



RDL[®] Radio Design Labs[®]

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON[®] SERIES

Model ST-UMX3

Universal Audio Mixer

ANYWHERE YOU NEED...

- Audio Mixing with Up To Three Inputs
- Switch Selectable Mic or Line Inputs
- Switch Selectable Mic or Line Output
- To Add Additional Microphone or Line Level Inputs to an Existing Mixer
- To Combine Signals of Different Level, Impedance, or Bal./Unbal. Configuration



You Need The ST-UMX3!

The ST-UMX3 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-UMX3 gives you the advantage of a high performance audio mixer with a big PLUS, you can put it where you need it.

APPLICATION: The ST-UMX3 is a three-channel audio mixer for combining mic-level or line-level signals to a single output. A MIC/LINE switch is provided for each input. A separate MIC/LINE switch selects the output level. Each input features a separate preamplifier circuit, which isolates it from the other inputs. An audio-taper, single-turn 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 output amplifier includes an RDL dual-LED VU meter.

The mic-level input circuits accept either balanced low-impedance mics or high-impedance unbalanced mics. The line-level input circuits bridge any line-level audio source. The output is switch-selectable for mic-level or line-level, and is capable of driving either high or low impedance, balanced or unbalanced loads.

Each input level is set while observing the LED output level meter. The dual LED output meter follows standard VU ballistics. The intensity of the green LED progresses from minimum at -11 dBu to full intensity at +4 dBu. Flashing of the red LED is equivalent to a VU meter needle swinging above the **0** level. If the output is switched to MIC level, the meter continues to indicate correct operating level. The output MIC level is padded 50dB below the normal LINE output level.

The ST-UMX3 is powered from ground-referenced 24 Vdc, permitting the module to share a common power source with most RDL modules.

The flexibility of switching each input and the output between MIC or LINE allows installers to address a wide variety of mixing solutions with only one product type. Wherever a flexible mic and line level mixing amplifier is needed, the ST-UMX3 is the ideal choice. Use the ST-UMX3 combined with other RDL RACK-UP[®], STICK-ON, TX[™], or FLAT-PAK[™] series products as part of a complete audio/video system.



STICK-ON® SERIES

Model ST-UMX3

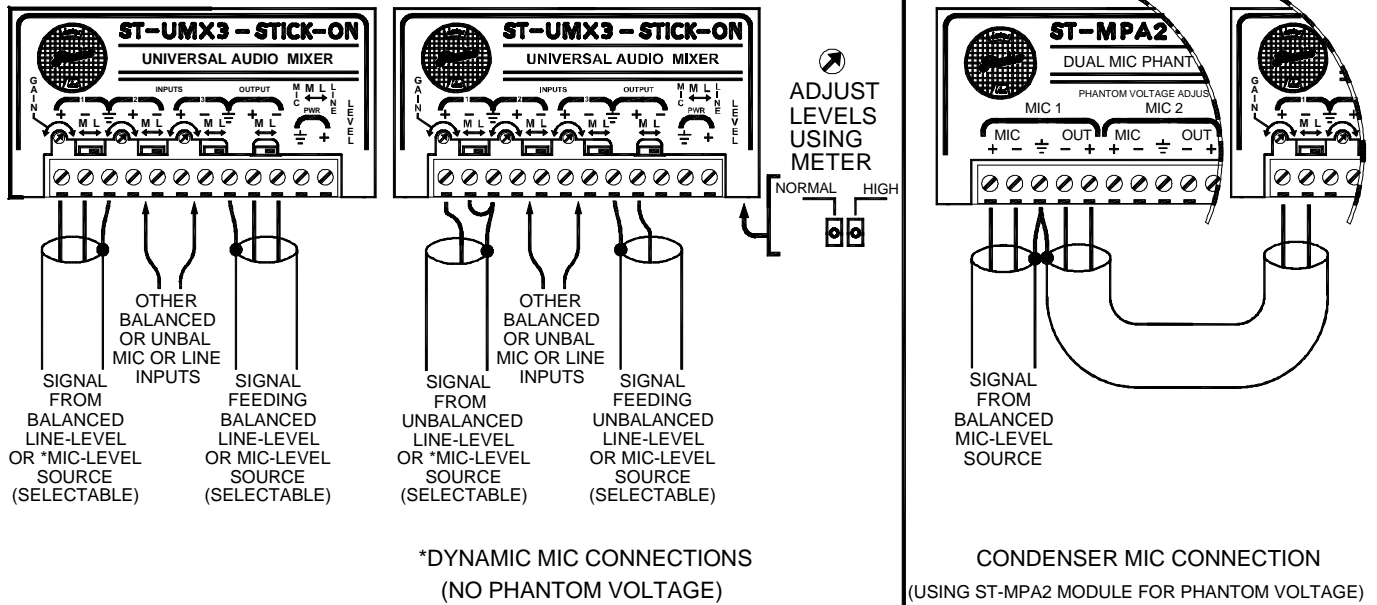
Universal Audio Mixer

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

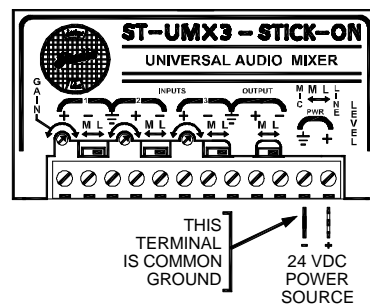


SELECTABLE MIC OR LINE LEVEL
 EACH INPUT AND THE OUTPUT MAY
 BE SET TO MIC OR LINE LEVEL



ADJUST LEVELS

SUPPLY WIRING



TYPICAL PERFORMANCE

Inputs (3):	Mic: 600 Ω balanced; Line: 50 kΩ balanced NOTE: MIC INPUTS ON ST-UMX3 ARE NOT PROTECTED AGAINST PHANTOM VOLTAGE. USE THE ST MPA2 Mic Phantom Adapter.	THD+N:	< 0.006%
Max Input Signal:	Mic: -18 dBu; Line: +25 dBu	IMD:	Mic (@ 50dB gain): < 0.04%; Line: < 0.008%
Gain (each input):	Mic: Adjustable from OFF to 60 dB Line: Adjustable from OFF to 21 dB	Freq. Response:	Mic: 50 Hz to 100 kHz (+/- 1 dB) Line: 10 Hz to 100 kHz (+/- 0.05 dB)
Output:	150 Ω balanced; 75 Ω unbalanced	Noise (each input):	Mic: < -70 dB (50 dB gain) Line: < -82 dB (unity gain)
Output Signal:	+4 dBu nominal, mic level 50 dB below line level	Headroom:	18 dB
		CMRR:	Mic: > 60 dB; Line: > 50 dB (50 to 120 Hz)
		Power Req.:	24 to 33 Vdc @ 55 mA, Ground-referenced

Radio Design Labs Technical Support Centers

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