



RDL[®]
Radio Design Labs

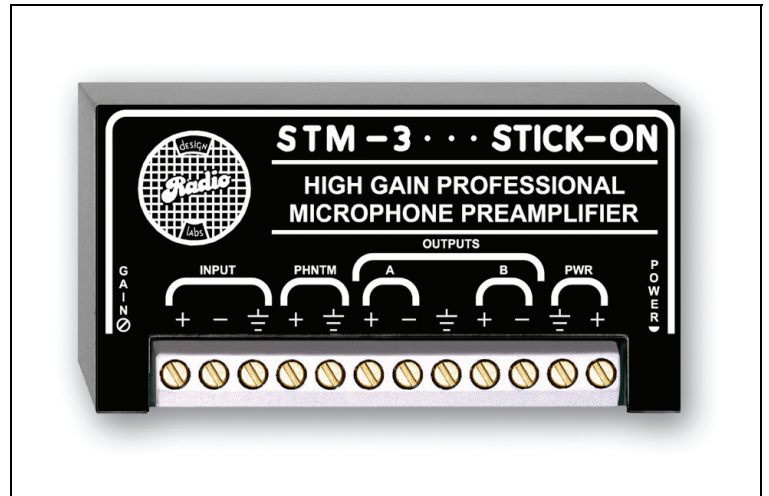
SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON[®] SERIES

Model STM-3

High Gain Mic Preamp

- Low-Noise, High Gain, Mic Preamp
- Adjustable Output Levels
- High or Low Impedance Mic Inputs
- Mic Input to Line Outputs
- Two Balanced or Unbalanced Outputs
- Phantom Capability
- RF-Filtered Inputs



The STM-3 is part of a group of products in the STICK-ON series from Radio Design Labs. The durable adhesives provided with the STM-3 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-3 is a quality microphone preamplifier designed for use in commercial sound, broadcast, and recording applications. The STM-3 is very flexible with gain adjustment from 45 to 75 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 preamplifier cannot be used. The high gain of the STM-3 makes it useful with normal mics in facilities using a +8 dB standard. It is also suited for use with ceiling mics or speakers designed to pick up general activity in a room requiring more than usual gain. Some features of the STM-3 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 (45 to 75 dB) and ample headroom allow operation with any mic
- Phantom supply input terminals allow connection of external power when STM-3 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-3 in conjunction with other RDL STICK-ONS to make complete audio systems

Anywhere you need a high-gain Mic to Line preamplifier, STM-3 is the reliable and cost-effective solution!

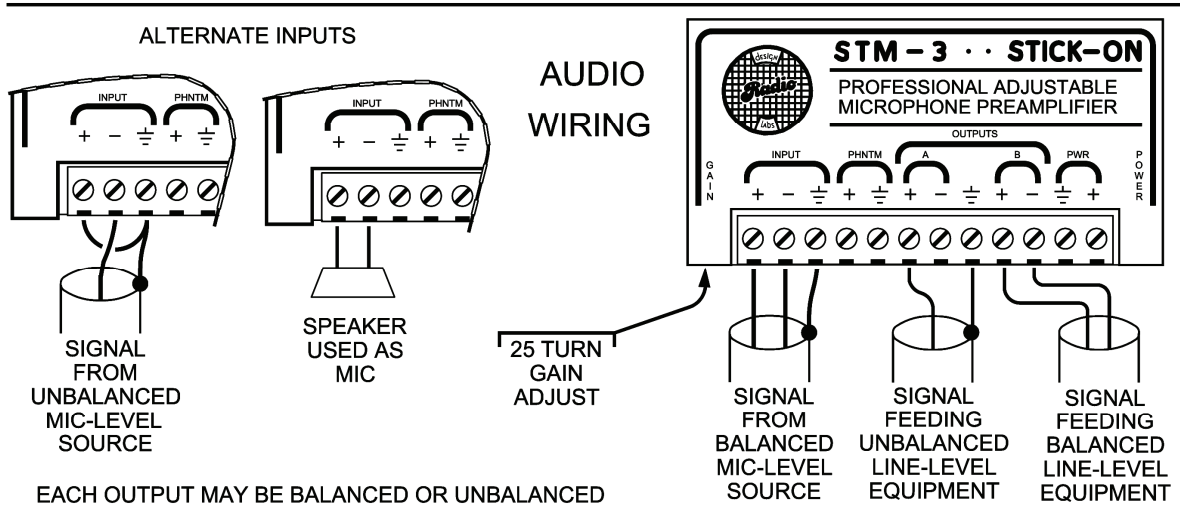
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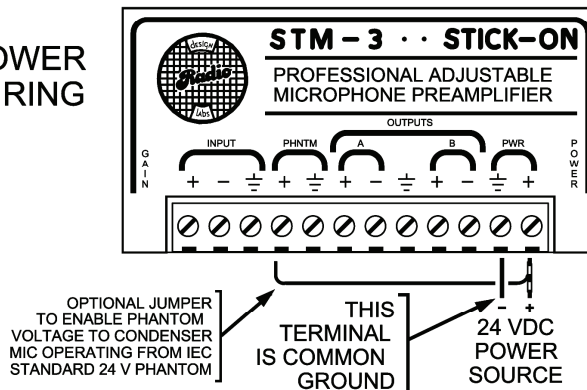
High Gain Mic Preamp

Installation/Operation

CE 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-3 WILL OPERATE (WITH REDUCED HEADROOM) ON SUPPLY VOLTAGES FROM 9 TO 23 VDC.

TYPICAL PERFORMANCE

Input:	500 Ω balanced; 5 kΩ unbalanced
Phantom:	24 Vdc; IEC 61938: 2013, Filtered
Output (2):	+4 dBu 150 Ω balanced; -10 dBV unbalanced
Frequency Response:	50 Hz to 30 kHz (± 1.5 dB)
Gain:	Adjustable 45 to 75 dB
THD+N:	< 0.05% (50 dB gain)
CMRR:	> 50 dB (50 Hz to 20 kHz)
Residual Noise:	< -70 dB (below +4 dBu, 150 Ω source)
Headroom:	> 20 dB (24 Vdc supply); 14 dB (12 Vdc supply)
Ambient Operating Environment:	0° C to 55° C
Power Requirement:	GROUND-REFERENCED, 24 Vdc @ 25 mA (9 to 23 Vdc with reduced headroom and reduced phantom voltage)