



ASI4502

1-Record/ 1-Play MPEG Audio Adapter

PRELIMINARY
RHG/SGT 12-Apr-04

1. FEATURES 1

2. FUNCTIONAL BLOCK DIAGRAM..... 2

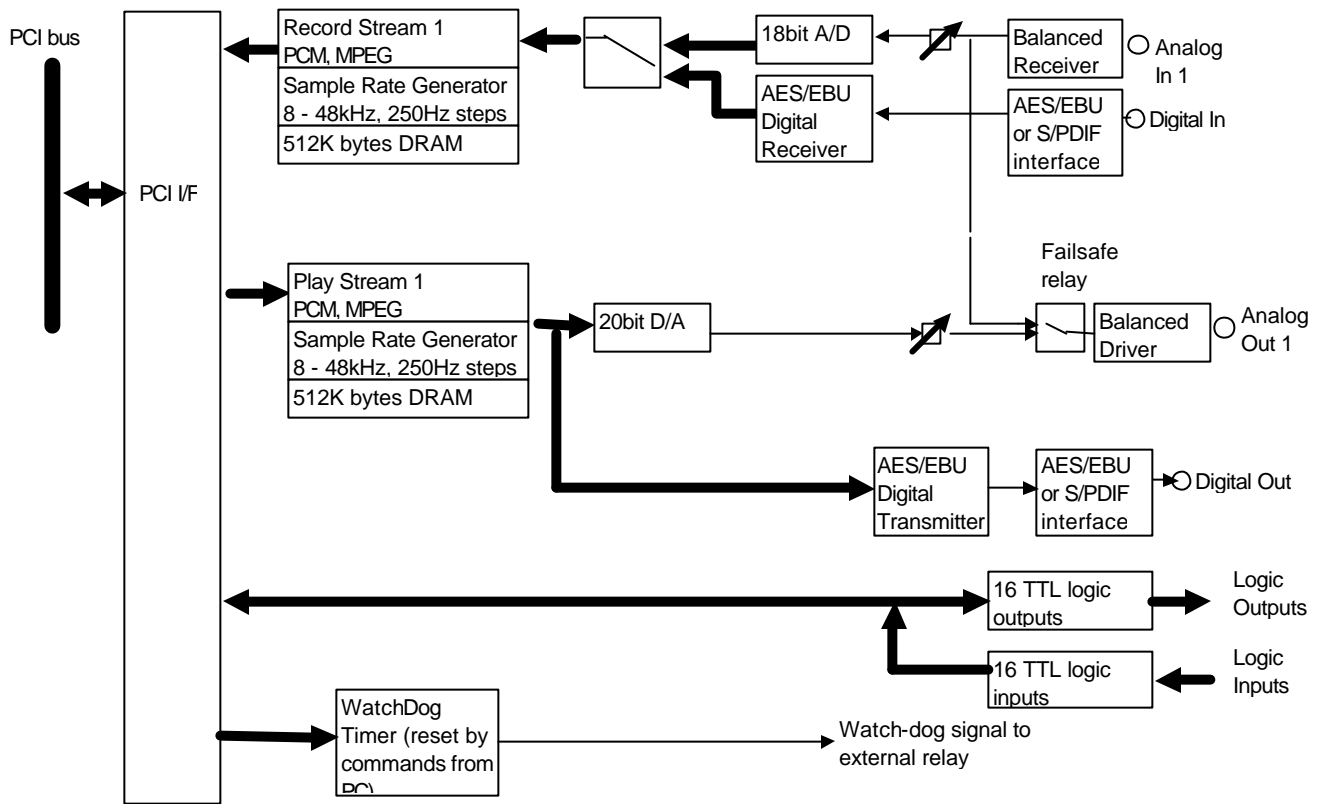
3. CONNECTORS 2

4. MIXER MAP..... 3

1. FEATURES

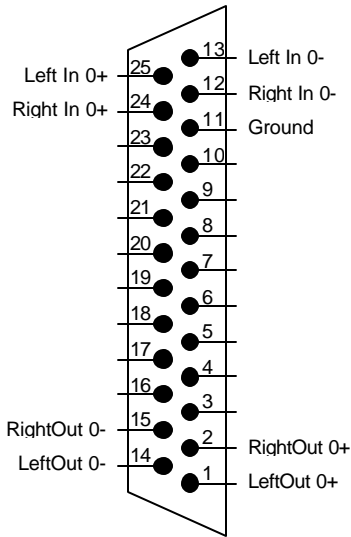
- ?? PCI Bus based adapter.
- ?? (1) Stream which may be either record or play.
- ?? Streams maybe defined as mono or stereo.
- ?? Formats supported will be 8bit PCM8, 16bit PCM, MPEG1 Layer I and II.
- ?? (1) Physical (analog) stereo input, (1) digital input, (1) physical (analog) stereo output, and (1) digital output.
- ?? Analog input/output is balanced with software adjustable levels (0 to +20dBu max.)
- ?? Digital input/output support 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.
- ?? MPEG will record (3) Software selectable sample rates, 32kHz, 44.1kHz, and 48kHz.
- ?? 4 Mbyte on board RAM for audio data buffering.
- ?? Polled or interrupt driven.
- ?? Dynamic range and signal to noise ratio greater than 90 dB.
- ?? Software readable serialization.
- ?? The ASI4502 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 input/output connector is a 25 Pin Din.
- ?? Digital input/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

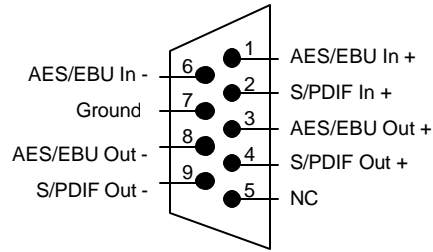


3. CONNECTORS

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:

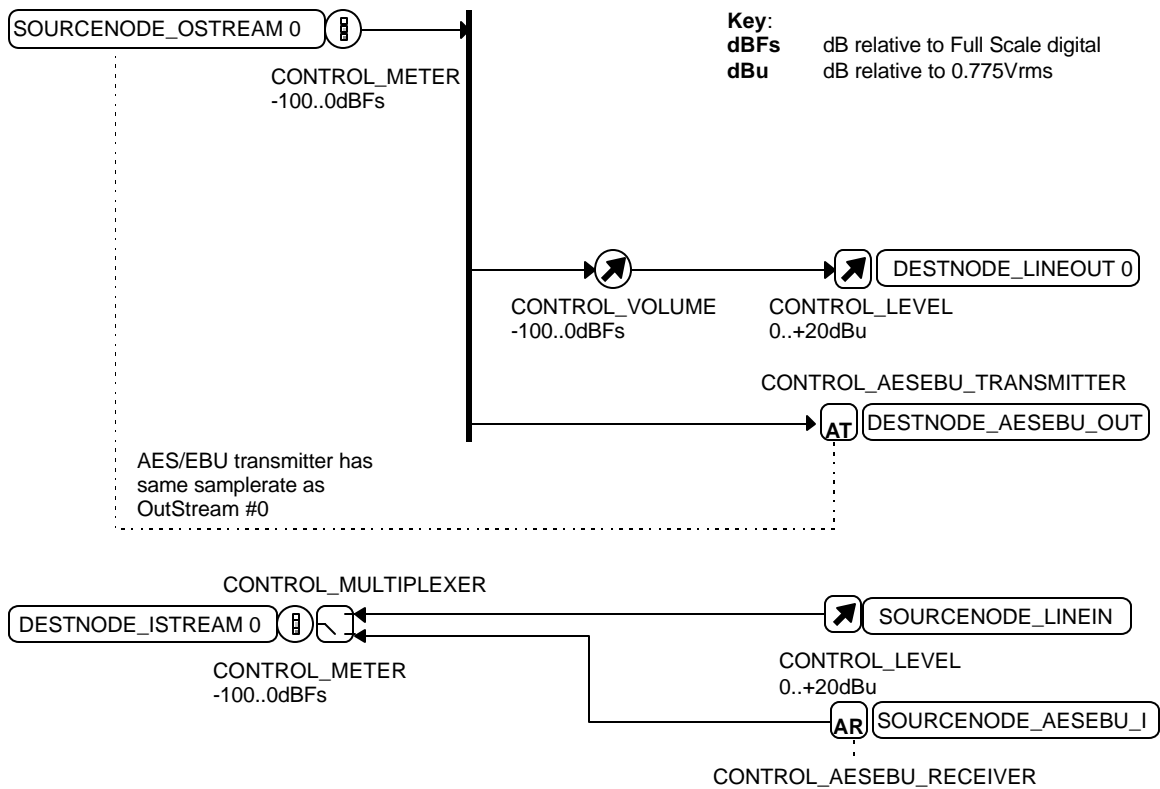


Analog - 25pin DB female



Digital - 9pin DB male

4. MIXER MAP



[end]