



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

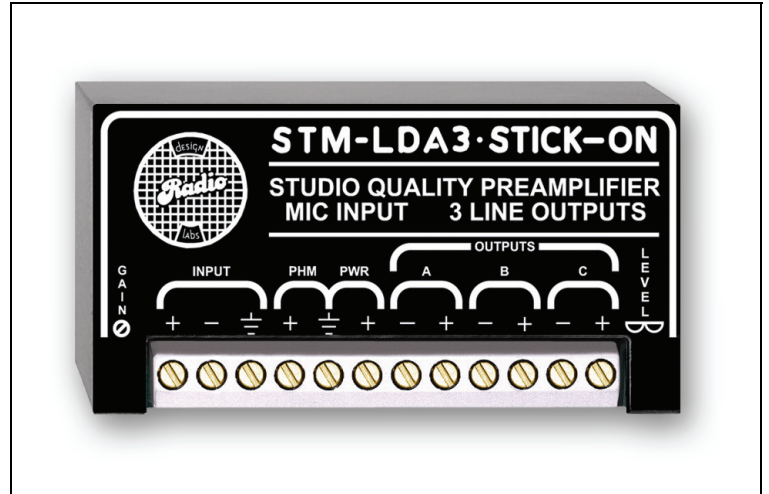
SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

## STICK-ON<sup>®</sup> SERIES

### Model STM-LDA3

### Studio Quality Mic Preamp with Distributed Outputs

- Studio-Quality Mic Preamplification
- Three Distributed Line-Level Outputs
- Low-Noise and Low-Distortion
- Selectable Filtered Phantom Voltage
- Adjustable Gain up to 60 dB
- RDL's Exclusive Dual-LED VU Metering
- Versatility of STICK-ON Compactness



The STM-LDA3 is part of the group of versatile STICK-ON products from Radio Design Labs. STICK-ONS feature the advanced circuitry for which RDL products are known, combined with unequalled versatility in mounting possibilities. The durable adhesives provided with the STM-LDA3 permit permanent or removable mounting. Numerous available mounting accessories, brackets and rack-mount chassis are optionally available to facilitate any system design. STICK-ONS are designed, built and rated for continuous duty in professional A/V systems.

**APPLICATION:** The STM-LDA3 is designed for use in quality commercial sound, broadcast and recording applications. The 1.2 k $\Omega$  balanced input accepts a wide variety of microphone input levels without loading professional low-impedance microphones. A multi-turn gain trimmer allows precise output level adjustment. The output signal is available on three separate balanced line-level outputs. Each output may be connected balanced or unbalanced. The three outputs are sufficiently isolated that a short-circuit on one output does not materially reduce the amplitude of the remaining outputs.

RDL's exclusive low-noise discrete preamplifier circuitry produces studio-quality low-noise performance in an economical preamplifier. Dynamic or condenser microphones may be used with the STM-LDA3. Standard 24V phantom is supplied to the input when the supply voltage is connected to the **PHM** terminal. Optimum operating level is set using RDL's unique Dual-LED VU meter, located adjacent to the terminal block. A green LED illuminates at 15 dB below a +4 dBu output. The intensity of the green LED progresses from minimum to full intensity at +4 dBu. The adjacent red LED illuminates when the operating level exceeds +4. This makes the STM-LDA3 easy to set up without any external test equipment and operating levels may be monitored at the module.

Wherever a mic to line level distribution amplifier or studio quality microphone preamplifier is needed, the STM-LDA3 is the ideal choice. Use the STM-LDA3 individually, or combine it with other RDL products as part of a complete audio/video system.

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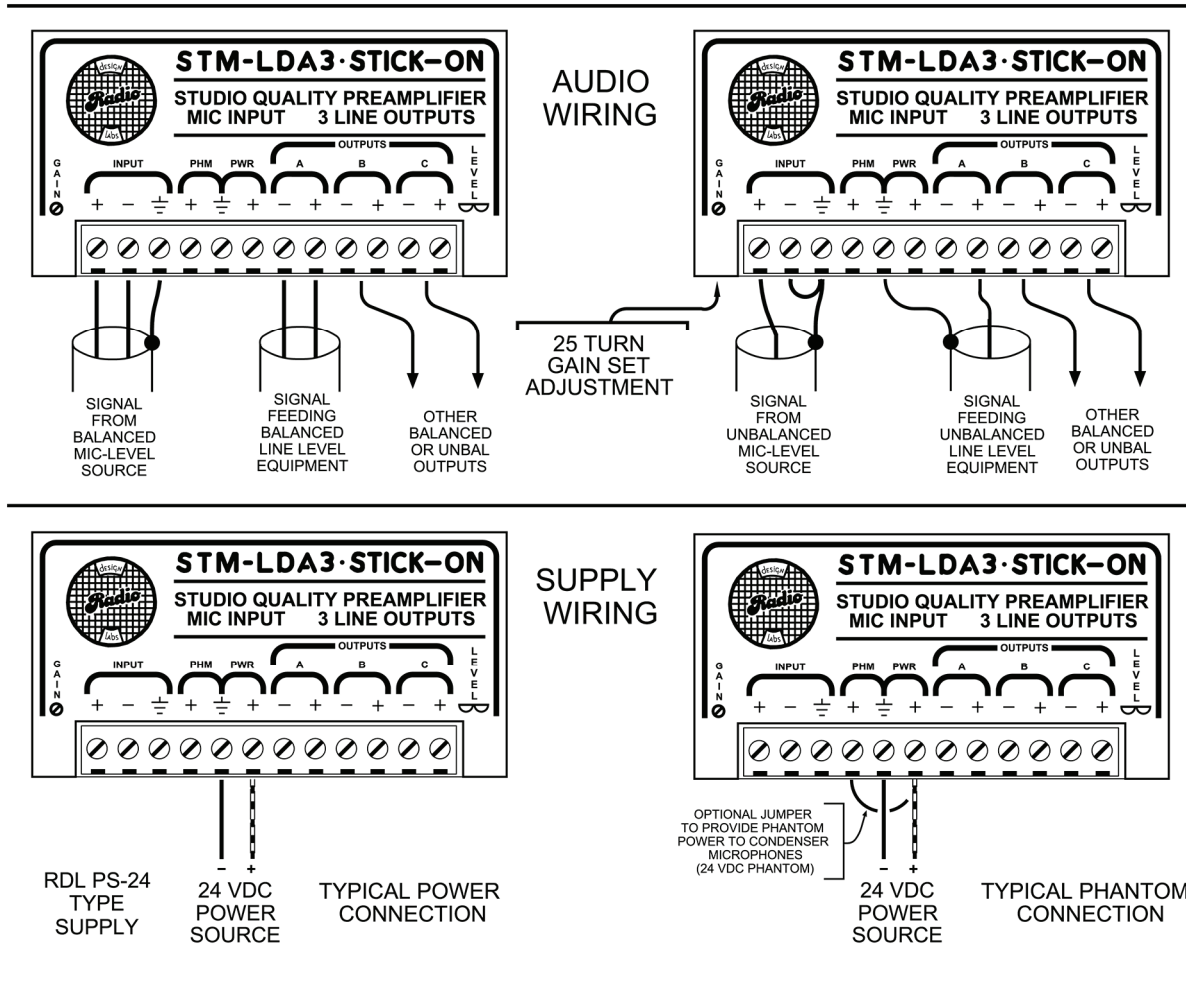
## Model STM-LDA3

### Studio Quality Mic Preamp with Distributed Outputs

## 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

Input:	1.2 k $\Omega$ balanced
Outputs (3):	+4 dBu, 150 $\Omega$ balanced
Gain:	40 to 60 dB (25 turn adjustable)
Frequency Response:	30 Hz to 20 kHz ( $\pm$ 0.2 dB)
THD + N:	< 0.1%
IMD:	< 0.1%
Noise:	< -70 dB (below +4 dBu @ 60 dB gain – wideband) < -80 dB (below +4 dBu @ 50 dB gain – wideband)
Equivalent Input Noise:	< -130 dB (gain + residual noise below +4 dBu)
Headroom:	> 20 dB (above +4 dBu)
CMRR:	> 60 dB (100 Hz to 5 kHz)
Ambient Operating Environment:	0° C to 55° C
Power Requirement:	GROUND-REFERENCED, 24 Vdc @ 40 mA

Radio Design Labs Technical Support Centers

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