



RDL® Radio Design Labs®

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES

Model ST-AMC3

Active Mic Combiner

ANYWHERE YOU NEED...

- To Actively Combine Up To 3 Mics
- Microphone Level Summing With Electronic Isolation
- Balanced or Unbalanced Mic Combining
- To Expand Mic Inputs of Existing Mixer
- To Sum Mics of Different Level/Impedance



You Need The ST-AMC3!

APPLICATION: The ST-AMC3 is part of a group of products in the STICK-ON series from Radio Design Labs. The durable bottom adhesive permits quick, permanent mounting nearly anywhere or it may be used with RDL's racking accessories. The ST-AMC3 gives you the advantages of an all mic-level audio mixer with a big PLUS...you can put it where you need it!

The ST-AMC3 is a utility 3-channel audio mixer for combining mic-level signals to a mic-level output. It can be wired to a mic input on a mic mixer, thereby adding 3 additional mic inputs to an existing mixer. Or it can be used by itself anywhere more than one mic needs to feed a single mic input. Because the ST-AMC3 inputs are electrically isolated, it can be used to combine mics that also feed inputs on other equipment.

Individual level control is provided for each input. Each input features a separate input circuit that isolates it from the other inputs. Signals from the three input amplifiers are actively summed and fed to the output mic-level driver amplifier. The mic-input circuit design allows the inputs to accept either balanced low-impedance mics or high-impedance unbalanced mics. The output is capable of driving into either high or low impedance, balanced or unbalanced loads. The output impedance is 150 Ω . If condenser mics are to be used, the inputs may be adapted for phantom power using RDL's ST-MPA2 Microphone Phantom Adapter.

- Mic levels individually adjustable
- Complete isolation between inputs
- Ample headroom at operating level
- Combine mics of differing impedance or balanced/unbalanced configuration
- Output short-circuit protected
- Positive connections via barrier block - no audio connectors to wire



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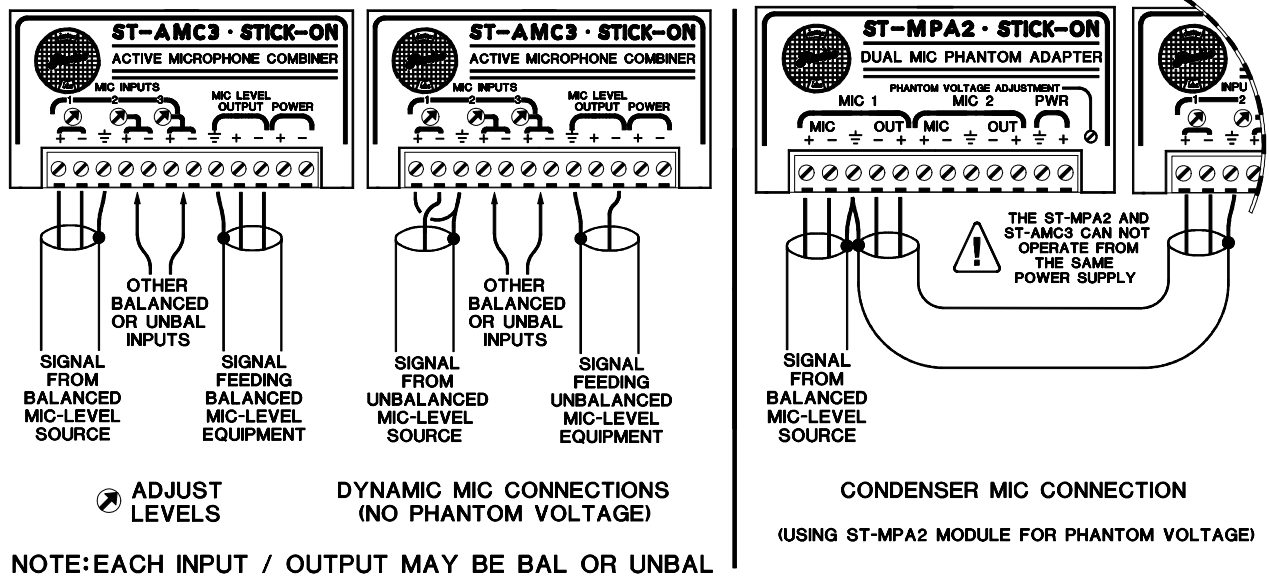
Model ST-AMC3 Active Mic Combiner

Installation/Operation

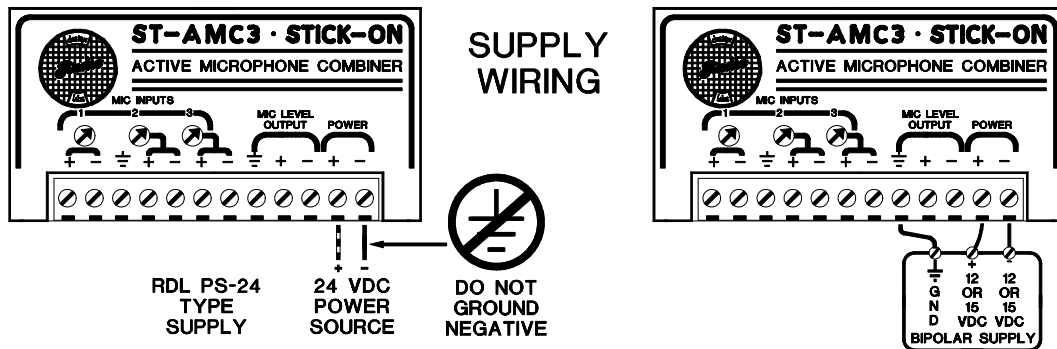


EN55103-1 E1-E5; EN55103-2 E1-E4
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.

AUDIO WIRING



SUPPLY WIRING



TYPICAL PERFORMANCE

Input:	3 @ 600 Ω balanced; 5kΩ unbalanced
Input Signal:	-75 dBu to -40 dBu (for 55 dBu output)
Output:	150 Ω to drive low or high impedance, balanced or unbalanced lines
Gain:	Adjustable; 16 dBu under unity to 20 dBu over unity
THD+N:	< 0.200%, typical 0.100%
Frequency Response:	10 Hz to 18 kHz (+/- 1 dB)
Noise:	< -75 dB below -50dBu (600 Ω source; all inputs @ unity gain)
Headroom:	18 dB
CMRR:	>55 dB @ 60 or 120 Hz
Power Requirement:	24 to 33 Vdc @ 55 mA, Floating