



**RDL**<sup>®</sup>  
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

## **max RACK-UP<sup>®</sup> SERIES** **Model RU-AED4** **Digital Audio Distributor**

### **ANYWHERE YOU NEED...**

- AES/EBU Signal Distribution (1 x 4)
- Operation Up to 24 bits, 96 kHz
- Exclusive **SURE-LOK**<sup>™</sup> Auto-Recovery Sentinel
- Transformer Isolated Input / Outputs
- Digital Signal *Reclocking*
- Input Jack Ground-Lift
- Digital Signal **LOCK** Indication



### **You Need The RU-AED4!**

The RU-AED4 is part of the group of versatile *Max Series* RACK-UP products from Radio Design Labs. *Max Series* RACK-UPs feature all metal chassis and the advanced circuitry for which RDL products are known, combined with accessible, user-friendly controls and displays. The compact design permits high-density installations, with *three* products mounted in a single rack unit! Optional brackets permit mounting a *Max Series* RACK-UP module above, below, or in front of any flat surface. Optional rack-mount adapters (RU-RA3) are available for *Max Series* RACK-UP series installation. *Max Series* RACK-UP modules may be used freestanding as well.

**APPLICATION:** The RU-AED4 is the ideal choice in installations requiring high quality distribution of a digital AES/EBU signal. A single AES/EBU input is decoded, reclocked and retransmitted to four individually buffered transformer isolated AES/EBU outputs.

The RU-AED4 input XLR is 110  $\Omega$  terminated and provides adjacent barrier block terminals giving the user the option of lifting the input ground from the RU-AED4 chassis. Distributed outputs are available on XLR connectors. Separate buffer amplifiers and output transformers for each output provide isolation between outputs. The RU-AED4 is powered from 24 Vdc, which may be connected through the barrier block or through the dc power jack. A front-panel power switch is provided. All inputs and outputs are available on the rear panel.

The RU-AED4 front panel provides a **POWER** LED, and a green **LOCK** LED. The **LOCK** indicator is illuminated whenever the module is locked to a valid AES/EBU digital source without any phase-lock or bit errors.

A frequent problem encountered with consumer and professional quality digital audio equipment is unpredictable latch-up when digital signals are switched or connected to the input. **SURE-LOK**<sup>™</sup> auto-recovery circuitry unique to the RU-AED4 monitors the most frequent causes of latch-up and reinitiates digital signal lock, bringing a new higher level of stability to digital audio signal distribution under the variety of conditions encountered in professional environments.

Wherever broadcast quality digital signal distribution is required, the RU-AED4 is the ideal choice. Use the RU-AED4 individually, or combine it with other RDL products as part of a complete audio/video system.



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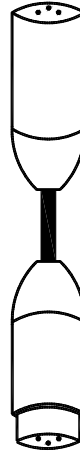
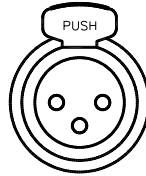
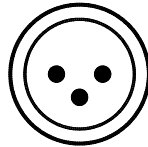
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**Installation/Operation**

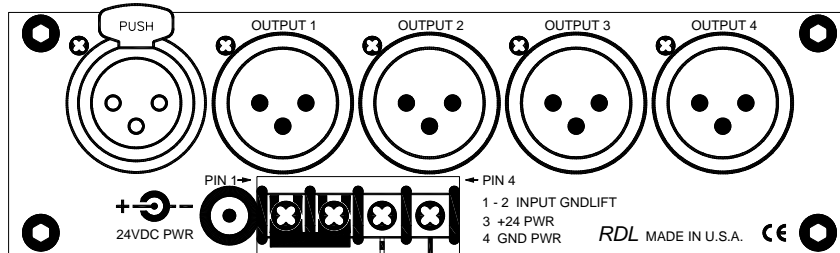


EN55103-1 E1-E5; EN55103-2 E1-E4  
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.

Professional  
AES/EBU  
Source



Professional  
AES/EBU Outputs to  
Other AES/EBU  
Equipment



Optional Pin 1  
Ground-Lift Strap

24 VDC  
POWER  
SOURCE

- OR -



**TYPICAL PERFORMANCE**

Input:	110 Ω AES/EBU XLR, transformer isolated with terminal block ground-lift strap
Outputs (4):	110 Ω AES/EBU XLR, balanced transformer isolated
Sample Rate:	32 kHz to 96 kHz
Resolution:	16 to 24 bits
Indicators (2):	<b>POWER LED</b> and <b>LOCK LED</b> ( <b>LOCK</b> indicates locked to a valid signal)
Standards:	AES3-1992 Amendment 3-1999
Power Requirement:	24 to 33 Vdc @ 225 mA, Ground-referenced
Mounting:	Rack-mount using optional rack adapters such as RU-RA3; or operate free-standing
Dimensions:	Height: 1.7 in 4.3 cm
	Length: 5.8 in 15.0 cm
	Depth: 3.5 in 8.9 cm

Radio Design Labs Technical Support Centers

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