



# ASI4503

## 4-Play MPEG Audio Adapter

RHG/SGT 7-Apr-04

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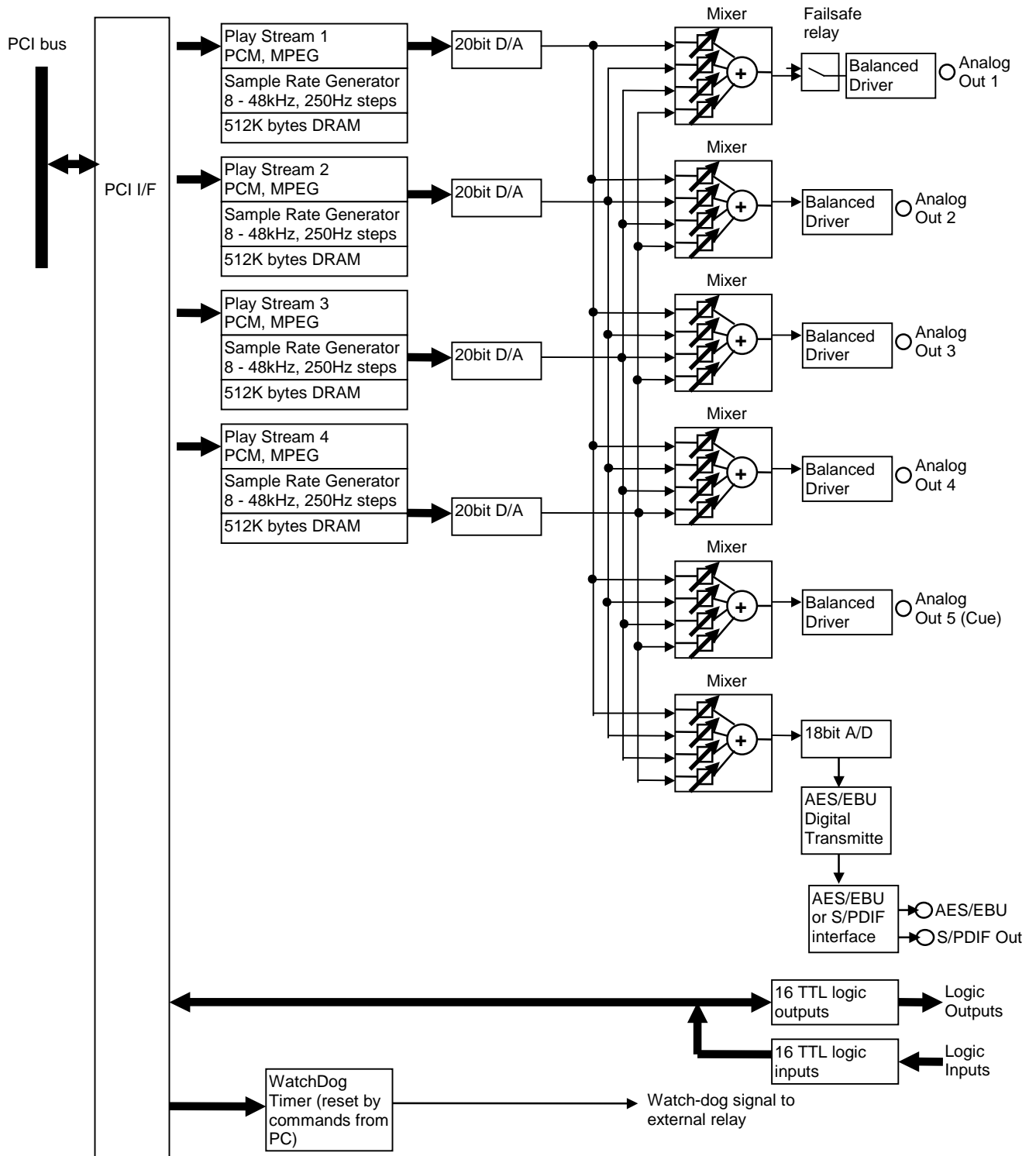
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### 1. FEATURES

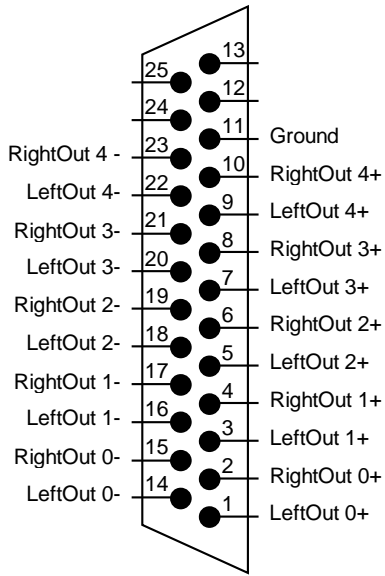
- PCI Bus based adapter.
- (4) Play streams.
- Streams maybe defined as mono or stereo.
- Each stream will have independent sample rate, format, channels.
- Formats supported will be 8bit PCM8, 16bit PCM, MPEG1 Layer I and II.
- (5) physical (analog) stereo outputs, and (1) digital output.
- Analog outputs are balanced with software adjustable levels ( 0 to +20dBu max.)
- Digital output supports both AES/EBU and SP/DIF interface formats.
- Software selectable sample rates (VFO) from 8kHz to 48kHz with 250 Hz resolution, in PCM and MPEG play back.
- 4 Mbyte on board RAM for audio data buffering.
- Polled or interrupt driven.
- Mixer allows any or all (4) play back streams to be directed to any or all (6) outputs.
- Dynamic range and signal to noise ratio greater than 90 dB.
- Software readable serialization.
- The ASI4503 adapters will carry the Scott Studio name as specified by Scott Studios.
- Watch dog functionality allowing hardware reset of the PC (provided via 2 pin header).
- (16) TTL logic inputs and (16) TTL logic (open collector) outputs available via 40 pin header on adapter.
- Analog output connector is a 25 Pin Din.
- Digital output connector is a 9 Pin Din.
- In the case of power loss the record input will be connected to the physical channel (1) output via relay.
- Low level driver software (HPI) will allow adapter operation under Windows NT.
- Header for future APT daughter board.
- On board master clock

## 2. Functional Block Diagram

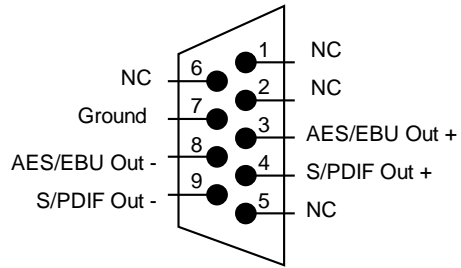


### 3. Connectors

The connector used for analog I/O is a 25pin DB female mounted on the bracket of the adapter. The connector used for digital I/O is a 9 pin DB male. Their pinouts are as follows:

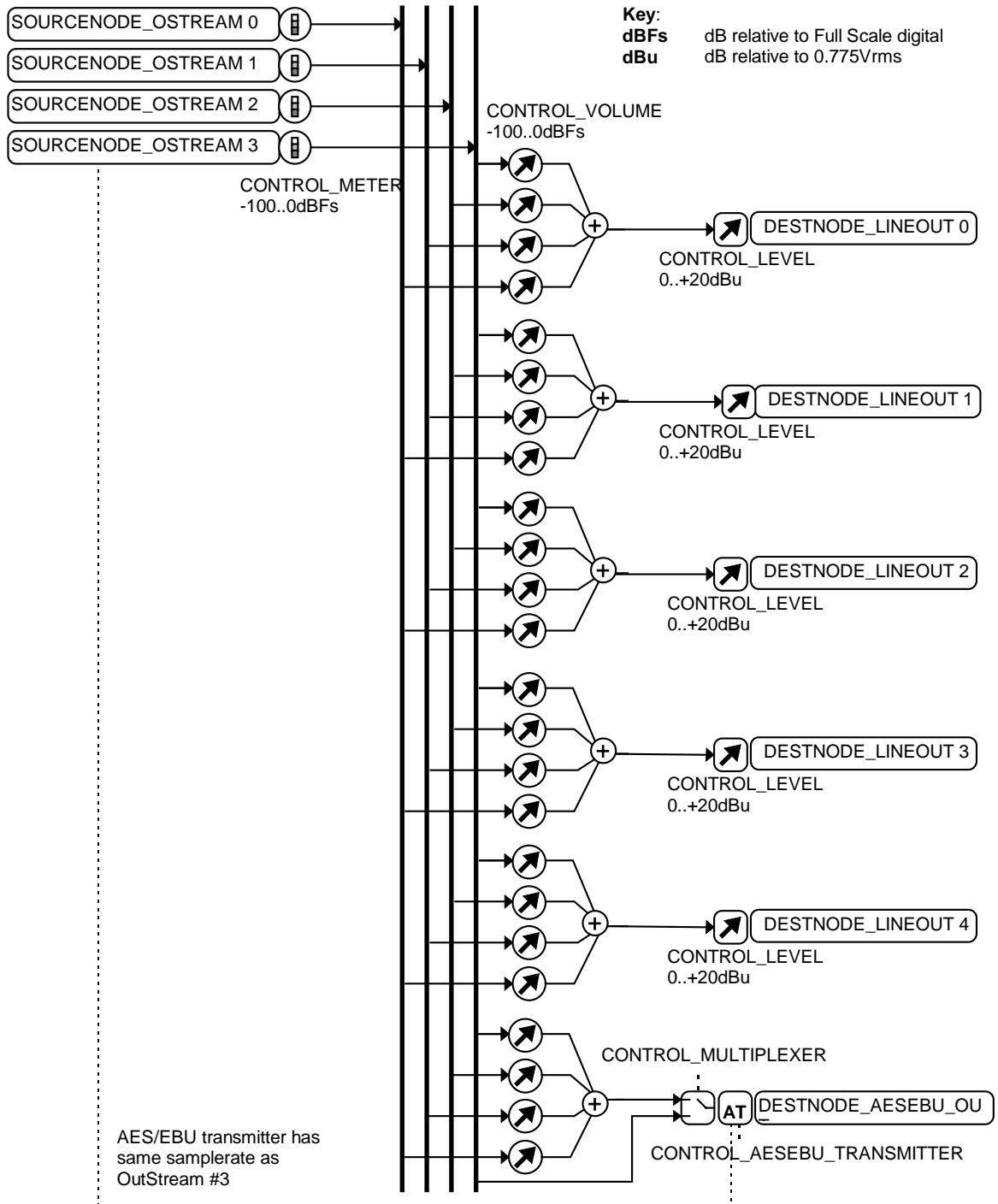


**Analog - 25pin DB female**



**Digital - 9pin DB male**

# 4. Mixer Map



[end]