

# Dual Analog Audio Distribution Amplifier

## Model 7700ADA-AUD

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.

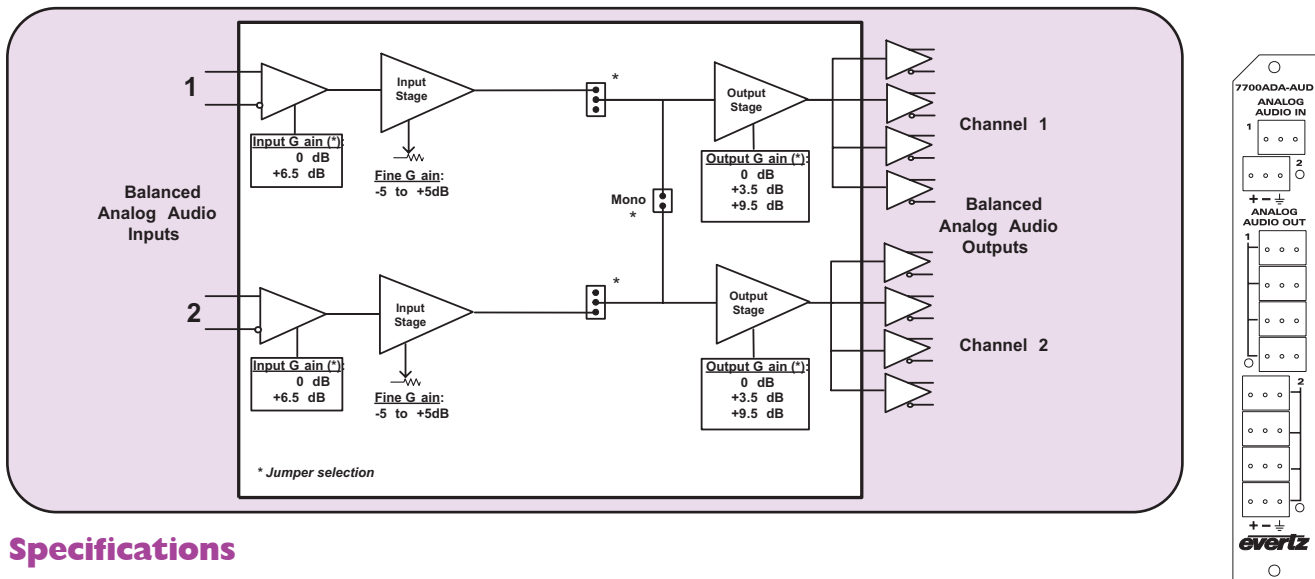
## Features

- Differential and single ended input (automatic single ended to differential conversion)
- Configurable for stereo or mono
- 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

## 7700ADA-AUD Block Diagram



## Specifications

### Analog Audio Input:

#### Standards:

#### Number of inputs:

#### Connectors:

#### Input step gain:

#### Fine gain control:

#### Maximum input level:

#### 0 dB input gain

#### +6.5 dB input gain

#### Noise floor:

#### Common mode rejection:

#### Common mode range:

#### 0 dB input gain

#### +6.5 dB input gain

#### Input impedance:

#### 0 dB input gain

#### +6.5 dB input gain

Any analog audio signal

2 (Balanced or Single ended)

3 pin removable terminal strips

0 dB or +6.5 dB (configurable with jumpers)

-5 to +5dB (card edge pot adjustable)

+33 dBu

+26.5 dBu

-87 dBu (0 dB input gain), -91 dBu (+6.5 dB input gain jumper setup)

> 115 dB @ 60 Hz, 90 dB @ 20 kHz (tested with +28 dBu CM input)

> ±22 V

> ±7 V

33 kΩ

15 kΩ

### Analog Audio Outputs:

#### Number of Outputs:

#### Stereo Mode:

#### Mono Mode:

#### Connectors:

#### Output step gain:

#### Maximum output level:

4 outputs each on left and right channels

8 Outputs

3 pin removable terminal strips

0, 3.5 or 9.5 dB (configurable with jumpers)

+28 dBu across hi-impedance load

+24 dBm into 600Ω load

66Ω

+/-0.02 dB 20 Hz to 20 kHz

< 1° @ 20 kHz

#### SNR:

#### 0dB input gain

115 dB

#### +6.5 dB input gain

#### THD+ Noise:

#### Intermodulation Distortion:

#### Stereo crosstalk:

#### Output Isolation:

#### Electrical:

#### Voltage:

#### Power:

#### EMI/RFI:

#### Physical:

#### Number of Slots:

#### Ordering Information:

#### 7700ADA-AUD

#### Ordering Options

Rear Plate must be specified at time of order

Eg: Model + 3RU

#### Rear Plate Suffix

#### +3RU

#### +1RU

#### +SA

#### Enclosures:

#### 7700FR-C

#### 7701FR

#### S7701FR

119 dB

0.001% 20 Hz to 20 kHz @ 28 dBu, unweighted

RMS, Hi-Z load

0.01% with 600Ω up to 24dBm

0.001% - SMPTE @ 18 dBu

>115 dB @ 1 kHz, >93 dB @ 20 kHz

> 110 dB @ 1 kHz, 100 dB @ 20 kHz

+12VDC

12 Watts

Complies with FCC Part 15 Class A,

EU EMC Directive

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Dual Analog Audio Distribution Amplifier

3RU Rear Plate for use with 7700FR-C Multiframe

1RU Rear Plate for use with 7701FR Multiframe

Standalone Enclosure Rear Plate

3RU Multiframe which holds 15 modules

1RU Multiframe which holds 3 modules

Standalone enclosure