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Find the *Audioscience ASI6244* at our website: ***Click HERE***

PRELIMINARY

ASI6244

MULTISTREAM AUDIO ADAPTER

DESCRIPTION

The ASI6244 is a professional PCI audio adapter designed for use in the broadcast and entertainment markets.

It is based on the TMS320C6711 VLIW floating point DSP which runs at 150MHz and offers a peak of 900MFLOPs.

Both balanced analog and AES/EBU I/O is provided as standard. The AES/EBU maybe configured as S/PDIF under software control.

MRX technology allows multiple streams of different format and sample rate to be digitally mixed.

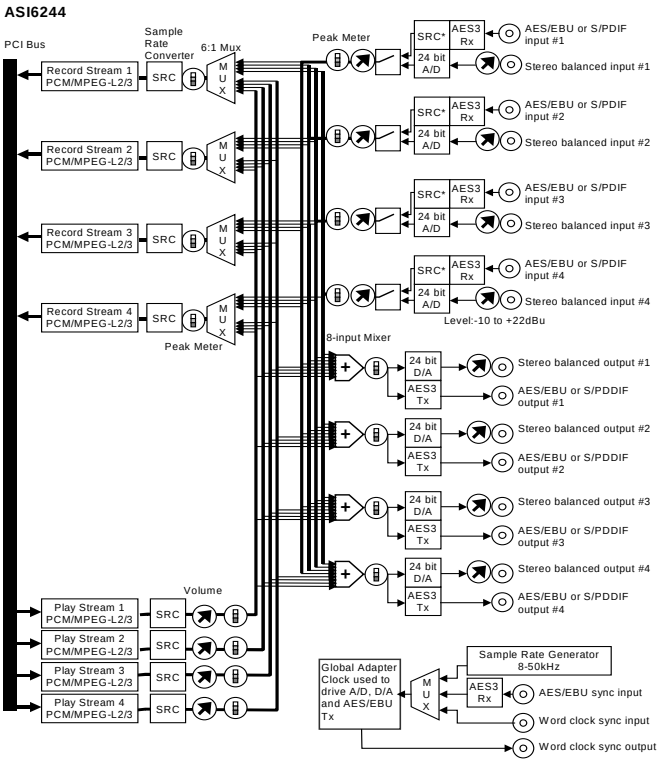
A choice of 16bit PCM, MP3 or MPEG layer 2 compression is available on all streams. A multi-rate digital mixer allows streams of different sample-rates and formats to be mixed together and sent to both analog and digital AES/EBU outputs

Synchronization capabilities include an AES/EBU sync input and Word clock input and output.



FEATURES

- Four stereo streams of MP3, MPEG Layer2 or PCM playback into four stereo outputs
- Four stereo streams of MP3, MPEG Layer2 or PCM record.
- MRX™ technology supports digital mixing of multiple stream formats and sample rates.
- Four stereo balanced analog and digital play outputs. Four balanced stereo analog and digital inputs.
- 24bit analog-to-digital and digital-to-analog converters - 100dB SNR and 0.002% THD+N
- AES/EBU and S/PDIF digital audio input and output (software selectable) with sample rate converters on all inputs.
- AESEBU and Word clock Sync input allows adapter clock and AES/EBU outputs to be synchronized to external references
- SoundGuard™ transient voltage suppression protects against lightning and other high voltage surges on all I/O
- Up to 8 cards in one system.
- Windows 98/NT/2000/XP and Linux software drivers available.



SPECIFICATIONS

ANALOG INPUT/OUTPUT

Type	Balanced
Connector	Mini50(SCSI-II type)
Input Level	-10 to +22dBu in 0.5dBu steps
Input Impedance	20K ohms
A/D converter	24bit Oversampling
Output Level	-10 to +22dBu in 0.5dBu steps
D/A converter	24bit Oversampling
Load Impedance	600ohms or greater
S/N Ratio[1]	100dB (record or play)
THD+N[2]	0.002% (record or play)
Sample Rates	8 to 48kHz with 100Hz resolution
Frequency Response	20Hz to 20kHz +/-0.2dB

DIGITAL INPUT/OUTPUT

Type	AES/EBU (EIAJ CP-340 TypeI / IEC-958 Professional) S/PDIF (EIAJ CP-340 TypeII / IEC-958 Consumer) (software selectable)
Connector	Mini26(SCSI-II type)
Sample Rates	32, 44.1 and 48kHz with sample rate converter on inputs

SAMPLE RATE CLOCK

Internal	8 to 48kHz with 100Hz resolution
AES/EBU In	Dedicated AES/EBU clock input
Word In	External and Internal board-to-board link
Word Out	External and Internal board-to-board link

SIGNAL PROCESSING

DSP	Texas Instruments TMS320C6711@150MHz
Memory	8MB
Audio Formats	8 bit unsigned PCM 16bit signed PCM MPEG-1 Layer 2 MPEG-1 Layer 3(MP3) (MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and THOMSON multimedia)

BREAKOUT CABLES (INCLUDED)

Analog	CBL1004 : Mini 50 to Centronics 50 adapter. CBL1014: Centronics 50 to 2 in and 8 out XLR.
Digital	CBL1101: Mini 26 to Centronics 50 adapter. CBL1114: Centronics 50 to 1 in, 4 out XLR, 1 BNC in, 1 BNC out (Word Clock).

GENERAL

Bus	Universal 32bit PCI (3.3V or 5V signaling)
Dimensions	PCI form factor - 10" x 3.9" x 0.6" (255mm x 100mm x 15mm)
Weight	8 oz (227g) max
Operating Temperature	0C to 70C
Power Requirements	+3V@1A, +5V @ 350mA, +12V @ 500mA, -12V @ 180mA (if no 3V is available then the board may be powered from a +5V only PCI bus, using jumper J9)

[2] - THD+N measured using a +14dBu 1kHz sinewave sampled at 48kHz and A weighting filter
[1] - S/N Ratio is the difference between a 1kHz +14dBu sinewave and digital zero using an A weighting filter

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