

AES DA + ADC

Preliminary Specifications

SBC



Features

- Dual input 4 output AES DA
- Optional AES re-sampling (internal 48KHz or second AES input reference)
- Supports incoming AES sampling rates (8 to 96KHz)
- Selectable input
- Channel swapping, phase inversion, muting & amplitude control
- 4 channel (two stereo pair) analog output
- high performance 24-bit Digital to Analog converters
- Internal test tone generator
- Front panel stereo headphone monitoring (3.5mm stereo socket)
- Graphical Front Panel
- Web based monitoring & control

Description

The Digital Audio DA + ADC combines a 4 output AES distribution amplifier with a high quality 4 channel (2 stereo pair) analog to digital converter. The DA is capable of substantial audio processing, including pair swapping, channel attenuation, phase shifting, muting, test tone insertion etc. Detection and alarm routines such as silence & audio level are also possible. The front panel or web control allows control over input to output routing, behavior upon input loss and the enabling of re-locking functions.

Specifications

Electrical Inputs

Number of Inputs	2
Data Rate	8-96Kbps
Standard	AES3
Signal Amplitude	0.2 to 7 Vp-p
Re-sampling	optional 48KHz (free running or locked to input 2)
Equalization	>200m high quality 110 ohm balanced shielded cable
Impedance	Balance 100 ohm
Connectors	Three pin Phoenix

AES Electrical Outputs

Number of Outputs	4
Signal level	4 Vp-p +/- 1 Vp-p
Impedance	110 ohm balanced
Connectors	Three pin Phoenix

Analog Audio Inputs

Number of Inputs	4 (two stereo pairs)
Resolution	24-bit @ 48KHz
Frequency Response	20Hz- 20KHz +/- 0.1dB
THD+D	> -100dB
Dynamic range	>110dB
Impedance	Hi-Z
Connectors	Three pin Phoenix

Headphone Monitor Output

Number of Outputs	1 front panel monitor
THD+N	Typically 0.1% @ 1KHz
Signal level	120mW maximum into 32ohms
Impedance	low
Connectors	3.5mm stereo socket

Alarm & Control Interface

Graphical front panel display
Embedded Web server with 10/100 UTP Ethernet
RJ45 UTP on rear assembly
Major & minor alarm relay contacts (rear assembly)

Compatibility

Compatible with all SBC modules supporting digital video interfaces
Compatible with SBC 3RU, 84HP Eurocard frame
Compatibility with third party frames upon request.

