RDL®
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

RACK-UP® SERIES

Model RU-AFC2

Stereo Audio Format Converter

- Unparalleled Audio Performance
- Unbalanced to Balanced Audio Conversion
- Additional Summed MONO Out
- Switch-Selectable Ground Lift for XLR Output Jacks
- Balanced to Unbalanced Audio Conversion
- Unbalanced RCA Connections on Front Panel
- Balanced XLR Connections on Front Panel
- Balanced Connections on Rear Panel Detachable Terminal Blocks
- Front-Panel Multi-Turn LEVEL Trimmers
- Dual-LED VU Meter for Each Channel
- Gold-Plated Connectors
- Exceptional Headroom and Frequency Response
- 1/3 Rack, High Density Rack Mounting

The RU-AFC2 is part of the group of RACK-UP products from Radio Design Labs. RACK-UPs feature the advanced circuitry for which RDL products are known, combined with accessible user-friendly controls and displays. The ultra compact design permits high-density installations, with *three* products mounted in a single rack unit. Optional brackets permit mounting a RACK-UP module above, below, or in front of any flat surface.

APPLICATION: The RU-AFC2 is a stereo bi-directional audio format converter. The bi-directional format allows the RU-AFC2 to fully convert the stereo input and stereo output of a consumer audio product to professional balanced standards. It can equally convert the stereo input and stereo output of a professional audio product to consumer unbalanced standards. The audio fidelity, low noise, low distortion and excellent crosstalk performance of the RU-AFC2 are ideally suited to the most critical applications. The RU-AFC2 has been carefully engineered in meticulous detail to provide the ultimate audio interface package available.

Unbalanced audio connections are available on front-panel RCA jacks. Balanced audio connections are available on front-panel XLR jacks and on rear-panel detachable terminal blocks. The shield connections of the XLR output jacks are connected to the case through a rear-panel ground-lift switch. The unbalanced to balanced section includes an additional MONO summed output on a rear-panel detachable terminal block which may be wired balanced or unbalanced. The mono output may be used to drive patch-bay jacks, powered monitors or subwoofer amplifiers.

Each of the left and right outputs is equipped with a dual-LED VU-meter. The intensity of the green LED is proportional to the audio level. The red LED flashes at the calibrated output level, -10 dBV unbalanced or +4 dBu balanced. An individual multi-turn level trimmer is provided on the front panel for each output channel.

The RU-AFC2 operates from ground-referenced 24 Vdc. Use the RU-AFC2 individually, or combine it with other RDL products as part of a complete audio/video system.

RDL®
Radio Design Labs
SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

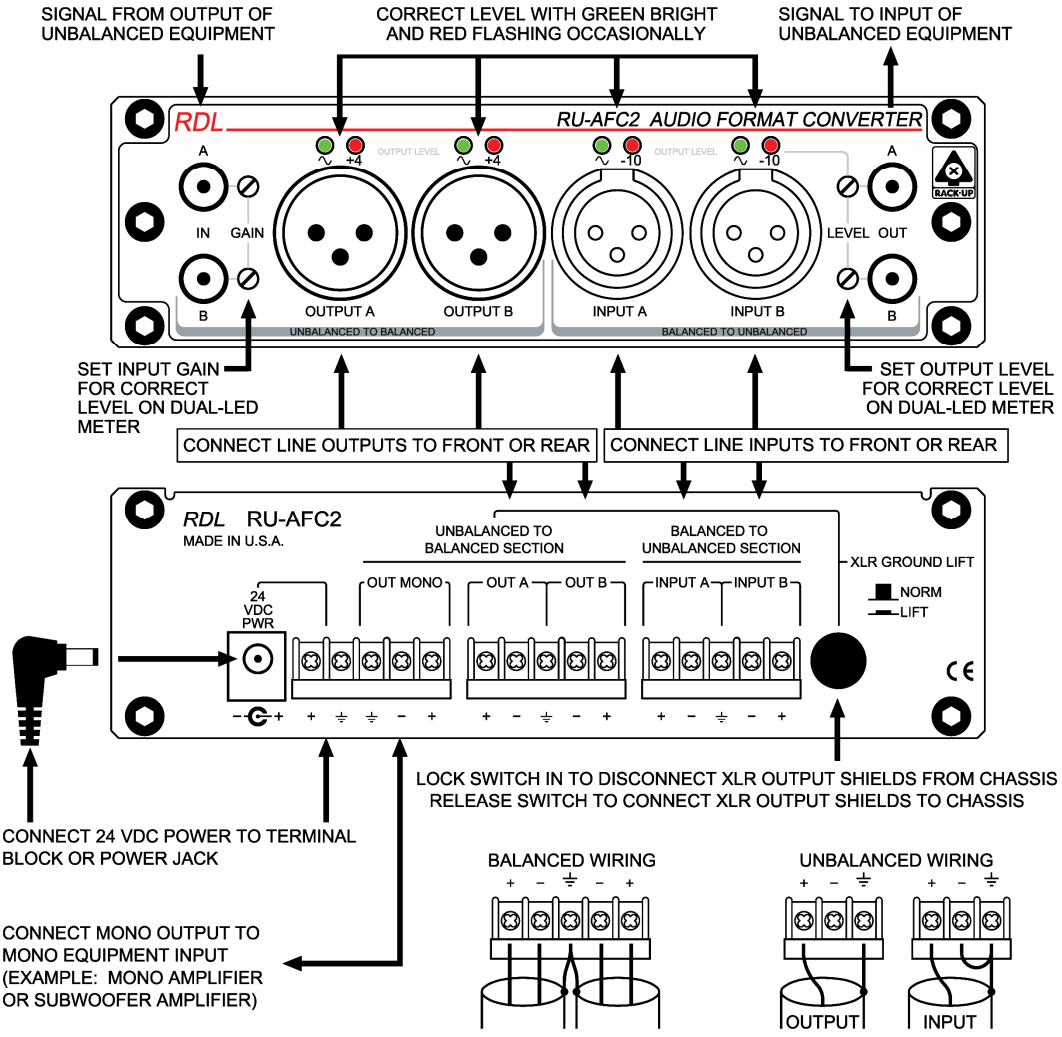
RACK-UP® SERIES

Model RU-AFC2

Stereo Audio Format Converter

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

Unbal to Bal Section:	(Referred to -10 dBV input feeding +4 dBu)
Inputs (2):	Unbalanced line-level, +25 dBV max.
Input Connectors (2):	RCA Phono jack (left and right)
Outputs (3):	+4 dBu balanced (left, right, mono sum), +25 dBu max.
Output Connectors (4):	XLR (2) and/or detachable terminal block (left and right); detachable terminal block (mono sum)
Gain adjustment:	-25 dB to +9 dB (rel. +4 dBu)
Frequency Response:	10 Hz to 150 kHz (+/- 0.25 dB)
THD+N:	< 0.005%
Noise:	< -90 dB (below +4 dBu)
Crosstalk:	< -80 dB (20 Hz to 20 kHz)
Headroom:	> 20 dB

Bal to Unbal Section:	(Referred to +4 dBu input feeding -10 dBV)
Inputs (2):	Balanced line-level, +25 dBu max.
Input Connectors (3):	XLR (2) or detachable terminal block (left and right)
Outputs (2):	-10 dBV unbalanced (left and right), +17 dBV max.
Output Connectors (2):	RCA Phono jack (left and right)
Level adjustment:	-28 dB to +5 dB (rel. -10 dBV)
CMRR:	> 80 dB (50 to 120 Hz)
Frequency Response:	10 Hz to 150 kHz (+/- 0.25 dB)
THD+N:	< 0.001%
Noise:	< -100 dB (below -10 dBV)
Crosstalk:	< -90 dB (10 Hz to 20 kHz)
Headroom:	> 20 dB

Power Requirement:	GROUND-REFERENCED, 24 Vdc @ 60 mA (idle), 100 mA (max)
Ambient Operating Environment:	0° C to 55° C

Radio Design Labs Technical Support Centers
U.S.A. (800) 933-1780, (928) 778-3554; Fax: (928) 778-3506
Europe [NH Amsterdam] (++31) 20-6238 983; Fax: (++31) 20-6225-287