



7700ADA-AUD

Dual 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.

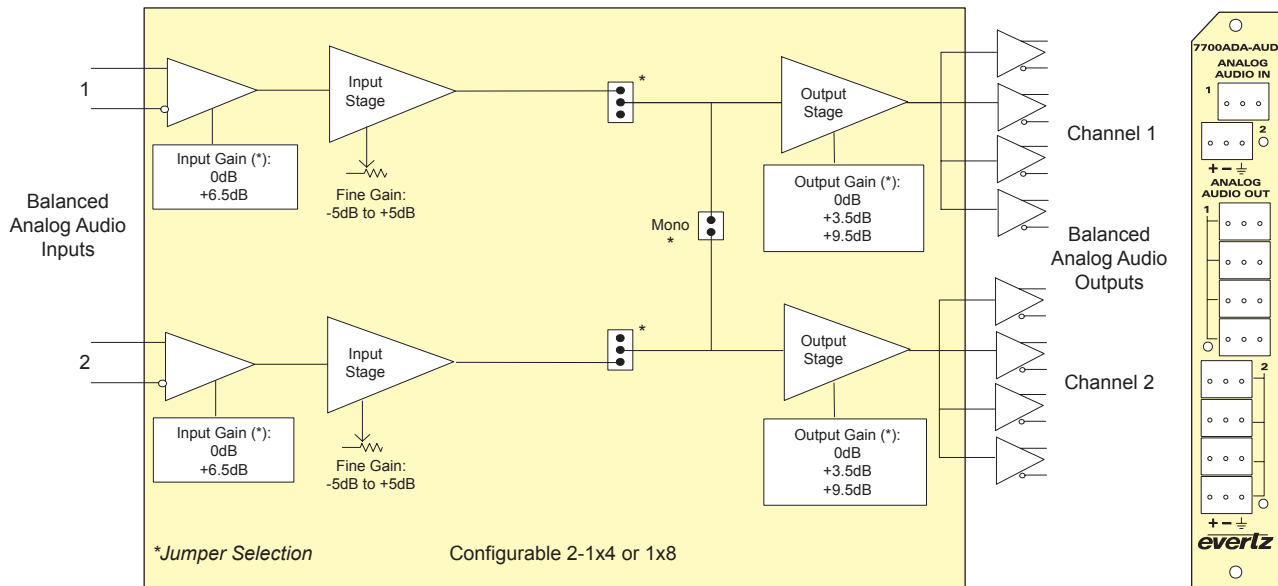
Features & Benefits

- 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



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: > ±22V
0dB input gain: > ±7V
+6.5dB input gain: > ±7V
Input impedance: 0dB input gain: 33kΩ
+6.5dB input gain: 15kΩ

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: 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 7700FR-C Multiframe
+1RU 1RU Rear Plate for use with 7701FR Multiframe
+SA Standalone Enclosure Rear Plate

Enclosures

7700FR-C
7701FR
S7701FR

3RU Multiframe which holds up to 15 single slot modules
1RU Multiframe which holds up to 3 single or dual slot modules
Standalone enclosure