



RDL[®]
Radio Design Labs

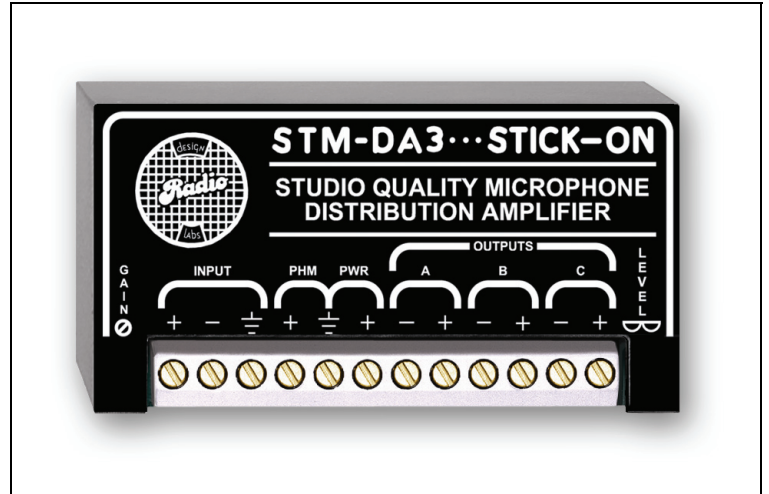
SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON[®] SERIES

Model STM-DA3

Mic Level Distribution Amplifier

- Feed 1 Microphone to 3 Mic Inputs
- Electrical and Audio Isolation
- Studio Quality Low-Noise, Low-Distortion Performance
- Excellent Phase Response
- Versatility of STICK-ON Compactness



The STM-DA3 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-DA3 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-DA3 is designed for use in quality commercial sound, broadcast and recording applications. The 1200 Ω balanced input accepts a wide variety of microphone input levels without loading professional low-impedance microphones. A multi-turn trimpot is user adjustable for either gain or loss in order to match the facility standard microphone levels. Three balanced outputs provide nearly total isolation between the output lines. Unlike mic-splitting transformer systems, the STM-DA3 also provides audio isolation. In fact, the audio isolation is so good that a +4 dBu signal fed into one output is still below the noise floor on the adjacent output. Loading of one output, including a direct short, has no effect on the other outputs.

The STM-DA3 is built on the electrical architecture of RDL's low-noise studio-quality mic preamplifiers. Dynamic or condenser microphones may be used with the STM-DA3. 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 optimum level. The intensity of the green LED progresses from minimum to full intensity over a 15 dB range. The adjacent red LED illuminates when the operating level exceeds the optimum level. This makes the STM-DA3 easy to set up without any external test equipment, and operating levels may be monitored at the module.

Wherever a microphone distribution amplifier is needed, the STM-DA3 is the ideal choice. Use the STM-DA3 individually, or combined with other RDL products as part of a complete audio/video system.

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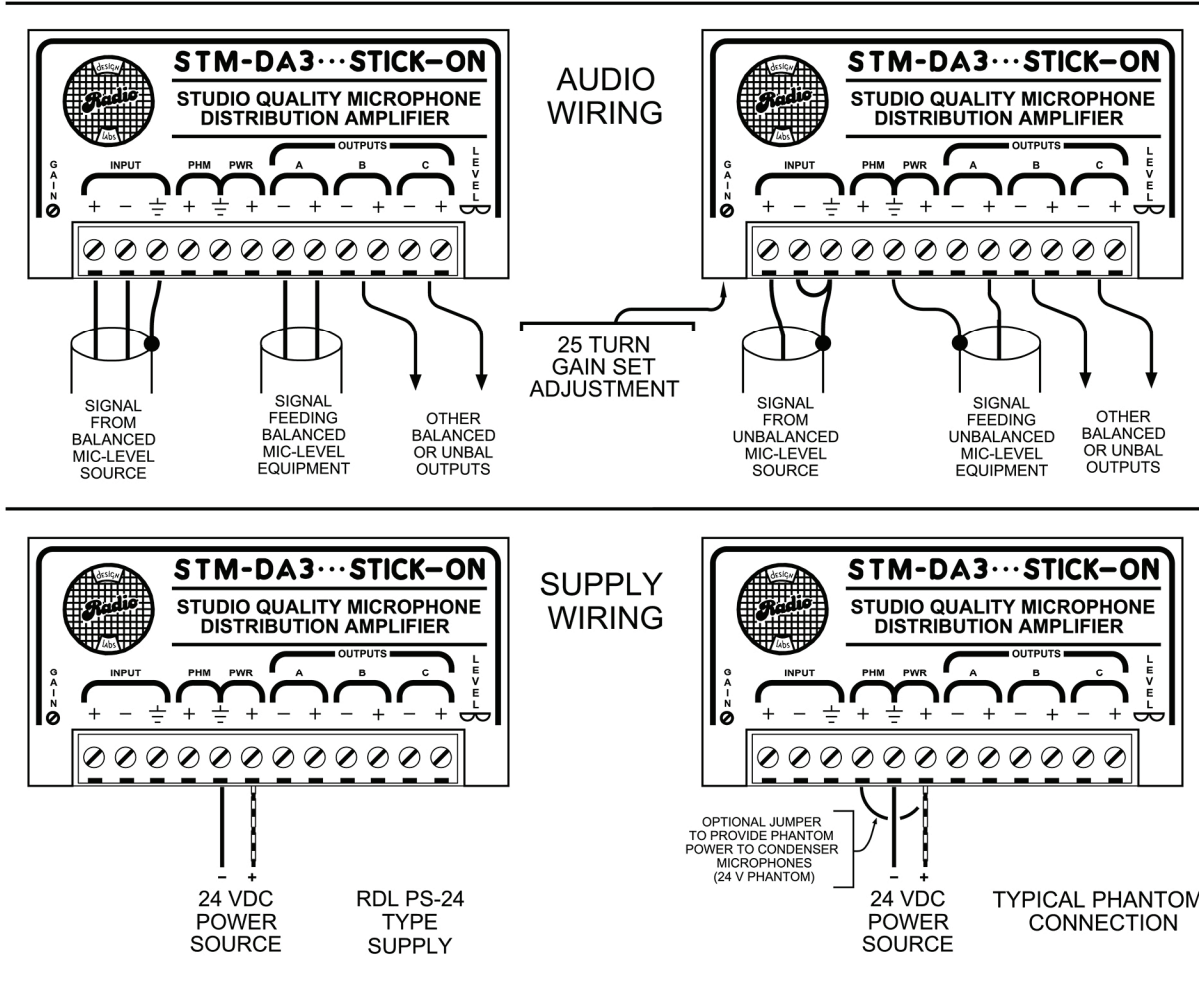
Model STM-DA3

Mic Level 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.



TYPICAL PERFORMANCE

Input:	1.2 k Ω balanced
Outputs (3):	-45 dBu, 150 Ω balanced
Gain Range:	17 dB (Adjustable, 25-turn trimmer)
Control fully CCW:	Gain = -5 dB
Control fully CW:	Gain = 12 dB
Frequency Response:	30 Hz to 20 kHz (\pm 0.2 dB)
THD:	< 0.1%
IMD:	< 0.1%
Noise:	< 80 dB (below -50 dBu output, -50 dBu input)
Headroom:	> 20 dB (-50 dBu output, -45 dBu input)
CMRR:	> 60 dB (100 Hz to 5 kHz)
Output Isolation:	> 135 dB (balanced audio) > 150 dB (common mode)
Ambient Operating Environment:	0° C to 55° C
Power Requirement:	GROUND-REFERENCED, 24 Vdc @ 40 mA