

Analog Audio Distribution Amplifier

500ADA-AUD

The 500ADA-AUD Analog Audio Distribution Amplifier is a general purpose 1x4 amplifier for distributing analog audio signals.

The 500ADA-AUD can be operated with either differential or single ended inputs and offers a wide range of gain adjustment to handle a wide variety of input signals.

The 500ADA-AUD is housed in the 500FR *exponent* frame that will hold up to 16 modules.

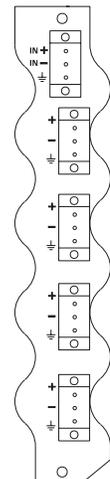
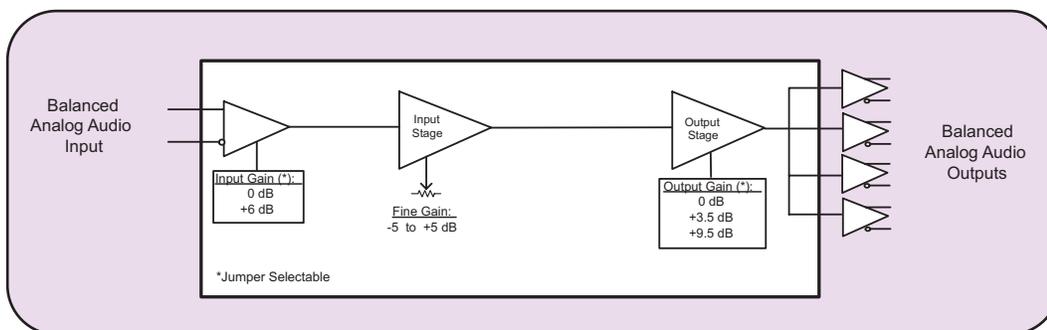
Features

- Differential and single ended input (automatic single ended to differential conversion)
- High impedance inputs
- Low impedance outputs
- Wide gain adjustment range
- High common mode range and common mode rejection ratio
- Very high SNR
- Very low THD+N

Card Edge LEDs:

- Module status/Local Fault
- Power supply status

500ADA-AUD Block Diagram



Specifications

Analog Audio Input:

Standards:	Any analog audio signal
Number of inputs:	1 (Balanced or Single ended)
Connectors:	3 pin removable terminal strips
Input step gain:	0 dB or +6 dB (configurable with jumpers)
Fine gain control:	-5 to +5 dB (card edge pot adjustable)
Maximum input level:	
0 dB input gain	+34 dBu
+6 dB input gain	+28 dBu
Common mode rejection:	> 105 dB @ 60 Hz
Common mode range:	
0 dB input gain:	> ±22 V
+6 dB input gain:	> ±7 V
Input impedance:	
0 dB input gain:	44 kΩ
+6 dB input gain:	26 kΩ

Analog Audio Outputs:

Number of Outputs:	4
Connectors:	3 pin removable terminal strips
Output step gain:	0, 3.5 or 9.5 dB (configurable with jumpers)
Max. output level:	+28 dBu across hi-impedance load +24 dBu into 600 ohm load
Output impedance:	66Ω

Freq. Response:	+/-0.03 dB 20 Hz to 20 kHz
THD+ Noise:	0.001% 20 Hz to 20 kHz @ 28 dBu, unweighted RMS
Output Isolation:	> 100 dB @ 1 kHz, 100 dB @ 20 kHz

Electrical:

Voltage:	+ 12VDC
Power:	6 Watts

Physical:

Number of slots:	1
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Ordering Information:

500ADA-AUD	Analog Audio Distribution Amplifier (1 x 4)
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Enclosures:

500FR	<i>exponent</i> Compact High Density Distribution Frame
S510FR	Standalone enclosure