7700ADA-AUD
Balanced Analog Audio Distribution Amplifier

The 7700ADA-AUD Dual Analog Audio Distribution Amplifier is a general purpose amplifier for distributing analog audio signals. It can be operated as two independent 4 output amplifiers for stereo signals, or as a single amplifier with 8 outputs where higher fanout is required.
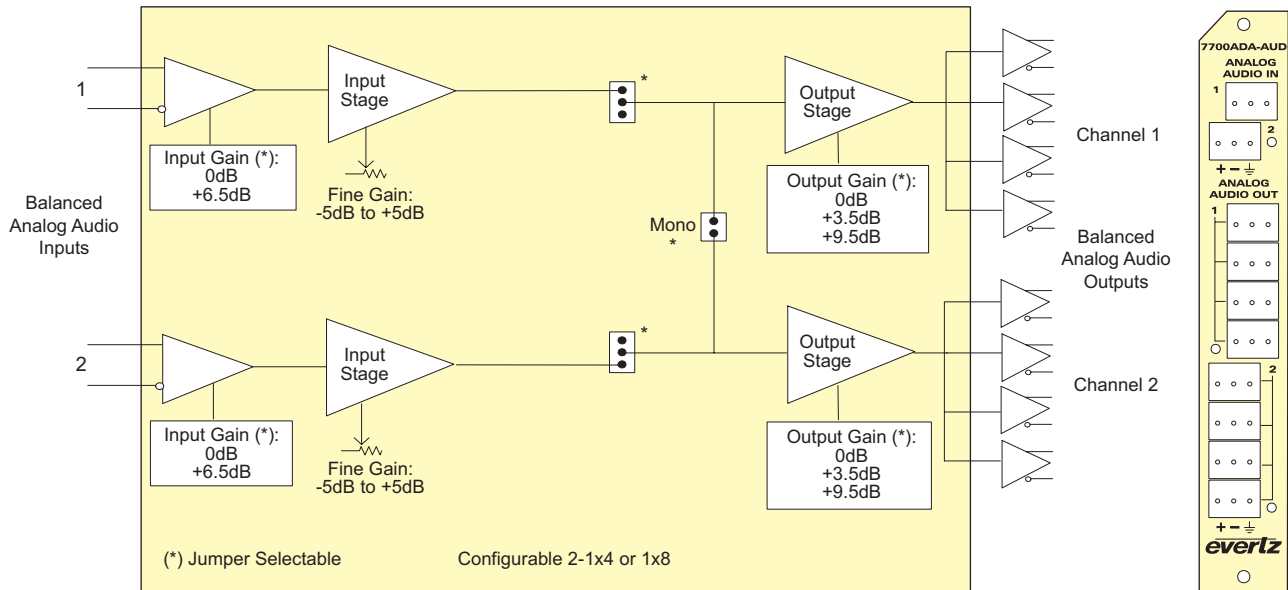
The 7700ADA-AUD can be operated with either differential or single ended inputs and offers a wide range of gain adjustment to handle a wide variety of input signals.

▶ Features & Benefits

- Differential and single ended input (automatic single ended to differential conversion)
- Configurable for stereo (2-1x4) or mono (1x8)
- High impedance input
- Low impedance outputs
- Wide gain adjustment range
- High common mode range and common mode rejection ratio (CMRR)
- Very high SNR
- Very low THD+N

Card Edge LEDs
- Module status/Local fault

(*) Jumper Selectable   Configurable 2-1x4 or 1x8

▶ Specifications

Analog Audio Input:

Standards:	Any analog audio signal
Number of inputs:	2 (Balanced or Single ended)
Connectors:	3-pin removable terminal strips
Input step gain:	0dB or +6.5dB (configurable with jumpers)
Fine gain control:	-6.5dB to +9.5dB (card edge pot adjustable)
Max input level:	
0dB input gain:	+34dBu
+6.5dB input gain:	+28dBu
Noise floor:	-87dBu (0dB input gain), -91dBu (+6.5dB input gain jumper setup)
Common mode rejection:	
	> 115dB @ 60Hz, 90dB @ 20kHz (tested with +28dBu CM input)
Common mode range:	
0dB input gain:	> ±22V
+6.5dB input gain:	> ±7V
Input impedance:	
0dB gain	33kΩ
+6.5dB gain	18kΩ

Analog Audio Outputs:

Number of Outputs:	
Stereo Mode:	4 outputs each on left and right channels
Mono Mode:	8 outputs
Connectors:	3-pin removable terminal strips
Output step gain:	0, 3.5 or 9.5dB (configurable with jumpers)
Max output level:	+28dBu across hi-impedance load +24dBm into 600Ω load
Output impedance:	66Ω
Frequency Response:	±0.02dB 20Hz to 20kHz
Stereo phase mismatch:	
	< 1° @ 20kHz
SNR:	
0dB input gain:	115dB
+6.5dB input gain:	119dB
THD+ Noise:	0.001% 20Hz to 20kHz @ 28dBu, unweighted RMS, Hi-Z load 0.01% with 600Ω up to 24dBm
Intermodulation Distortion:	
	0.001% - SMPTE @ 18dBu
Stereo crosstalk:	> 115dB @ 1kHz, > 93dB @ 20kHz
Output Isolation:	> 110dB @ 1kHz, 100dB @ 20kHz

Electrical:

Voltage:	+12V DC
Power:	12W
EMI/RFI:	Complies with FCC Part 15, Class A, EU EMC Directive

Physical (number of slots):

350FR:	1
7700FR-C:	1
7800FR:	1

▶ Ordering Information

7700ADA-AUD	Balanced Analog Audio Distribution Amplifier (Configurable 1x8 or 2-1x4)

Ordering Options	Rear Plate must be specified at time of order Eg: Model +3RU

Rear Plate Suffix	
+3RU	3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR Multiframe
+1RU	1RU Rear Plate for use with 7701FR Multiframe
+SA	Standalone Enclosure Rear Plate

Enclosures	
350FR	3RU Portable Multiframe which holds up to 7 single slot modules
7700FR-C	3RU Multiframe which holds up to 15 single slot modules
7800FR	3RU Multiframe which holds up to 15 single slot modules
7701FR	1RU Multiframe which holds up to 3 single or dual slot modules
S7701FR	Standalone Enclosure

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