



RDL®
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES

Model STM-1

Mic to Line Level Preamplifier

- High or Low Impedance Input Mic Preamp
- Fixed 50 dB of Gain for Consistency
- Balanced or unbalanced Outputs
- Phantom Capability
- RF Filtered Inputs and Outputs
- Excellent Performance
- STICK-ON Convenience



The STM-1 is part of the group of 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. STICK-ONS are designed, built and rated for continuous duty in professional A/V systems.

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 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
- Ground-referenced supply input operates from 24 Vdc to 33 Vdc (12 Vdc at reduced headroom)
- Separate balanced and unbalanced line-level 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 individually, or combine it with other RDL products as part of a complete audio/video system.

STICK-ON[®] SERIES

Model STM-1

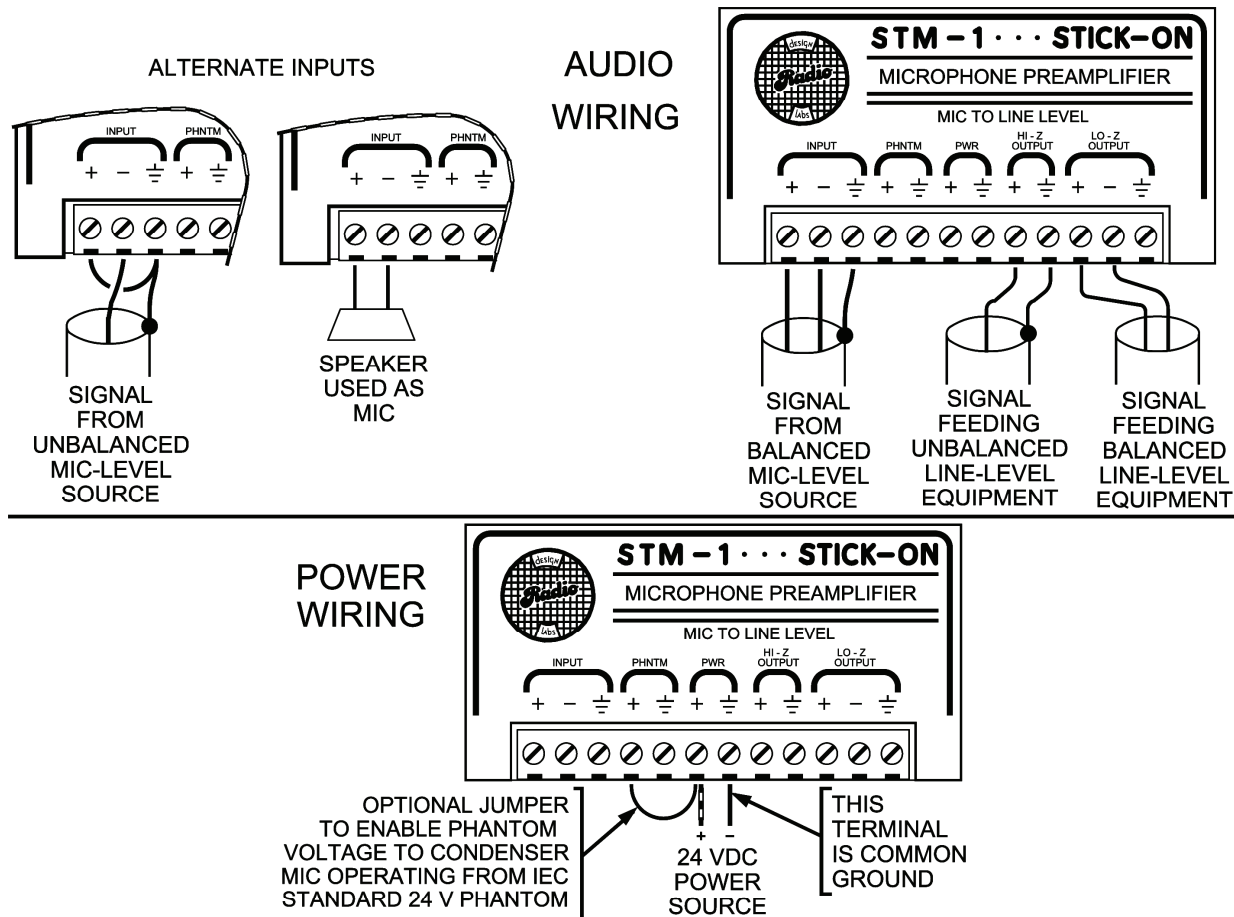
Mic to Line Level Preamplifier

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.



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

TYPICAL PERFORMANCE

Input:	500 Ω balanced; 5 k Ω unbalanced
Phantom:	24 Vdc; IEC 61938: 2013, Filtered
Outputs (2):	+4 dBu (nominal) 150 Ω balanced; -10 dBV (nominal) unbalanced
Frequency Response:	50 Hz to 30 kHz (± 1.5 dB)
Gain:	50 dB
THD+N:	< 0.050% (50 dB gain)
CMRR:	> 50 dB (50 Hz to 20 kHz)
Residual Noise:	< -70 dB (below +4 dBu; 150 Ω source @ 50 dB gain)
Ambient Operating Environment:	0° C to 55° C
Headroom:	> 20 dB (24 Vdc supply); > 14 dB (12 Vdc supply)
Ambient Operating Environment:	0° C to 55° C
Power Requirement:	24 Vdc @ 25 mA, Ground-referenced (9 to 23 Vdc with reduced headroom and reduced phantom voltage)

Radio Design Labs Technical Support Centers

U.S.A. (800) 933-1780, (928) 778-3554; Fax: (928) 778-3506

Europe [NH Amsterdam] (+31) 20-6238 983; Fax: (+31) 20-6225-287