SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

FLAT-PAK™ SERIES
Model FP-BUC2
Balanced to Unbalanced Converter

ANYWHERE YOU NEED...

- Stereo Balanced to Unbalanced Audio Conversion
- Connectorized Audio Converter
- Output Level Trim
- Low Noise and Distortion
- Cabinet, Shelf or Rack Mounting
- Convenience of RDL FLAT-PAKs

You Need The FP- BUC2!

The FP-BUC2 is part of the group of versatile FLAT-PAK products from Radio Design Labs. The unique FLAT-PAK case can be directly screwed or bolted to cabinets or shelves. Optionally available rack-mounting accessories permit single or multiple FLAT-PAK module mounting. All FLAT-PAK modules are supplied with a power interconnect cable for daisy-chaining multiple modules from a single power supply.

APPLICATION: The FP-BUC2 is the ideal choice for connectorized conversion from balanced to unbalanced audio. This module features two identical active (transformerless) channels. Gold contact XLR jacks are utilized for the balanced input channels. Each output is unbalanced, connected through a gold-plated phono jack. A level trim potentiometer is provided for each channel. Power connections are made using either the full-size barrier block terminals or a dc power jack located in one end panel. A second dc power jack is provided on the other end panel for connecting additional FLAT-PAK modules.

The normal level setting is indicated for the trimming potentiometer. This setting produces a -10 dBV unbalanced output for a +4 dBu balanced input. The gain is adjustable +/-6 dB from the normal gain. A -10 dBV output signal is possible from input signals ranging from –2 dBu to +10 dBu.

The FP-BUC2 circuitry features low noise and distortion, excellent headroom and crosstalk performance and the superior audio clarity for which RDL products are known. The FP-BUC2's low profile and compact size permit mounting in confined spaces and in various locations in equipment racks. The location of the input/output jacks permits high-density mounting against flat surfaces while maintaining accessibility to the connectors. Installations requiring multiple connectorized audio converters are ideally designed using FP-BUC2s affixed to rack sides, or by mounting them to either the front or rear rack rails using the RDL FP-RRA.

Wherever convenient, economical, high performance, connectorized two-channel audio format conversion is required, the FP-BUC2 is the ideal choice. Use the FP-BUC2 individually, or combine it with other RDL RACK-UP®, STICK-ON®, TX™, or FLAT-PAK series products as part of a complete audio/video system.

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RDL® Radio Design Labs

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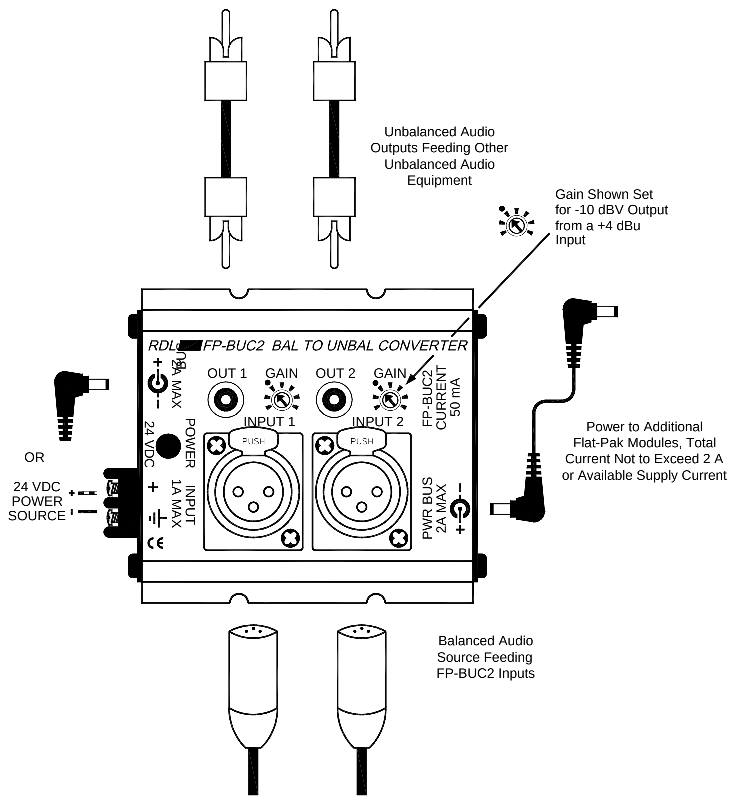
Installation/Operation

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.



TYPICAL PERFORMANCE

Amps per FP-BUC2:	2 identical circuits (stereo or dual mono operation)
Gain:	+/- 6 dB adjustable (relative to –10 dBV output for +4 dBu input); (separate controls for each channel)
Input level:	–2 dBu to +10 dBu (for -10 dBV output)
Input impedance:	20 kΩ
Input configuration:	Balanced bridging
Output Level:	-10 dBV
Output impedance:	75 Ω (drives 600 Ω or 10 kΩ unbalanced lines)
Output configuration:	Unbalanced
Frequency Response:	10 Hz to 40 kHz (+/- 0.1 dB)
THD+N:	< 0.005% (10 Hz to 40 kHz)
IMD:	< 0.005%
Headroom:	> 18 dB (at rated output level of -10 dBV)
Noise:	< -90 dB (referred to -10 dBV, 20 Hz to 20 kHz) Typ. –95 dB (rel. –10 dBV, "A-Weighted")
CMRR:	>50 dB (20 Hz to 5 kHz)
Crosstalk:	Better than -90 dB (20 Hz to 20 kHz)
Power Requirement:	24 Vdc @ 50 mA, Ground-referenced
Overall Dimensions:	Height: 1.29 in. 3.28 cm
	Width: 3.25 in. 8.26 cm
	Length: 4.07 in. 10.34 cm

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