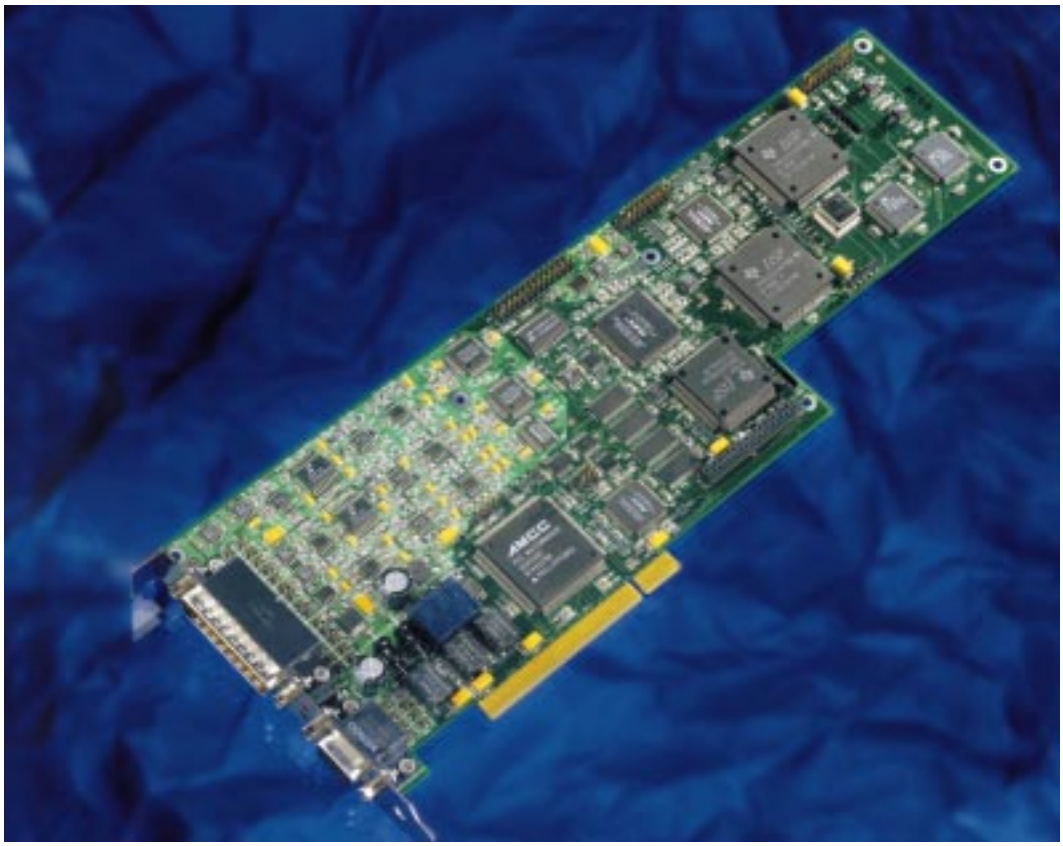
TECHNICAL DATA SHEET

ANTEX digital AUDIO

BROADCASTER™

DIGITAL AUDIO ADAPTER



6 STEREO MPEG DEVICES
SIMULTANEOUS PRODUCTION AND ON-AIR PLAYBACK
THREE 32-BIT FLOATING POINT DSPS
20-BIT A/D AND D/A CONVERTERS

The Antex Broadcaster is the most advanced and feature laden broadcast soundcard available. It transforms an off-the-shelf Windows PC into a production and playback powerhouse. Intended primarily for radio automation applications, the Antex Broadcaster provides unsurpassed digital audio support for spot and program production, on-air playback and assist, satellite distribution, and storecasting.

The Antex Broadcaster's architecture offers independent recording and playback subsystems, each with its own sample clock generator. This provides the ability to record and edit spots and phone calls while simultaneously supporting on-air playback — all with a single soundcard on a single PC. Reference sources include on-board clock, external word clock, or AES word clock and optional SMPTE LTC receiver. The Antex Broadcaster eliminates the need for separate production and playback work stations or additional soundcards, making digital broadcast systems far more affordable to develop and integrate.

T E C H N I C A L D A T A S H E E T

SERIES 2 BROADCASTER™

DIGITAL AUDIO ADAPTER

SPECIFICATIONS

PRODUCTION SUBSYSTEM

– Analog Input	Stereo balanced (0 to +24dBu software selectable trim levels)
– Analog Output	Stereo balanced (0 to +24dBu software selectable trim levels)
– Digital Input	Stereo AES/EBU or S/PDIF

PLAYBACK SUBSYSTEM

– Feedthru Input	AES/EBU digital input, stereo balanced analog for mixing feedthru signal into output stream
– Analog Output	4 balanced stereo pairs (0 to +24dBu software selectable trim levels)
– Digital Output	Stereo AES/EBU or S/PDIF output (mirrors main stereo analog output, simultaneously available). All analog outputs upgradeable to digital.

COMMON SYSTEM SPECIFICATIONS

– Sample Clock	PLL clock generation circuit. Reference sources are internal, external word, AES word. Playback clock is a selectable reference source for the Production Subsystem
– Compression	MPEG layer I and II at ISO standard bit rates, uncompressed PCM
– Sample Rates	Selectable to 50kHz, 50Hz resolution
– Audio Mixer	Production Subsystem: Two device mixing with volume and trim Playback Subsystem: Arbitrary mixing of any device with any volume to any physical output. Each output features independent trim
– Signal Quality	Dynamic Range: 92dB (record or play) Total Harmonic Distortion + Noise: 0.003% Frequency Response: 20Hz to 20kHz

SIGNAL PROCESSORS

– Type	Texas Instruments 32-bit floating point

PC INTERFACE

– Type	32-bit PCI

POWER REQUIREMENTS

– Standard PC Voltages	+5 and ±12 VDC
– Current Draw	1.4A @ +5V, 400mA @ +12V 100mA @ -12V

GENERAL

– Size	Full length PCI card
– Operating Temp	0° to 70° C
– Weight	8 oz

AVAILIABLE MODELS

– BX-12	Record and Playback - 2 in/10 out (specified above)
– BX-8	Playback only - 8 out (available October 1998)

FEATURES:

- Ultra high-speed PCI bus — six stereo devices on 5 physical outputs available simultaneously on one soundcard.
- Separate record and playback subsystems, each with independent sample clock.
- Flexible digital mixing and volume control between all channels within each subsystem.
- Supports the most popular compression formats including MPEG Layer I and II, ADPCM and more.
- Recording and production of spots and phone calls simultaneously with on-air playback on a single PC — eliminating the need for separate work stations or additional soundcards, and making digital broadcast systems far more affordable to develop and use.
- 6 stereo devices available between two subsystems.
- Three 32-bit floating point DSPs.
- 20-bit converters with an SRAM buffer depth of 384k bytes prevents dropouts in high latency networked environments.
- Optional LTC (Longitudinal Time Code) input.
- On-board header to accept an Antex daughter card that will breakout the outputs into AES/EBU digital for simultaneous, parallel access to all analog and digital outputs. This is a field upgrade and will not require returning the card to Antex.
- Optional General Purpose opto-isolated 16-bit digital I/Os, with a serial data stream to allow system integrators future expansion for controlling keypad switches, user interface functions, timers and other broadcast installation functions.
- Drivers are available for Windows 95/98, Windows NT.
- Strict adherence to Microsoft WAV standards allows compatibility with a broad range of applications. A high level Software Developers Kit (SDK) simplifies utilization of advanced features.

APPLICATIONS:

- Broadcast automation
- Digital audio mastering and recording
- Kiosks and other integrated computer audio systems

SOFTWARE:

Antex Broadcaster driver software allows an application program to provide direct-to-disk digital sound sampling and reproduction. When used in conjunction with the Broadcaster's Software Developers Kit (SDK), system integrators can add to their application programs high performance digital audio record, play and mixing functions featuring the most advanced compression algorithms.

Call Antex Electronics today for information on our complete line of digital audio products and custom product development services.

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