



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

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

## STICK-ON<sup>®</sup> SERIES

### Model STM-1

### Mic to Line Level Preamplifier

#### 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 versatile STICK-ON products from Radio Design Labs, featuring the advanced circuitry for which RDL products are known. The durable adhesives provided with the STM-1 permit permanent or detachable mounting. Numerous mounting accessories, brackets and rack-mount chassis are optionally available to facilitate any system design.

**APPLICATION:** 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 dynamic or condenser microphones
- Input circuitry permits connection of unbalanced microphones, and 4 or 8  $\Omega$  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
- Ground-referenced supply input operates from 24 Vdc to 33 Vdc (12 Vdc with reduced headroom)
- Separate balanced and unbalanced line-level audio outputs
- 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<sup>®</sup>, STICK-ON, TX<sup>™</sup>, or FLAT-PAK<sup>™</sup> series products as part of a complete audio/video system.

# STICK-ON<sup>®</sup> SERIES

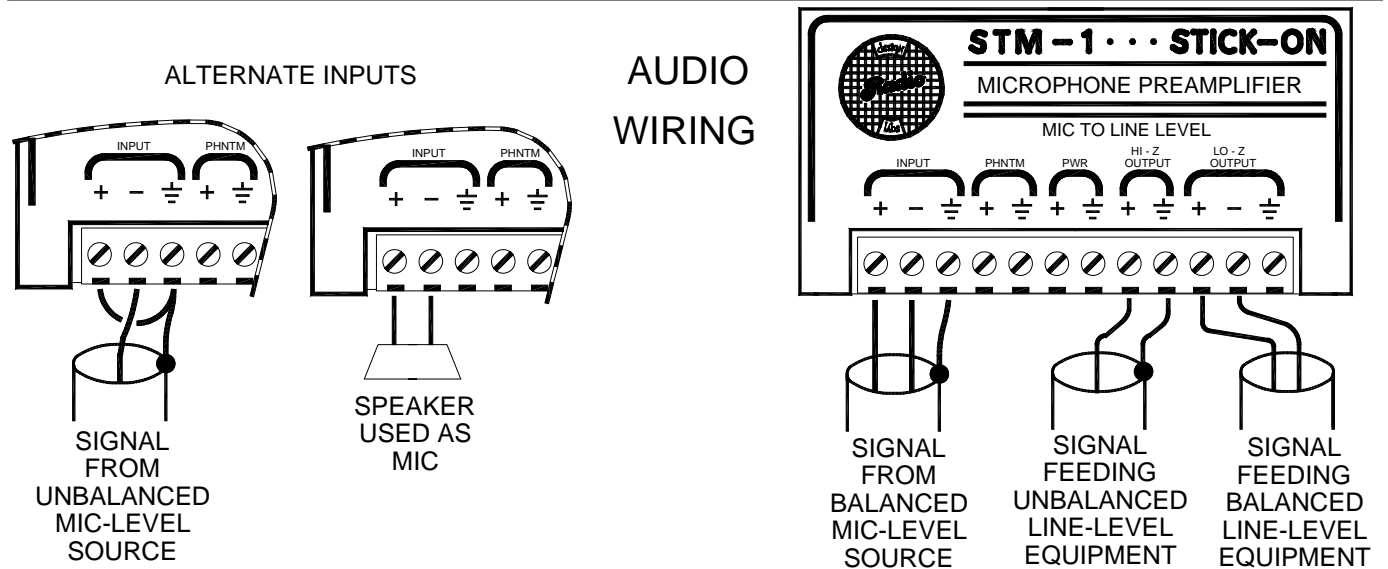
## Model STM-1

### Mic to Line Level Preamp

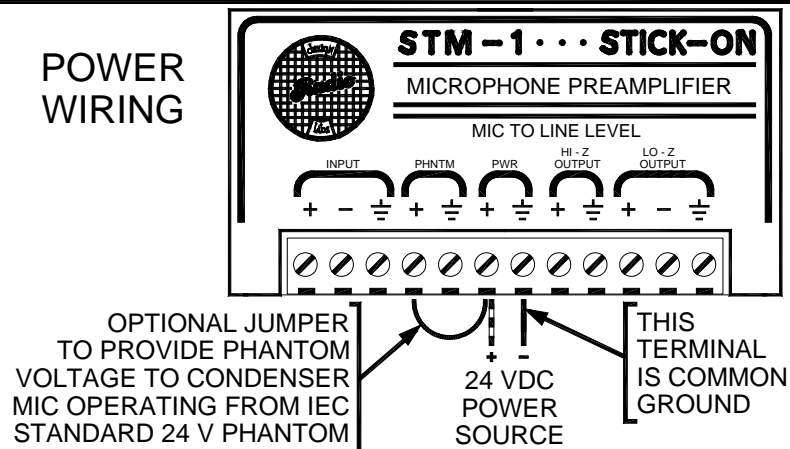
## Installation/Operation



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.



## POWER WIRING



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

Input:	500 Ω balanced; 5 kΩ unbalanced
Phantom Voltage and Buildout:	24 Vdc; IEC 1938: 1996-12, Internally filtered
Outputs (2):	+4 dBu (nominal) 150 Ω balanced; -10 dBV (nominal) unbalanced
Frequency Response:	50 Hz to 20 kHz (+/- 1.5 dB)
Gain:	50 dB
THD+N:	< 0.050% (50 dB gain)
Residual Noise:	< -70 dB (below +4 dBu 150 Ω source)
CMRR:	> 60 dB (50 Hz to 20 kHz)
Headroom:	> 20 dB (24 Vdc supply); 14 dB (12 Vdc supply); 10 dB (9 Vdc supply)
Phantom Power Input:	24 to 33 Vdc @ 10 mA maximum, Ground-referenced
Power Requirement:	24 to 33 Vdc @ 25 mA, Ground-referenced

Radio Design Labs Technical Support Centers

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TYPICAL PERFORMANCE