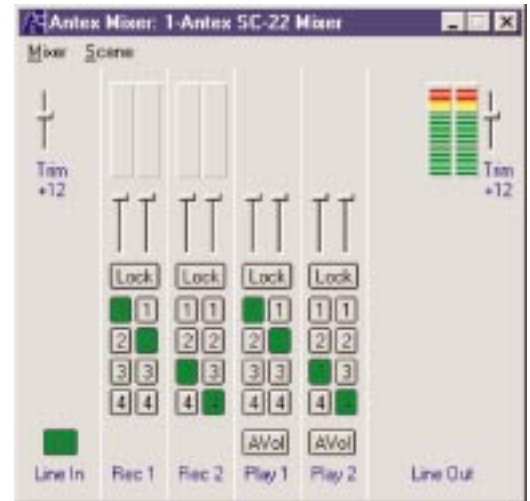


20 BIT DIGITAL AUDIO FOR VIDEO EDITING



20 Bit studio quality audio with full video synchronization

The production tool that Non-Linear Video editing professionals are asking for.

The StudioCard SC-22 is the post-production sound card that does it all. Absolute audio/video lip sync makes synchronizing audio to video automatic. StudioCard SC-22 is the only professional quality audio card to include NT drivers for both the Intel and Alpha platforms.

Add this card to your system and enter the next generation of audio for video..

StudioCard SC-22 is the perfect buy for perfect sync.

Other key features for the Non-Linear Video editing professional include:

*Hardware locking to master video clocks
(54 MHz, 27 MHz or 13.5 MHz)*

*Hardware genlock audio to
composite video input*

PCI Bus card - 32 bit data path

*Multimedia Windows NT drivers for
Intel and Alpha platforms ensure
software compatibility*

*2-channel digital audio on a single
card (2 in and 2 out)*

*Includes all cables to clock lock to common
video boards, including DPS, Matrox and others*

Supports 4 stereo tracks to/from hard disk

Professional balanced inputs and outputs, XLR connectors

Dynamic range: 96 dB typical, 92 dB minimum

*Total Harmonic Distortion plus Noise (THD+N) 0.003% typical,
0.005% max*

*Digital mixing of audio with 32-bit precision, powerful multi-
channel digital mixer/patch bay software included*

Multiple StudioCards can be clock locked with sample accuracy

Half size board for easy installation

Studio quality sound

Specifications

The StudioCard SC-22 is compatible with a wide range of professional editing, special effects, and multimedia software and hardware. Now you can produce world class, award winning audio using your favorite applications and the StudioCard SC-22

System Requirements (minimum)

- IBM-compatible personal computer with PCI interface bus.
- Pentium 120 or equivalent.
- 16 MB of RAM—32 MB suggested.
- 1 G hard disk drive.
- SVGA display.
- Windows NT 4.0

SMB-to-2 pin cable. Connects PVR 27-MHz clock to the StudioCard for AV sync internal to the PC

Cable assembly. 2 SMB-to-2 BNC to be mounted in an empty bracket at the back of the computer. Allows any video board's Hsync to be the clock reference for the audio, guaranteeing proper synchronization

Analog input/output cable. Two balanced in and two balanced out with TRS connections

Audio Input

Balanced Line (Qty=2)	
Recording Level	+4 dBu nom./+24 dBu max. (20 dB headroom)
Input Impedance	24K ohms
Connection	25-pin male D-connector or female TRS on supplied breakout cable
Unbalanced Line	
Recording Level	-10 dBV nom./+10 dBV max.
Input Impedance	12K ohms
Connection	25-pin male D-connector or female TRS on supplied breakout cable

Audio output

Balanced Line (Qty=2)	
Drive Level	+4 dBu nom./+24 dBu max. (20 dB headroom)
Output Impedance	100 ohms
Load Impedance	600 ohms or greater
Connection	25-pin male D-connector or male TRS on supplied breakout cable
Unbalanced Line	
Drive Level	-10 dBV nom./+10 dBV max.
Output Impedance	50 ohms
Load Impedance	600 ohms or greater
Connection	Male XLR on supplied breakout cable

Analog Signal Quality

Measurement Conditions:	48 kHz sample rate,-0.5 dB full scale signal amplitude, 20 to 20 kHz using an Audio Precision
A/D Conversion	20-bit, oversampling sigma delta
D/A Conversion	20-bit, oversampling sigma delta
Dynamic Range	96 dB typical/92 dB minimum from 20 to 20 kHz, input or output, A-weighted
THD+N	0.003% typical, 0.005% maximum @ 1 kHz, input or output, A-weighted
Frequency Response	20 to 20 kHz, ± 0.5 dB, input to output
Crosstalk	-88 dB @ 1 kHz, input to output

Sample Clock Generator

Type	Low jitter phase-locked loop frequency synthesizer
Reference Clock Sources	On board oscillator, NTSC or PAL composite video, internal and external TTL clock from video capture board, digital audio input
PLL Control Sources	Host computer, SMPTE, MTC
Sample Rates	Variable from 6.25 kHz to 50 kHz
External Clock Rates	24 kHz to 48 kHz word clocks, 24 kHz-54 MHz non-word clocks including 13.5 MHz, 27 MHz, and 54 MHz video pixel clocks

Signal Processor

Type	40MHz TMS320C31 32-bit floating-point DSP
Tasks	Real-time digital mixing and movement, PC messaging, system resource control (A/D, D/A, digital I/O, MIDI, and SMPTE)
Options	SPx® header provided
DSP Program	16K x 32 zero wait state SRAM
PC/DSP Shared	48K x 32 zero wait state SRAM
Interface	32-bit PCI
Data Path	Memory-mapped buffers for audio data and messaging
Tracks	4 stereo to/from disk

External Bracket Connections

25-pin Male D	Audio inputs (2)/Female TRS on provided cable assembly
	Audio outputs (2)/Male TRS on provided cable assembly

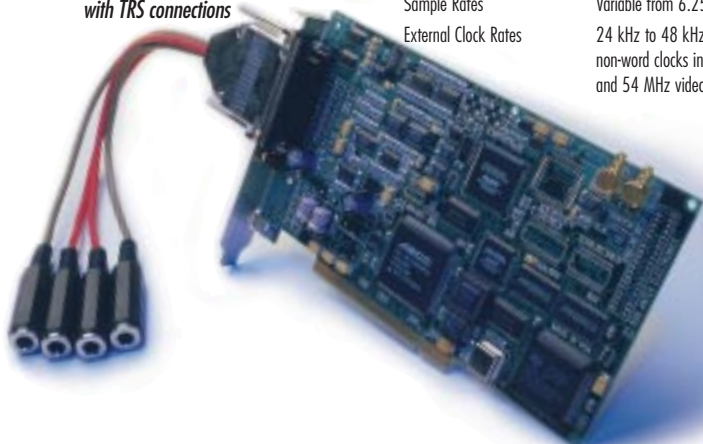
Internal Connections

The following signals are available on board-mounted SMB connectors. A 75 ohm coaxial cable set is provided for connection to video in/video out, routing signals to BNC receptacles mounted in bracket punch out.

Internal Clock Input	TTL compatible input used for synchronization to video capture clock and to synchronize multiple StudioCard cards
Internal Clock Output	TTL compatible output used for synchronization of multiple StudioCard cards as an external clock output
Composite Video Input	SMB input to horizontal sync extractor for genlocking, 75 ohm or 20 K ohm impedance
Composite Video Output	SMB output from loop through from video input, 75 ohm impedance

General

Size	7.2L x 3.74H inches
Weight	7 oz.
Operating Temp.	0°C to 70°C
Power	1A @ +5V, 300 mA @ +12V, 70 mA @ -12V



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