

Digital Audio DA

Preliminary Specification

SBC



Features

- Dual balanced AES Inputs
- Supports incoming AES sampling rates (8 to 96KHz)
- 8 AES balanced outputs (Dual 4 output banks)
- Input failure switching (control setting)
- Channel swapping, phase inversion, muting & amplitude control
- 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 is a universal distribution amplifier for AES3 digital audio formats. The DA is capable out 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 reclocking 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	8 (two independent banks of 4 outputs)
Signal level	4 Vp-p +/- 1 Vp-p
Impedance	110 ohm balanced
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 audio interfaces
Compatible with SBC 3RU, 84HP Eurocard frame
Compatibility with third party frames upon request.

