

# 7700ADA-AUD-MM

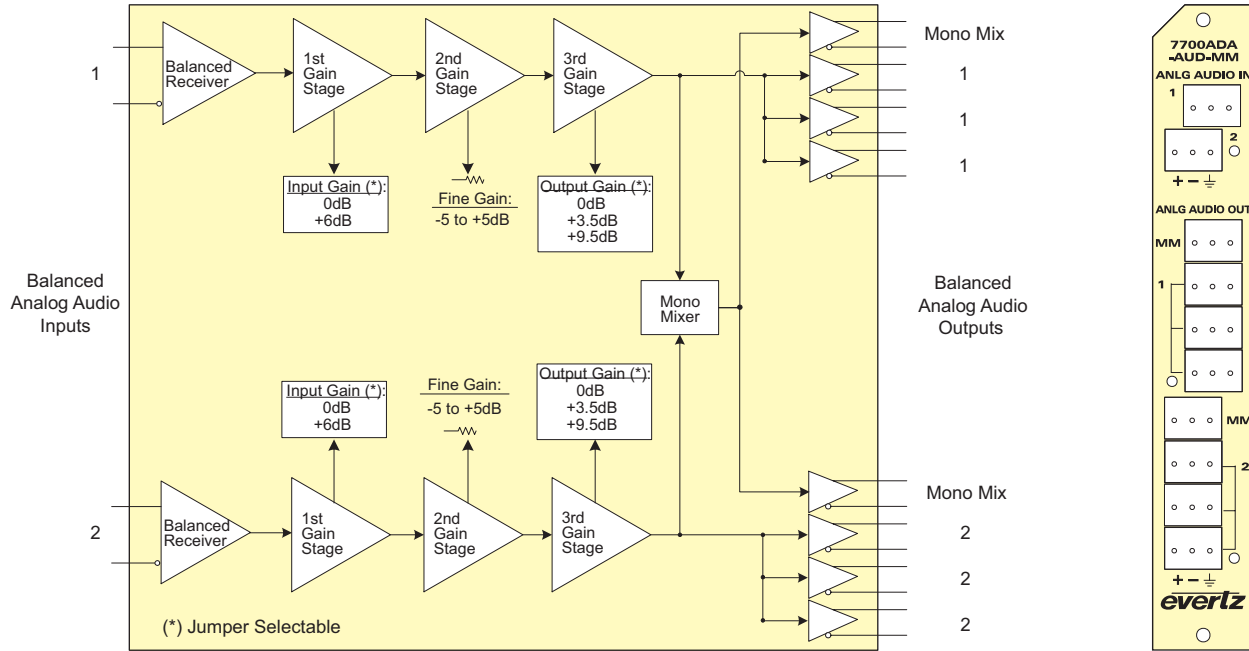
## Balanced Analog Audio Distribution Amplifier with Mono Mix

The 7700ADA-AUD-MM Balanced Analog Audio Distribution Amplifier with Mono Mix is a general purpose amplifier for distributing analog audio signals and providing a mono mix output of the stereo inputs. It 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 7700ADA-AUD-MM occupies one card slot and can be housed in a 1RU frame which will hold up to 3 modules, a 3RU frame which will hold up to 15 modules or a 350FR portable frame which will hold up to 7 modules.

### ►Features & Benefits

- Differential and single ended inputs (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 and very low THD+N
- Mono Mix of the stereo input
- Module Status/Local Fault



### ►Specifications

#### Analog Audio Inputs:

Standard: Any analog audio signal  
Number of Inputs: 2 (Balanced or Single ended)  
Connector: 3-pin removable terminal strips  
Maximum Input Level:  
0dB Input Gain: +33dBu  
+6dB Input Gain: +28dBu  
Noise Floor: -87dBu (0dB input gain), -91dBu (+6dB input gain jumper setup)

Common Mode Rejection:  
> 90dB @ 60Hz, 60dB @ 20kHz (tested with +28dBu CM input)

Common Mode Range:  
0dB Input Gain: > ±22V  
+6dB Input Gain: > ±7V  
Input Impedance:  
0dB Input Gain: 33kΩ  
+6dB Input Gain: 15kΩ

#### Analog Audio Outputs:

Number of Outputs: 2 (Balanced or Single ended)  
Distribution  
Amplified Outputs: 3 outputs each of left and right channels  
Mono Mix Outputs: 2 outputs total  
Connectors: 3-pin removable terminal strips  
Maximum 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  
+6dB Input Gain: 119dB  
THD+ Noise: 0.001% 20Hz to 20kHz @ 28dBu, unweighted RMS  
Intermodulation Distortion: 0.001% - SMPTE @ 18dBu  
Stereo Crosstalk: >115dB @ 1kHz, >93dB @ 20kHz

#### Available Gains:

Input Step Gain: 0dB or +6dB (configurable with jumpers)  
Fine Gain Control: -5 to +5dB (card edge pot adjustable)  
Output Step Gain: 0, 3.5 or 9.5dB (configurable with jumpers)

#### Electrical:

Voltage: +12V DC  
Power: 12W  
EMI/RFI: Complies with FCC regulations for class A devices  
Complies with EU EMC directive

#### Physical (number of slots):

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

### ►Ordering Information

**7700ADA-AUD-MM** Dual Channel Analog Audio Distribution Amplifier with Mono Mix

**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

#### Enclosures

**350FR**  
**7700FR-C**  
**7800FR**  
**7701FR**

3RU Portable Multiframe which holds up to 7 single slot modules  
3RU Multiframe which holds up to 15 single slot modules  
3RU Multiframe which holds up to 15 single slot modules  
1RU Multiframe which holds up to 3 single or dual slot modules