



**RDL**<sup>®</sup>  
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™



## RACK-UP<sup>®</sup> SERIES

Model RU-DA8W

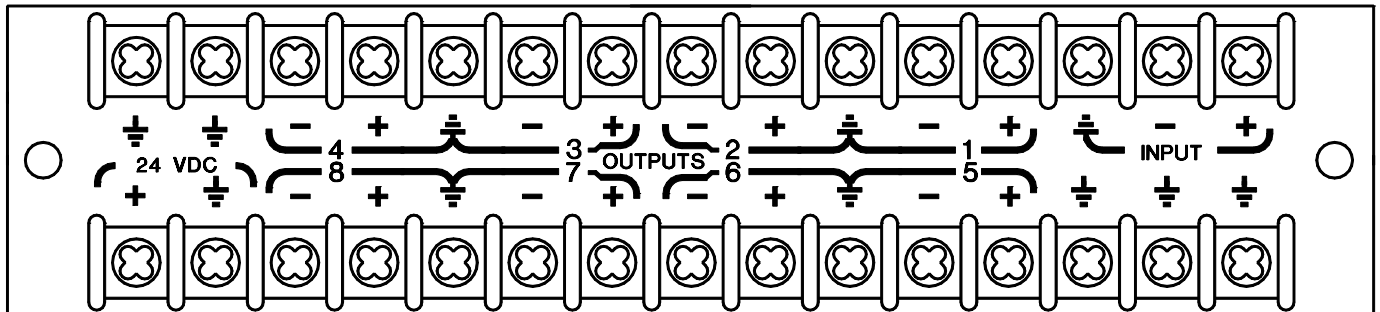
Wide-Band Audio Distribution  
Amplifier

## Installation/Operation



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 k $\Omega$ balanced or unbalanced
Gain:	135 $\Omega$ unit: -5 to +15 dB
	600 $\Omega$ unit: -6 to +16 dB
Frequency Response:	135 $\Omega$ unit: 35 Hz to 92 kHz $\pm$ 0.25 dB into 135 $\Omega$ load
	600 $\Omega$ unit: 10 Hz to 92 kHz $\pm$ 0.25 dB into 600 $\Omega$ load
Total Harmonic Distortion:	<0.010%
Headroom:	135 $\Omega$ unit: >10 dB referenced to 0 dBu
	600 $\Omega$ 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