

RACK-UP[®] SERIES Model RU-ADA8D Audio Distribution Amplifier

- Stereo Audio Distribution with 8 Outputs
- Mono Audio Distribution with 16 Outputs
- Front-Panel Input Level Trimmers
- Dual-LED VU Meter for Each Input Channel
- Front-Panel Output Level Trimmers
- Inputs and Outputs on Rear Panel Detachable
 Terminal Blocks
- Exceptional Audio Quality for the Most Demanding Applications

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RU-ADA8D	14-+-	³ + + ²	- + - ¹	*] [+ ⁴ -	± -3 +	+ ² - +	-1+]	A	LINE LEVEL UDIO INPUTS
MADE IN U.S.A.	a fart for								
24 VDC									

The RU-ADA8D is part of the group of RACK-UP products from Radio Design Labs. RACK-UPs feature the advanced circuitry for which RDL products are known, combined with accessible user-friendly controls and displays. The ultra compact design permits high-density installations, with *three* products mounted in a single rack unit. Optional brackets permit mounting a RACK-UP module above, below, or in front of any flat surface.

APPLICATION: The RU-ADA8D is an eight channel stereo audio distribution amplifier with input and output gain adjustments and input level metering. The module may be operated in mono to provide up to sixteen distributed mono signals. The inputs and outputs are connected on rear-panel detachable terminal blocks.

Each of the two line-level inputs accepts either a balanced or an unbalanced signal. Each input is equipped with a front panel INPUT GAIN trimmer. Input signal levels between -14 dBV unbalanced and +9 dBu balanced may be set to the proper operating level as indicated by a dual-LED VU meter. This assures ample headroom at all normal operating levels. The maximum input level is +25 dBu.

A rear-panel switch selects between stereo and mono operation. In the mono position, input A (left) is used to drive all 16 output channels. When the module is used in a monaural system, only input A must be wired.

Audio outputs are isolated from each other and may be wired balanced or unbalanced. Each of the outputs is provided with a front-panel screwdriver adjusted OUTPUT LEVEL control. Relative to a balanced +4 dBu output level, this gain potentiometer allows an adjustment range from -9 dB to +6 dB. Relative to an unbalanced -10 dBV output, each output potentiometer allows an adjustment from -3 dB to +12 dB.

The RU-ADA8D offers exceptional headroom, very low distortion, excellent crosstalk isolation, wide flat frequency response and extremely low noise with very high common-mode signal rejection. It provides exceptional audio performance for the most critical applications in a professional audio environment.

The RU-ADA8D operates from 24 Vdc connected through a rear-panel detachable terminal block.



SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™



RACK-UP[®] SERIES Installation/Operation EN55103-1 E1-E5; EN55103-2 E1-E4 Model RU-ADA8D Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice **Audio Distribution Amplifier** PRESET THE LEVEL TRIMMERS FOR PRESET THE LEVEL TRIMMERS FOR **BALANCED WIRING** THE EXPECTED INPUT SIGNAL LEVEL THE DESIRED OUTPUT SIGNAL LEVEL ᆂ Θ Θ \odot Θ 0 0 0 3 0 +4 dBu BALANCED -10 dBV UNBALANCED +4 dBu BALANCED -10 dBV UNBALANCED RU-ADA8D AUDIO DISTRIBUTION AMPLIFIER RDI +4 dBu Balanced -10 dBV Unbalanced • \bigcirc \bigcirc \bigcirc Ð \bigcirc Ð \odot AL LEVELS 2 3 4 2 3 4 1 Α INPLIT GAIN в UNBALANCED WIRING \bigcirc ᆂ Θ Θ \odot **(D)** \odot Ð \odot 1**D** 0 0 \odot C 5 6 7 8 5 6 8 WITH NORMAL INPUT SIGNAL CONNECTED, WITH PROPER INPUT GAIN ADJUSTED INPL TRIM OUTPUT GAINS FOR CORRECT INPUT TRIM INPUT GAINS FOR CORRECT LEVEL LEVEL AT THE EQUIPMENT CONNECTED ON DUAL-LED METERS (GREEN LED BRIGHT AND RED FLASHING OCCASIONALLY) TO EACH OF THE OUTPUTS CHANNEL B LINE LEVEL OUTPUTS CHANNEL A LINE LEVEL OUTPUTS \frown RDL + 4 ÷ - 3+ $^{4} - \pm -^{3} +$ $+^{2} - \pm -^{1} +$ $+^{2} - \pm -^{1} +$ LINE LEVEL LINE LEVEL + **RU-ADA8D** AUDIO INPUTS AUDIO INPUTS 000000 000000 000000 000000 MADE IN U.S.A. -B STEREO ÔR ÓR MOZO(A) VDC PWR MONO MONO -7+ _ 5 _ 1 -ᆂ 000000 00000 000000 000000 000000 00 000000 CE CE MODE MODE CONNECT CONNECT CHANNEL B CONNECT CHANNEL A CONNECT STEREO CONNECT A MONO 24 VDC POWER OUTPUTS TO THE RIGHT OUTPUTS TO THE LEFT SOURCE TO INPUT A (LEFT) OR SOURCE TO INPUT A TO TERMINAL CHANNEL INPUTS OF CHANNEL INPUTS OF AND INPUT B (RIGHT) SET MODE TO MONO SET MODE TO STERÉO BLOCK STEREO EQUIPMENT STEREO EQUIPMENT

NOTE: IF THE MODE SWITCH IS SET TO MONO, THE MONO SOURCE WILL FEED ALL OUTPUTS. CONNECT EACH OUTPUT (CHANNEL A OR B) TO THE INPUT OF MONO EQUIPMENT

TYPICAL PERFORMANCE

Inputs (2):	Stereo (A/left and B/right) on detachable terminal block
Input Impedance:	20 k Ω balanced or 10 k Ω unbalanced
Input Level:	+4 dBu balanced (nominal), +25 dBu maximum;
	-10 dBV unbalanced
Input Gain Adjustments (2):	-5 dB to +15 dB (rel. +4 dBu balanced); -3 dB to +17 dB
	(rel10 dBV unbalanced)
Input Metering (2):	Dual-LED VU Meter for Input A and Input B
Mono mode:	Rear-panel switch-selectable (input A feeds all 16 outputs)
Outputs (16):	Stereo, A (8), B (8) on detachable terminal blocks
Output Impedance:	150 Ω balanced; 75 Ω unbalanced
Output Level:	+4 dBu balanced (nominal), +24 dBu maximum;
	-10 dBV unbalanced
Output Level Adjustments (16):	-9 dB to +6 dB (rel. +4 dBu, balanced);
	-3 dB to + 12 dB (rel10 dBV, unbalanced)

Frequency Response THD+N: Headroom: Noise: Crosstalk: CMRR: Power Requirement:

Ambient Operating Environment: Case dimensions: 10 Hz to 165 kHz (+/- 0.25 dB); 10 Hz to 35 kHz (+/- 0.01 dB) < 0.0025% (20 Hz to 20 kHz) > 20 dB (above +4 dBu output, 20 Hz to 20 kHz) < -85 dB (20 Hz to 1 kHz); <-70 dB (1 kHz to 20 kHz) > 90 dB (100 Hz) GROUND-REFERENCED, 24 Vdc @ 140 mA (idle, nominal), 170 mA (max.) 0° C to 50° C 5.75" (14.6 cm) W x 1.65" (4.18 cm) H x 3.54" (9.0 cm) D; 3.9" (9.9 cm) D with connectors