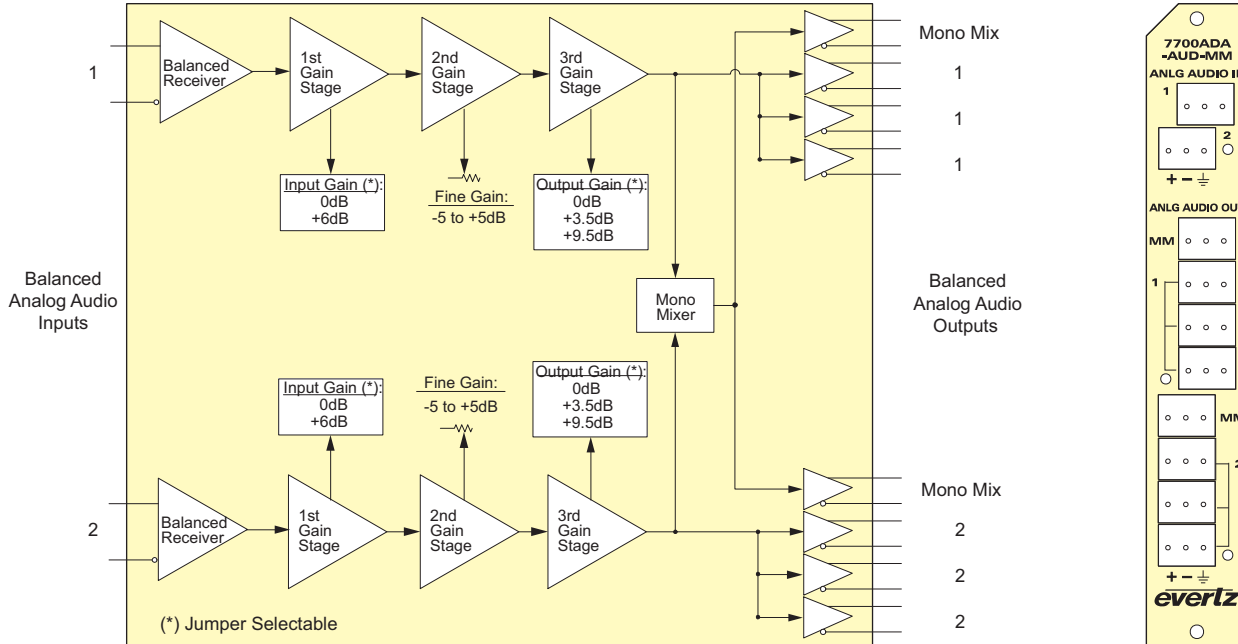The 7700ADA-AUD-MM Balanced Analog Audio Distribution Amplifier with Mono Mix is a general-purpose amplifier for distributing analog audio signals and providing a mono mix output of the stereo inputs. It can be operated with either differential or single ended inputs and offers a wide range of gain adjustment 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 four modules, a 3RU frame that will hold up to 15 modules or a 350FR portable frame that will hold up to seven 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:	
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

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
7801FR	1RU Multiframe which holds up to 4 single or 2 dual slot modules