CD-Audio/Line In, DAC Output, FM Synthesis/Wavetable, MIC

### Stereo Speaker Output

- Connector: 1/8" mini stereo jack
- RMS Power: 2 watts/channel into 8 ohms

### Stereo Line Input

- Connector: 1/8" mini stereo jack
- Impedance: 100K ohms (minimum)
- Level: 2 V p-p (maximum)

### Microphone Input

- Connector: 1/8" mini stereo jack
- Type: Electret
- Bias Level: 5V
- Bias Impedance: 13.6K ohms

### Physical Specifications

- Weight: 5.5 ounces
- Dimensions: 5" H x 6.5" W x 0.88" D (includes bracket)

### Environmental Specifications

- Operating Temp: 0 to +40 degrees Celsius
- Humidity: 10% to 90% noncondensing

### Minimum System Requirements

- IBM™ 486 or higher
- 4MB of RAM (8MB preferred)
- 3.5" 1.44MB floppy drive
- VGA or higher display and adapter
- Vacant 16-bit ISA Slot
- MS DOS 5.0 or higher
- Microsoft Windows™ 3.1 or higher

## 32 PnP Sound Card with Wavetable

All of the features of our 3D wavetable sound card available without 3D effects.

## 16bit Sound Card

Our 16 bit FM synthesis card has 4 operator 20 voice FM synthesis sound reproduction for great sound in a less expensive design with interface for wavetable daughterboard.

### Features

- Bus Type: 16 bit ISA
- Windows '95 Plug N Play Ready
- Interface for standard ATAPI/IDE CD-ROM Drives
- External interfaces provided for speakers, line-in, microphone and game/MIDI port
- Supported Standards - Adlib™, Sound Blaster™, Sound Blaster Pro™, and Windows Sound System™, DOS, MS Windows 3.1, Windows '95 NT, IBM OS/2, Windows '95 Plug N Play ready

### Interfaces

- Wavetable Daughterboard Interface Connector: 26-pin header Type WaveBlaster compatible

### Stereo FM Synthesis

- Real 16 bit Stereo Sampling
- Programmable Sample Rates 4kHz-44kHz
- 4 Operators (FM)
- 20 Voices (FM)

### NewCom Customer Satisfaction

- Warranty - Limited 5-year warranty
- Tech Support - Toll-free technical support line
- Consumer Direct RMA (upon your request)
- Pricing - Competitively priced vs. any competition

LIMITED WARRANTY ONE YEAR

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