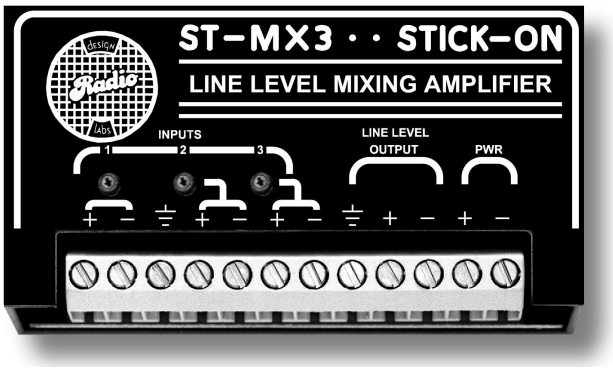
RDL® Radio Design Labs®

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES

Model ST-MX3
Line Level Mixer



ANYWHERE YOU NEED...

- Audio Mixing with Up To Three Inputs
- Balanced or Unbalanced Inputs & Outputs
- To Add Additional Inputs to an Existing Mixer
- To Combine Signals of Different Level, Impedance, or Bal./Unbal. Configuration
- Low Noise and Low Distortion Performance

You Need The ST-MX3!

The ST-MX3 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 racking accessories. The ST-MX3 gives you the advantage of a high performance audio mixer with a big PLUS, you can put it where you need it, and you can combine modules to build larger mixing systems using whatever combination you need!

APPLICATION: The ST-MX3 is a three-channel audio mixer for combining line-level signals to a 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. A trimpot gain adjustment is provided for each of the three input preamps. Signals from the three preamps are actively summed and fed to the output line-level driver amplifier. The line-input circuit design of the ST-MX3 allows the inputs to accept either balanced to unbalanced signals, or either high or low impedance. The output capable of driving into either high or low impedance, balanced or unbalanced loads. Each output may be connected in parallel with other ST-MMX3s, ST-MX3s, or ST-MLX3s to form a multi-channel mixer to fit nearly any installation! The ST-MX3 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
- Input Levels Individually Adjustable
- 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
- RDL Power Supply provided with ST-MX3 can drive up to 6 Mixer Modules

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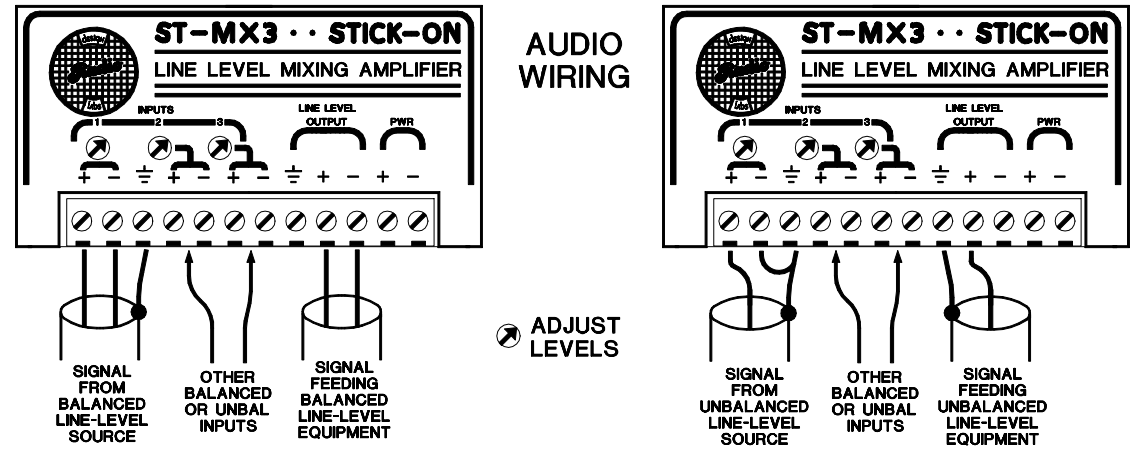
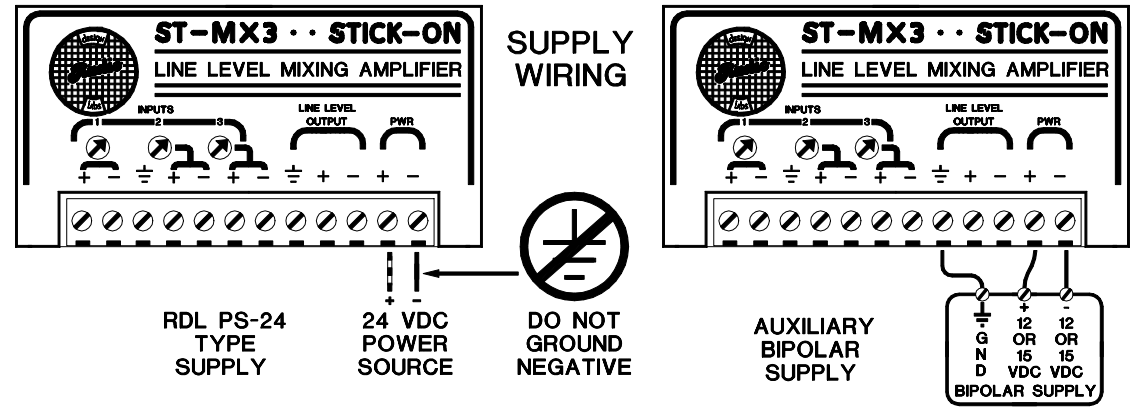
Installation/Operation

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.





TYPICAL PERFORMANCE

Inputs:	3 @ > 30 kΩ balanced or unbalanced bridging
Input Signal:	-20 dBu to +18 dBu (for +4 dbu output) -24 dBu to +14 dBu (for 0 dBu output)
Output:	400 Ω to drive low or high impedance balanced or unbalanced lines
Output Signal:	+4 dBu nominal, adjustable unbalanced output 6 dB below balanced line level
THD:	< 0.03% (below +4 dBu 10 Hz to 20 kHz)
Frequency Response:	10 Hz to 20 kHz +/- 0.50 dB
Noise below +4 dBu:	< -80 dB (all inputs @ unity gain) < -80 dB (all inputs @ 10 dB gain) < -75 dB (all inputs @ 20 dB gain)
Headroom:	22 dB
Gain (each input):	Adjustable from -14 dB to +24 dB
CMRR:	> 50 dB at 60 or 120 Hz
Multiple Module System Loss:	6 dB with two module outputs paralleled 10 dB with three module outputs paralleled 12 dB with four module outputs paralleled
Supply Input:	24 to 33 Vdc @ 55 mA, Floating

Radio Design Labs Technical Support Centers
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