RDL® Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

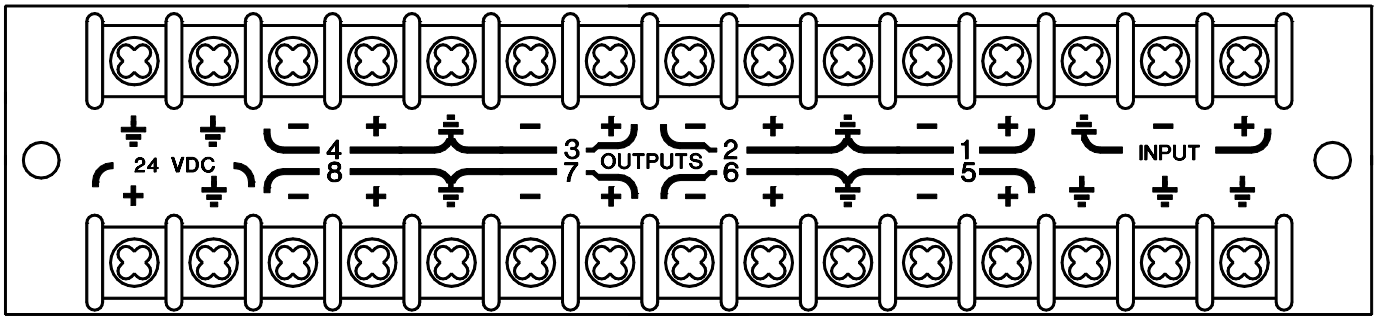
RACK-UP®

RACK-UP® SERIES

Model RU-DA8W
Wide-Band Audio Distribution Amplifier

Installation/Operation

CE **EN55103-1 E1-E5; EN55103-2 E1-E4**
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



AUDIO INPUT: Connect balanced audio to the **+**, **-**, and **GROUND** terminals. Connect unbalanced audio to the **+** and ***GROUND*** terminals; connect the **-** terminal to the **GROUND** terminal.

AUDIO OUTPUTS: Connect balanced audio to the desired output(s) (1 through 8). For balanced wiring, connect the conductors to the **+** and **-** terminals. The ground is typically connected to the equipment that the RU-DA8W is feeding. If it is desired to connect the ground, use the nearest **GROUND** terminal. For unbalanced wiring, connect the positive lead to the output **+** terminal; connect the shield to the nearest **GROUND** terminal. Do not connect the output **-** terminal to the shield or **GROUND** terminals.

POWER CONNECTION: Connect the positive side of a single-ended 24 Vdc power source to the ***+24 VDC*** terminal. Connect the ground return from that supply to the adjacent **GROUND** terminal. Power supply and circuit grounds are common. Available RDL supply is purchased separately.

TYPICAL PERFORMANCE

Input:	Line level	
Input Impedance:	10 kΩ balanced or unbalanced	
Gain:	135 Ω unit:	-5 to +15 dB
	600 Ω unit:	-6 to +16 dB
Frequency Response:	135 Ω unit:	35 Hz to 92 kHz ±0.25 dB into 135 Ω load
	600 Ω unit:	10 Hz to 92 kHz ±0.25 dB into 600 Ω load
Total Harmonic Distortion:	<0.010%	
Headroom:	135 Ω unit:	>10 dB referenced to 0 dBu
	600 Ω unit:	>16 dB referenced to +4 dBu
Noise:	<-85 dB below +4 dBu output	
CMRR:	>50 dB @ 100 Hz	
Indicator:	LED for Audio Present (audio input > -20 dBu)	
Power Requirement:	24 to 33 Vdc @ 300 mA, Ground-referenced	

Radio Design Labs Technical Support Centers
U.S.A. (800) 933-1780, (928) 778-3554; Fax: (928) 778-3506
Europe [NH Amsterdam] (++31) 20-6238 983; Fax: (++31) 20-6225-287