



RDL[®]
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON[®] SERIES

Model ST-MLX3

Mic and Line to Line Level Mixer

ANYWHERE YOU NEED...

- Mic and Line Audio Mixing
- Balanced or Unbalanced Inputs and Output
- To Add Additional Inputs to Existing Mixer
- To Combine Signals of Different Levels or Impedance
- Expandable Add-On Mixing System



You Need The ST-MLX3!

The ST-MLX3 is part of a group of products in the STICK-ON series from Radio Design Labs. The durable bottom adhesive permits quick, permanent or removable mounting nearly anywhere or it may be used with RDL's STR-19A or STR-19B racking systems. The ST-MLX3 gives you the advantages of a combination mic/line audio mixer with the added convenience of Stick-Ons!

APPLICATION: The ST-MLX3 is a 3-channel utility audio mixer for combining one or two line-level signals with a mic-level signal, all to a single line-level output.

Individual level control is provided for each input. Each input features a separate preamplifier circuit, which isolates it from the other inputs. Signals from the three preamps are actively summed and fed to the output line-level driver amplifier. The line-input circuit allows the inputs to accept either balanced or unbalanced signals, of either high or low impedance. 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. Each output may be connected in parallel with ST-MX3s or ST-MMX3s to form a multi-channel mixer to fit nearly any installation! The ST-MLX3 features dc amplifier circuitry which produces the unsurpassed pure clarity for which Radio Design Labs products are known! Some features are:

- Ultra-low distortion and noise
- Individually adjustable input levels
- Ample headroom at operating level
- Full operation in either high or low impedance circuits
- Outputs short-circuit protected
- Positive connections via barrier block - no audio connectors to wire

Anywhere you need a small, simple, quality mic and line input utility mixer, the ST-MLX3 is the cost-effective solution!

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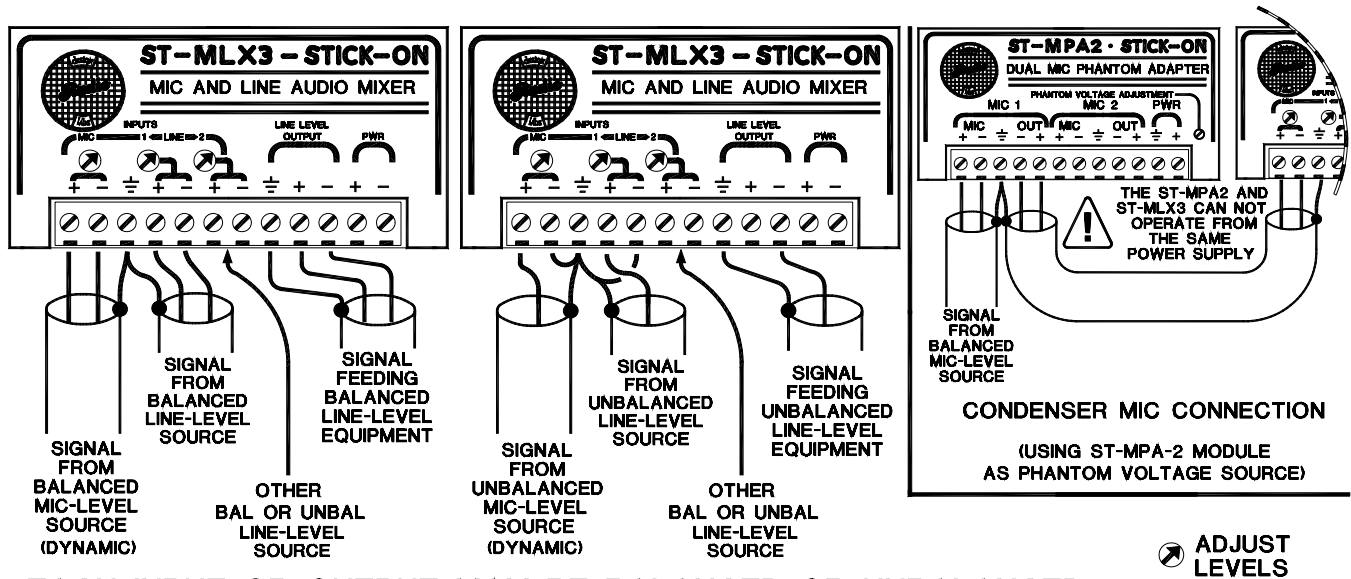
Mic and Line to Line Level Mixer

Installation/Operation

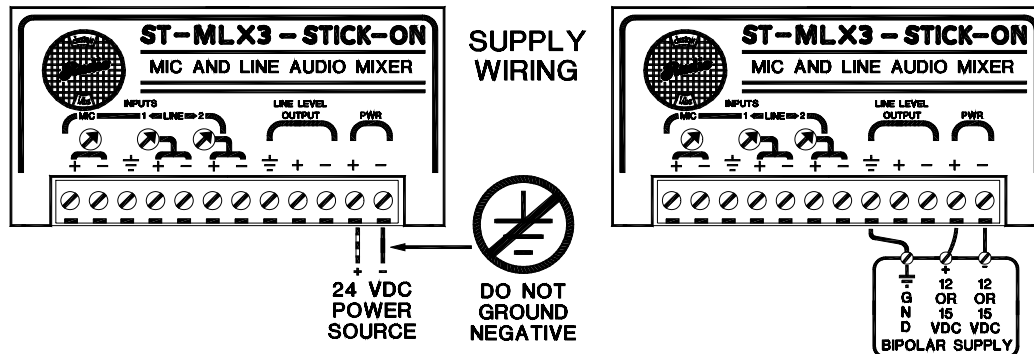


EN55103-1 E1-E5; EN55103-2 E1-E4
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.

AUDIO WIRING



EACH INPUT OR OUTPUT MAY BE BALANCED OR UNBALANCED



TYPICAL PERFORMANCE

Inputs: 2 @ >30 k Ω balanced or unbalanced bridge, line level

NOTE: MIC INPUT ON ST-MLX3 IS NOT PROTECTED AGAINST PHANTOM VOLTAGE. IF CONDENSER MICS ARE TO BE CONNECTED, USE RDL'S ST-MPA2

1 @ 600 Ω balanced; 5 k Ω unbalanced, mic level

Input Signal:

Line: -20 dBu to +18 dBu (for +4 dBu output)

Mic: -66 dBu to -26 dBu (for +4 dBu output)

Output: 400 Ω to drive low or high impedance balanced or unbalanced lines

THD: Line: < 0.030% (below +4 dBu 10 Hz to 20 kHz)

Mic: < 0.200% typical 0.100% (10 Hz to 10 kHz)

Freq. Response:

Line: +/- 0.50 dB 10 Hz to 20 kHz

Mic: +/- 1dB 10 Hz to 18 kHz

Headroom:

Gain: Line: Adjustable from -14 dB to +24 dB

Mic: Adjustable from -70 dB to -30 dB

CMRR:

Line: > 50 dB at 60 or 120 Hz

Mic: > 55 dB at 60 or 120 Hz

Noise Below +4 dBu:

< -70 dB (line inputs @ unity gain; mic input 50 dB gain; inputs unterminated)

< -60 dB (line inputs @ unity gain; mic input 50 dB gain; inputs 500 Ω terminated)

Power:

24 to 33 Vdc @ 55 mA, Floating

Radio Design Labs Technical Support Centers

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