

**DESCRIPTION**

The ASI6012 is a professional PCI audio adapter designed for use in radio broadcast automation.

The ASI6012 offers four or six (software selectable) play streams that are mixed to two balanced stereo outputs. One record stream is fed from one balanced stereo input.

A choice of 16bit PCM, MPEG layer 2 and MP3 compression is available on all playback streams. Record formats include PCM16, MPEG layer 2 and MP3.

MRX multi-rate mixing technology allows streams of different sample-rates and formats to be mixed digitally.

TSX timescaling allows compression/expansion of any or all playback streams in real time with no change in pitch.

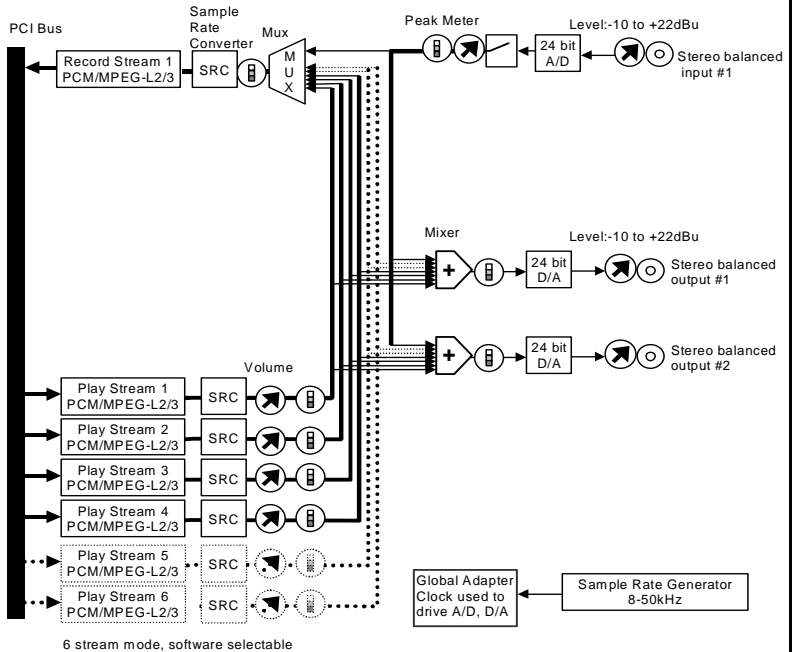
Synchronization capabilities include an AES/EBU sync input and Word clock input and output.

**FEATURES**

- Four/six stereo streams playback into two stereo outputs
- One stereo stream of record.
- Formats include PCM16, MPEG layer 2 and MP3
- MRX™ technology supports digital mixing of multiple stream formats and sample rates.
- TSX™ timescaling allows compression/expansion of play streams by up to +/-20% with no pitch shift.
- Two stereo balanced analog and digital play outputs. One balanced stereo analog input.
- 24bit analog-to-digital and digital-to-analog converters: 100dB SNR and 0.002% THD+N
- SoundGuard™ transient voltage suppression protects against lightning and other high voltage surges on all I/O
- Up to 8 cards in one system.
- Windows 95/98,NT, 2000,XP and Linux software drivers available.



**ASI6012**



## 1. 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	32,44.1,48kHz
Frequency Response	20Hz to 20kHz +/-0.2dB

### SAMPLE RATE CLOCK

Internal	32, 44.1, 48kHz.
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### SIGNAL PROCESSING

DSP	Texas Instruments TMS320C6713@225MHz
Memory	8MB
Audio Formats	8 bit unsigned PCM 16 bit signed PCM 32 bit floating point 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 (NOT INCLUDED)

Analog	CBL1022 : Mini DB50 to 4 XLR in and 4 XLR out.
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### GENERAL

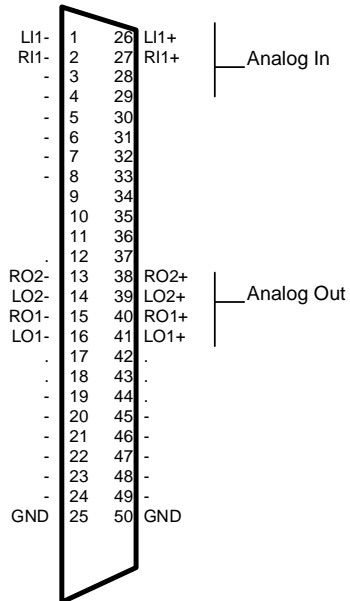
Bus	Universal 32bit PCI (3.3V or 5V signaling)
Dimensions	PCI form factor - 10" x 3.9" x 0.6" (255mm x 100mm x 15mm)
Weight	8 oz (227g) max
Operating Temperature	0C to 70C
Power Requirements	+3V @ 1A, +5V @ 300mA, +12V @ 200mA, -12V @ 100mA (if no 3V is available then the board may be powered from a +5V only PCI bus)

[2] - THD+N measured using a +14dBu 1kHz sine wave sampled at 48kHz and A weighting filter

[1] - S/N Ratio is the difference between a 1kHz +14dBu sine wave and digital zero using an A weighting filter

## 2. CONNECTORS

Mini 50pin - Analog



[end]