

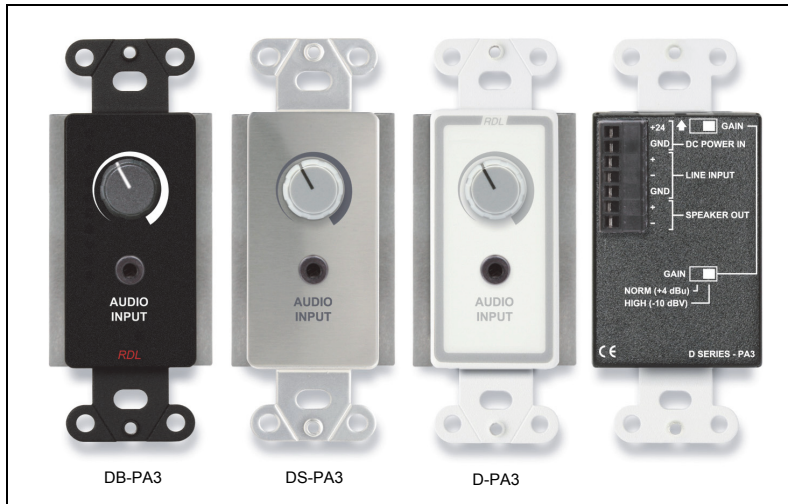


**RDL**<sup>®</sup>  
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

## ACCESSORIES

### Models D-PA3, DS-PA3, DB-PA3 3.5 Watt Audio Amplifier



- Wall-Mounted Amplifier with 2 Inputs
- Balanced Input on the Rear Panel
- Mini-Jack Input on the Front Panel
- Automatic Switching Between Inputs
- Source Selection Using Solid-State Switching
- Front-Panel Gain Adjustment
- 3.5 Watt RMS Audio Amplifier into 8 Ohms
- 6.5 Watt RMS Audio Amplifier into 4 Ohms
- Output Drives 4 or 8 Ohm Speaker
- Speaker Output on the Rear Panel
- High-Efficiency Class D Operation
- Speaker Output Connection on Detachable Terminal Block
- Ultra-Compact All Metal Construction
- Thermal and Short-Circuit Protection

The D SERIES-PA3 is part of the group of versatile accessory products from Radio Design Labs. These modules combine durable construction with high quality components and attractive, professional graphics. The D SERIES-PA3 mounts in separately available electrical wall boxes and cover plates.

**APPLICATION:** The D SERIES-PA3 is a high efficiency 3.5 W power amplifier with two line inputs and an amplified output to drive a 4 or 8 ohm speaker. The -PA3 features a balanced line level input that may be connected unbalanced. The gain range will accommodate standard unbalanced levels as well as professional balanced levels.

The amplifier features a stereo Mini-Jack input on the front panel. The input is designed to receive standard -10 dBV consumer level signals from sources such as a computer or personal media player. The left and right audio signals received on the Mini-Jack are summed to mono and amplified. When a source is connected, the rear-panel input is switched off. The amplified output level is controlled by a front-panel volume control.

A recessed slide switch on the side of the chassis is set during installation. This switch determines the sensitivity of the balanced rear-panel input.

Amplification is provided by a high-efficiency Class D power stage with audio filtering tailored for crisp, pleasant audio clarity. The high-efficiency Class D output stage produces negligible heat for all levels of expected voice or music modulation.

The D SERIES-PA3 is designed to be mounted in a wall box. The front panel does not include any illuminated indicators, making the -PA3 ideally suited to installation in dark rooms or areas. Wiring is connected through a rear-panel detachable terminal block. Module operation is from a 24 Vdc ground-referenced power supply.

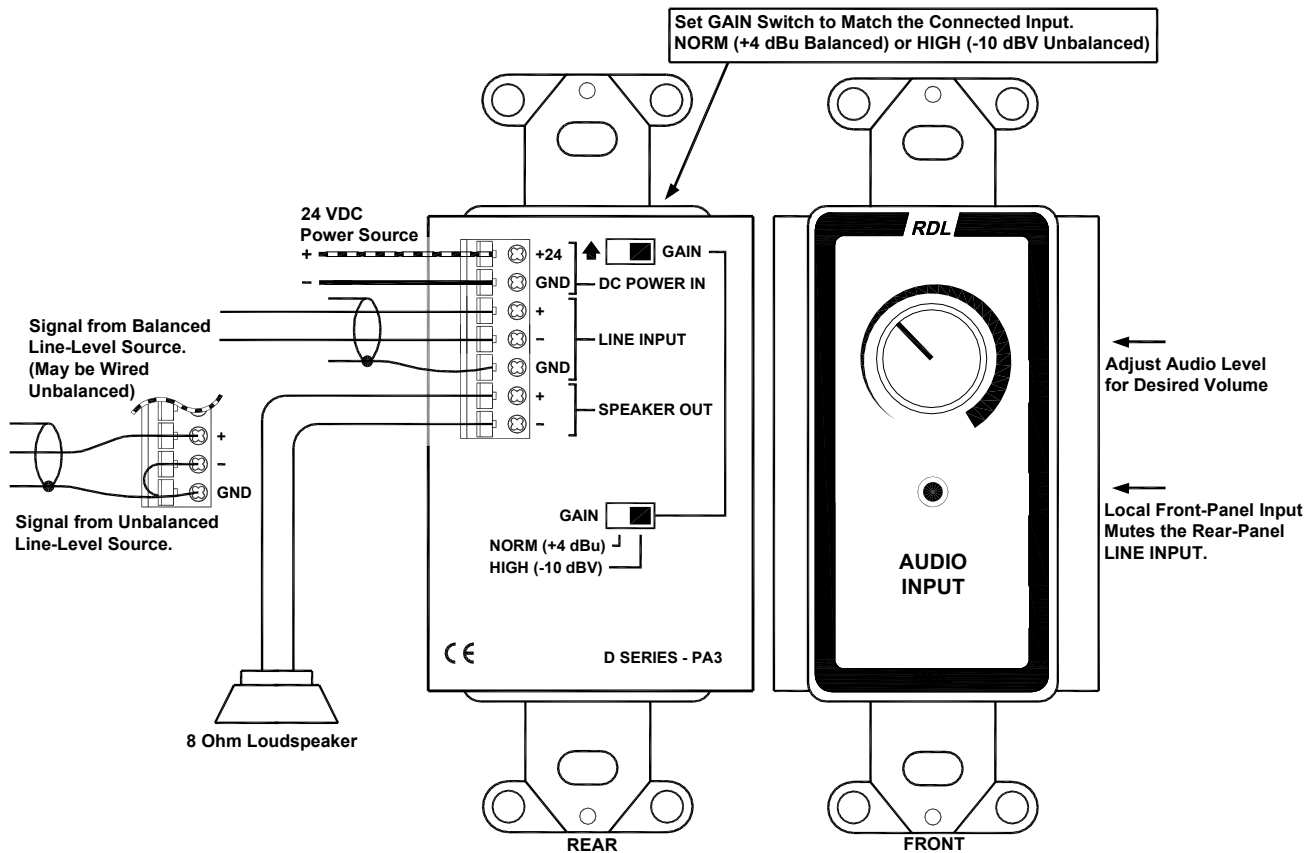
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## Installation/Operation



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.



## TYPICAL PERFORMANCE

Inputs (2):	20 kΩ balanced or unbalanced bridging
Input Level:	+4 dBu nominal (Balanced, Low input sensitivity); -15 dBV nominal (Unbalanced, High input sensitivity)
Minimum Input Level:	-18 dBu (Balanced, Max. gain); -19 dBV (Unbalanced Mini-Jack, Max. gain)
Maximum Input Level:	+22 dBu (Low input sensitivity); +4 dBu (High input sensitivity)
Gain Adjustment:	Single-turn audio taper (Front-panel)
Output Power:	3.5 W RMS (Max., into 8 ohms); 6.5 W RMS (Max., into 4 ohms)
Frequency Response:	20 Hz to 20 kHz (± 1 dB)
THD+N:	< 0.1% (@ 1 kHz, 1 W)
Noise:	< -80 dB (below 1 W RMS, balanced input); < -70 dB (below 1 W RMS, Mini-Jack input)
CMRR:	> 50 dB (50 Hz to 120 Hz)
Power Requirement:	24 Vdc @ 30 mA (Idle); 55 mA (1/8 power; normal voice or music); 225 mA (3.5 W into 8 ohms)
Ambient Operating Environment:	0° C to 40° C Maximum; 20° C Recommended
Dimensions:	Height: 4.13 in. 10.49 cm; Width: 1.7 in. 4.32 cm; Depth: 2.05 in. 5.21 cm

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