

DESCRIPTION

The ASI6620 is a professional PCI-Express sound card designed for use in radio broadcast automation.

Providing 6 play streams that are mixed to 2 balanced stereo outputs and 4 record streams fed from 2 balanced stereo inputs, the ASI6620 features AudioScience's unique "anything to anywhere" mixing and routing.

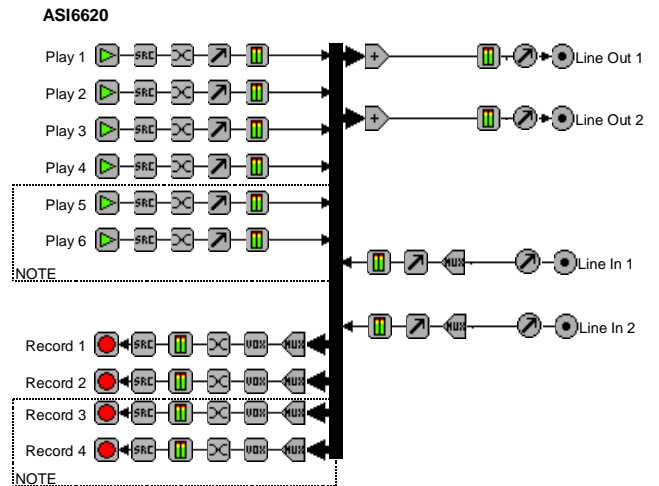
The ASI6620 provides both balanced analog inputs and outputs. The maximum analog input and output level is +24dBu.

A choice of uncompressed PCM, MPEG layer 2 and MP3 is available for both recording and playback. All compression is handled by an on-board floating point DSP, allowing the host computer to focus on other tasks.

ASI6620 functionality includes MRX™ multi-rate mixing technology, which allows streams of different, sample-rates and formats to be mixed digitally. TSX™ time scaling allows compression/expansion of any or all playback streams in real time with no change in pitch.

FEATURES

- 4/6 mono/stereo streams of playback into 2 stereo outputs
- 4 mono/stereo streams of record from 2 stereo inputs
- Formats include PCM, MPEG layer 2 and MP3 with sample rates to 96kHz
- MRX™ technology supports digital mixing of multiple stream formats and sample rates
- TSX™ time scaling allows compression/expansion of play streams by up to +/-20% with no pitch shift
- Balanced stereo analog inputs and outputs with levels to +24dBu
- 24bit ADC and DAC with 110dB SNR and 0.0015% THD+N
- SoundGuard™ transient voltage suppression on all I/O
- Short length PCI card format (6.6 inches/168mm)
- Up to 4 cards in one system
- Windows 2000, XP and Linux software drivers available



NOTE: Available in 6 Play/ 4 Record stream mode

1. SPECIFICATIONS

ANALOG INPUT/OUTPUT

| | |
|-------------------------|--|
| Type | Balanced |
| Connector | Mini50 (SCSI-II type) |
| Input Level | -10 to +24dBu in 0.5dBu steps |
| Input Impedance | 10K ohms |
| A/D converter | 24bit oversampling |
| Output Level | -10 to +24dBu in 0.5dBu steps |
| D/A converter | 24bit oversampling |
| Load Impedance | 600ohms or greater |
| Dynamic Range [1] | >110dB (record or play) |
| THD+N [1] | <-96dB (0.0015%) (record or play) |
| Frequency Response | 20Hz to 20kHz +0/-0.2dB 20Hz to 40kHz +0/-3dB |
| Inter-channel Phase | <0.1 degrees (record or play) |
| Inter-channel Crosstalk | >110dB (record or play) |

SAMPLE RATE CLOCK

| | |
|----------|------------------------------|
| Internal | 32, 44.1, 48, 88.2 and 96kHz |
|----------|------------------------------|

SIGNAL PROCESSING

| | |
|---------------|--|
| DSP | Texas Instruments TMS320C6713@300MHz |
| 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 | CBL1004: Mini 50 to Centronics 50 adapter. CBL1044: Centronics 50 to 8 in and 8 out XLR. |
|--------|---|

GENERAL

| | |
|-----------------------|---|
| Bus | X1 PCI-Express. |
| Dimensions | PCI short-length form factor (6.6 inches/168mm long). |
| Weight | 8 oz (227g) max |
| Operating Temperature | 0C to 70C |
| Power Requirements | +3.3V@1.5A +12V @ 400mA |

[1] – Dynamic Range and THD+N measured using a +20dBu 1kHz sine wave sampled at 48kHz and A weighting filter.

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