RDL® Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® 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 kΩ 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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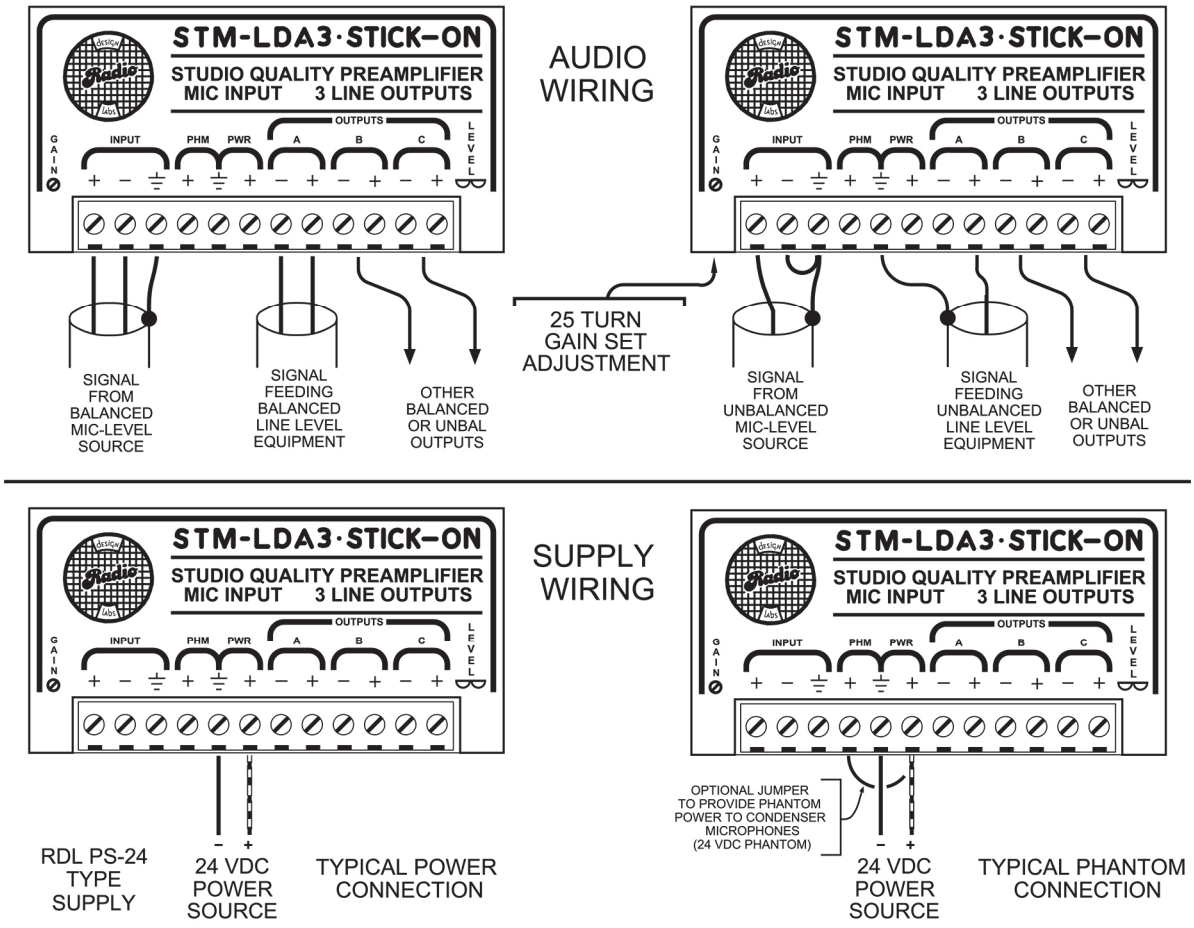
Installation/Operation

CE **Declaration of Conformity available from rdlnet.com.**
Sole EMC specifications provided on product package.
Specifications are subject to change without notice.



TYPICAL PERFORMANCE

Input:	1.2 kΩ balanced
Outputs (3):	+4 dBu, 150 Ω balanced
Gain:	40 to 60 dB (25 turn adjustable)
Frequency Response:	30 Hz to 20 kHz (± 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

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