



RDL®
Radio Design Labs

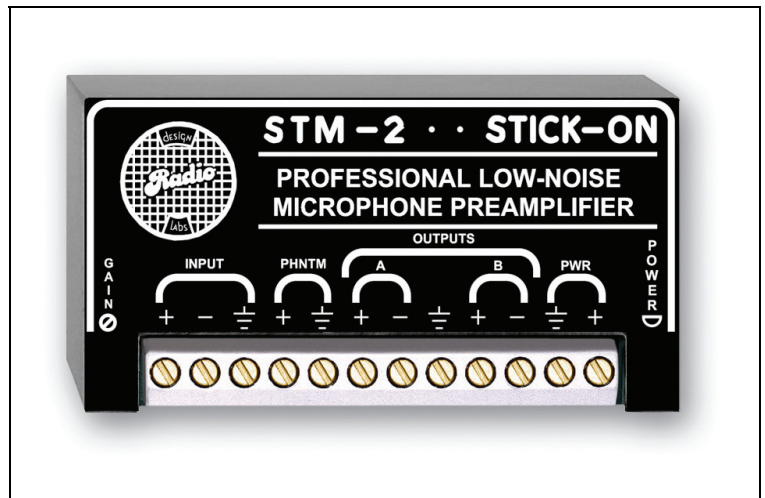
SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES

Model STM-2

Mic to Line Level Preamplifier

- Low-Noise Mic Preamp
- Adjustable Output Level
- High or Low Impedance Mic Inputs
- Mic Input to 2 Line Outputs
- Two Balanced or Unbalanced Outputs
- Phantom Capabilities
- RF-Filtered Inputs



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-2 is a quality microphone preamplifier designed for use in commercial sound, broadcast, and recording applications. The STM-2 is very flexible with gain adjustment from 35 to 65 dB, two balanced or unbalanced outputs, and available phantom supply input! 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-2 the ideal choice for both permanent and mobile equipment installations. Some features of the STM-2 are:

- Balanced microphone input accepts impedances from 150 to 600 Ω
- Input circuitry permits connection of unbalanced microphones, or 4 or 8 Ω speakers in intercom or monitoring applications
- Variable gain (up to 65 dB) and ample headroom allow operation with any mic
- Phantom supply input terminals allow connection of external power when STM-2 is used with phantom powered microphones
- Supply input is single-ended and operates from 24 Vdc to 33 Vdc (12 Vdc at reduced headroom)
- Two separate outputs are provided for balanced operation
- No lugs required for reliable connections
- Convenience of STICK-ON package yields quick, efficient installation
- Use STM-2 in conjunction with other RDL STICK-ONs to make complete audio systems
- A short-circuit on one output does not affect the other output

Anywhere you need an adjustable mic to line preamplifier, STM-2 is the reliable and cost-effective solution!

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Model STM-2

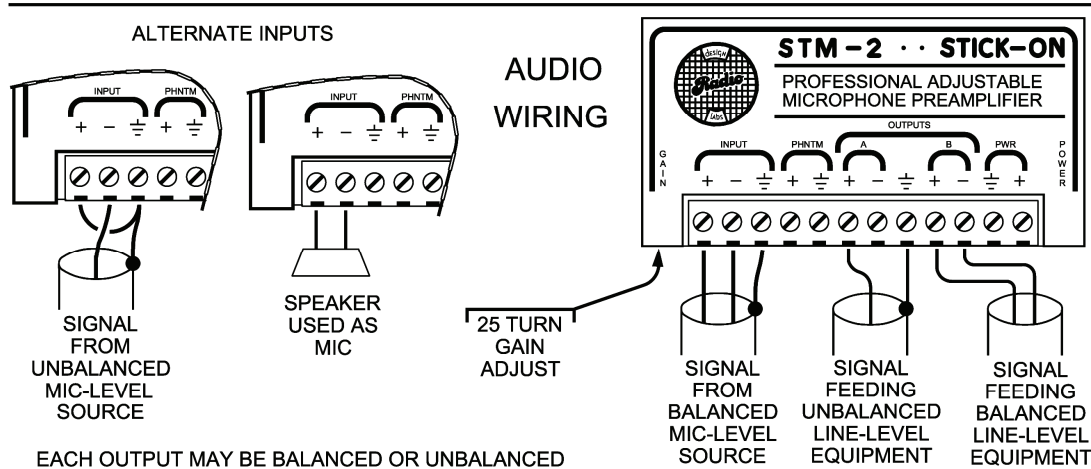
Mic to Line Level Preamplifier

Installation/Operation

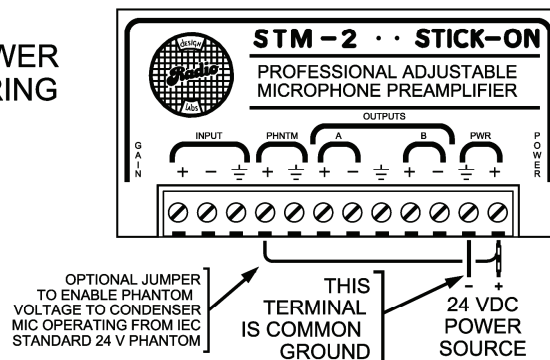


EN55103-1 E1-E5; EN55103-2 E1-E4

Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



POWER WIRING



NOTE: THE STM-2 WILL OPERATE (WITH REDUCED HEADROOM) ON SUPPLY VOLTAGES FROM 9 TO 23 VDC.

TYPICAL PERFORMANCE

Input:	500 Ω balanced; 5 k Ω unbalanced
Phantom:	24 Vdc; IEC 61938: 2013, Filtered
Outputs (2):	+4 dBu 150 Ω balanced; -10 dBv unbalanced
Frequency Response:	50 Hz to 30 kHz ($\pm$ 1.5 dB)
Gain:	Adjustable 35 to 65 dB
THD+N:	< 0.050%
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)