



RDL® Radio Design Labs®

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

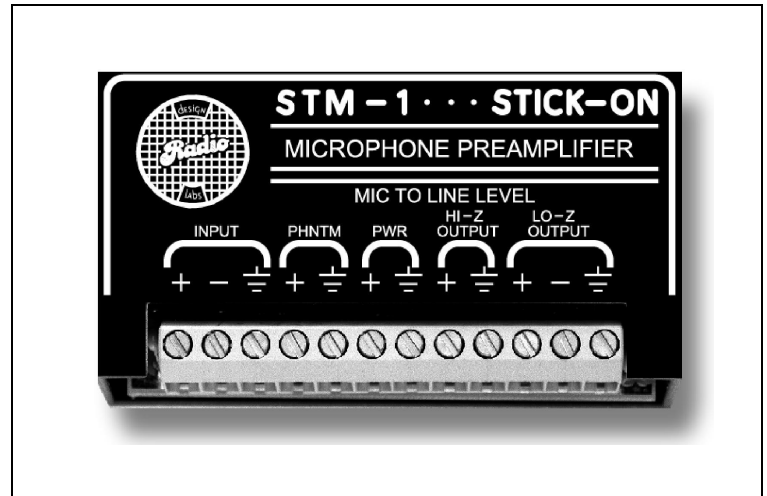
STICK-ON® SERIES

Model STM-1

Mic to Line Level Preamp

ANYWHERE YOU NEED...

- Stick-On Convenience
- High or Low Impedance Mic Inputs
- To Convert Line Inputs to Mic Inputs
- Balanced or unbalanced Outputs
- Separate Phantom Supply Input
- RF Filtered Inputs and Outputs
- Excellent Performance



You Need The STM-1!

The STM-1 is part of the group of STICK-ON products from Radio Design Labs. The STM-1 is a quality microphone preamplifier designed for use in commercial sound, broadcast, and recording applications. Its compact size makes it ideally suited to locations where a larger or heavier preamp cannot be used. Its performance makes it the best choice, even when larger preamps could be used! The single-ended supply input makes STM-1 the ideal choice for both permanent and mobile equipment installations. Some features of the STM-1 are:

- Balanced microphone input accepts impedances from 150 to 600 Ω
- Input circuitry permits connection of unbalanced microphones, and 4 or 8 Ω speakers in intercom or monitoring applications
- Fixed 50 dB gain and ample headroom allow operation with any mic
- Phantom supply input terminals allow connection of phantom power when STM-1 is used with condenser microphones
- Supply input is single-ended and operates from 24 Vdc to 33 Vdc (9 Vdc at reduced headroom)
- Two separate outputs provide for balanced 600 Ω and unbalanced 10 k Ω
- No lugs required for reliable connections
- Convenience of STICK-ON package yields quick, efficient installation
- Use STM-1 in conjunction with other RDL STICK-ONS to make complete audio systems

Anywhere you need a fixed gain mic to line preamplifier, STM-1 is the reliable and cost-effective solution! Use the STM-1 with other RDL RACK-UP®, STICK-ON®, TX™, or FLAT-PAK™ series products as part of a complete audio/video system.



STICK-ON® SERIES

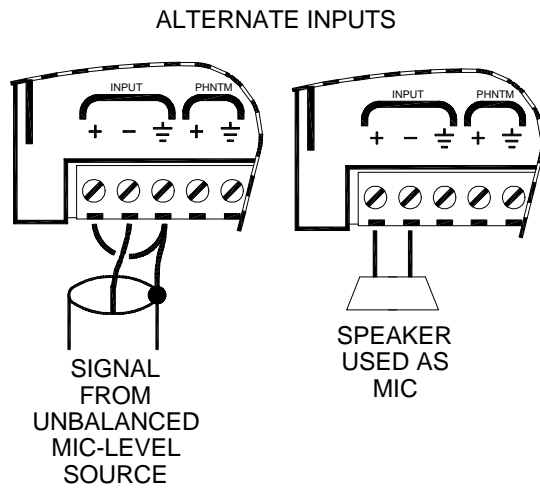
Model STM-1

Mic to Line Level Preamplifier

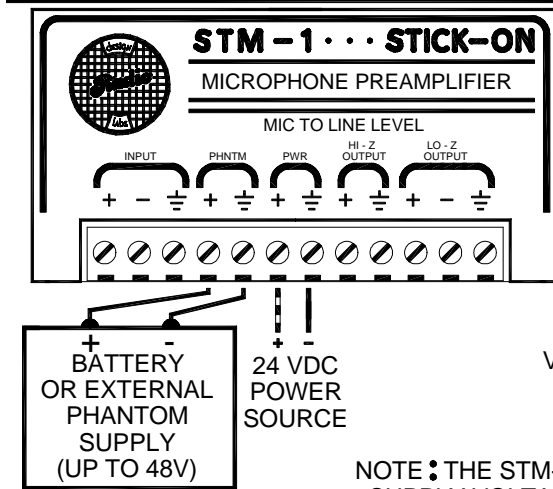
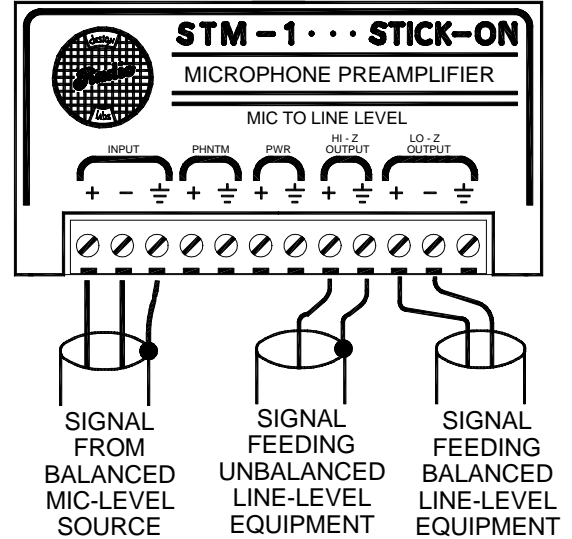
Installation/Operation



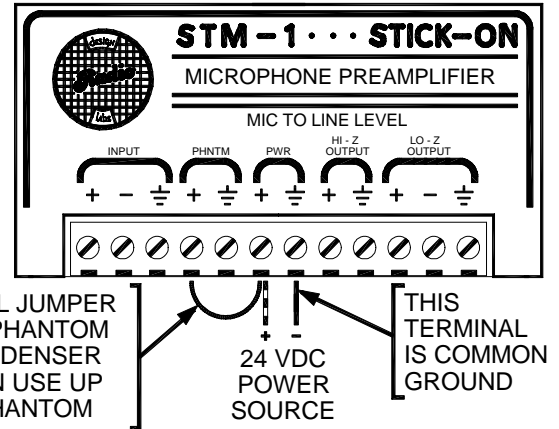
EN55103-1 E1-E5; EN55103-2 E1-E4
 Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



AUDIO WIRING



POWER WIRING



NOTE: THE STM-1 WILL OPERATE (WITH REDUCED HEADROOM) ON SUPPLY VOLTAGES FROM 9 VDC TO 23 VDC.

TYPICAL PERFORMANCE

Input Impedance:	150 to 600 Ω balanced; 5 kΩ unbalanced
Output Impedance:	150 Ω balanced to drive balanced or unbalanced lines of 150 Ω or higher impedance
Frequency Response:	50 Hz to 30 kHz (+/- 1.0 dB)
Gain:	50 dB nominal
THD+N:	< 0.050%
CMRR:	> 60 dB (50 Hz to 30 kHz)
Headroom:	> 20 dB (24 Vdc supply); 14 dB (12 Vdc supply)
Noise:	< -70 dB (below +4 dBu 150 Ω source) < -75 dB (below +4 dBu 600 Ω source)
Power Requirement:	24 to 33 Vdc @ 25 mA, Ground referenced (9 Vdc operation with reduced headroom)

Radio Design Labs Technical Support Centers

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