

AudioSystem EWS® 64 L/XL.

The EWS® 64 L/XL is a sound card for the ISA bus of the PC which uses the latest chip technology to provide optimum harmonising with a modern BIOS and operating system. The keyword here is “plug and play”(PnP). Under a PnP BIOS and/or Windows 95, the sound card is automatically recognised and set up in the system. You no longer need to worry about IRQ s, DMA s and I/O addresses. But even with older systems the straightforward control software makes installation a much simpler process. Digital recording and playback of sounds is achieved through both the highly integrated CODEC and the processor of the synthesizer component. Through careful card design, it has been possible to achieve a signal-to-noise ratio that is unusually high for a sound card (over 93 dB on the signal path from In-2 via the AD and DA transformers to the Out-1). Recording and playback can be carried out simultaneously up to a maximum sample rate of 48 kHz at 16 bit resolution (analog) and up to 20 bits digitally (EWS® 64 XL only) (during playback). This represents a far better performance than a CD player. In theory, playback of up to 32 tracks is possible. In practice, however, the number of tracks is limited by the speed of the ISA bus.

The synthesizer integrated in the card, with its various sample sets for downloading into the RAM, makes the AudioSystem EWS® 64 L/XL an extremely flexible top-of-the-range wave table card - which simply means that today's games are more fun! But this sound card, with its sample facilities, effects processor for all audio signals, digital audio interfaces, second MPU-401 MIDI interface and the

additional option of a customary wavetable daughterboard (a total of 32 MIDI channels), also affords the musician facilities which far outstrip previous sound cards - not to mention the 4-channel playback facility and use of the effects processor even with games running under DOS.

Full compatibility with all current standards and a connection facility for two joysticks and MIDI In/Out complete the cards hardware equipment. The 5.25” module (EWS® 64 XL only) supplied for installing at the front of your PC comes with two 5-pin DIN jacks (as well as the digital connections) so that other MIDI devices can be directly connected. This module also comes with a control amplifier with a 6.3 mm stereo jack bush to connect a headset. The various sound sources processed by the EWS® 64 L/XL can easily be controlled via a software control panel and routed to the required outputs.

Technical Specification.

Compatible with the following standards:

- Intel® Plug and Play
- Microsoft® DirectSound®
- General MIDI (with corresponding loaded sound set)
- General synthesizer (with corresponding loaded sound set)
- MPU-401® compatible
- Soundblaster®
- Soundblaster® Pro
- Adlib®
- MPC Level III
- Microsoft Sound System® 2.0
- ASIO 2.0
- AKAI™ Sample Format
- Driver for Windows 95/98/ME/NT4 and 2000

Wavetable synthesizer:

- 2MB Sample RAM onboard
- 4MB PS/2 SIMM
- Upgradeable to up to 64 MB sample RAM
- Up to 64-voice wavetable synthesizer (GM/GS sound sets for downloading)
- General MIDI (with corresponding loaded sound set)
- General synthesizer (with corresponding loaded sound set)

Effects processor:

- Various variable reverb and chorus effects
- Multiband equalizer
- Virtual 3D Sound
- Room simulations for two and four audio channels
- Effects available for all audio sources

Audio features:

- Line 1: 8/16-bit transformer components with 5KHz-48 KHz sample rate
- Line 2: 18-bit transformer components with 32/44,1/48 KHz sample rate
- Stereo microphone input with pre-amplifier
- 2 analog stereo outputs
- Analog mono input and output for PC speakers
- (EWS®64 XL only) 1 digital input to S/PDIF standard with 32/44,1/48 kHz, reversible between optical/co-axial
- (EWS®64 XL only) 2 digital outputs to S/PDIF standard with 32/44,1/48 kHz
- (EWS®64 XL only) Digital inputs and outputs available on the front panel
- Simultaneous Extended Full Duplex recording of up to 32 channels during playback
- 4-bit hardware real time compressing and decompressing ADPCM
- 8-bit hardware real time compressing and decompressing under μ-Law, A-Law CCITT standard
- Recording and playback of all audio sources

FM Synthesizer:

- 4OP+ technology
- 20-voice, stereo

Stereo Digital / Analog Mixer:

- Mixing various audio sources: microphone, CD, synthesizer, digital audio and two line-in.

MIDI Interfaces:

- 2 MPU-401® compatible MIDI interfaces (UART mode)
- Duplex MIDI for simultaneous recording and playback with up to 32 MIDI channels
- (EWS®64 XL only) 5-pin DIN jacks in the front plug-in unit for direct connection of MIDI devices

Game port for two joysticks and MIDI:

- Connection facility for two analog joysticks via Y cables

(EWS®64 XL only) Waveblaster compatible connection:

- Compatible with all TerraTec wave systems
- Compatible with most wavetable upgrades of other manufacturers (WaveBlaster compatible)

(EWS®64 XL only) Amplifier:

- Stereo control amplifier for headset output with 1 watt per channel

System requirements:

- IBM PC or compatible with Pentium or compatible processor
- 640 kB RAM for DOS installation
- 16 MB RAM for programs under Windows 95
- VGA or SVGA card with 800 x 600 pixels with minimum of 256 colours
- CD-ROM drive
- 20 MB free hard disk space