

**RDL**® Radio Design Labs™

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™



## RACK-UP® SERIES

### Model <sup>MAX</sup>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**™ 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.

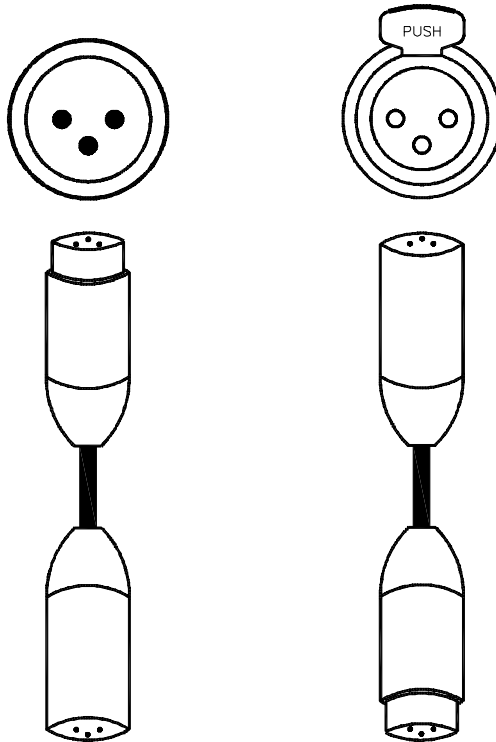
A frequent problem encountered with consumer and professional quality digital audio equipment is unpredictable latch-up when digital signals are switched or connected to the input. **Sure-Lok**™ auto-recovery circuitry unique to the RU-AED4 monitors the most frequent causes of latch-up and reinitiates 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.

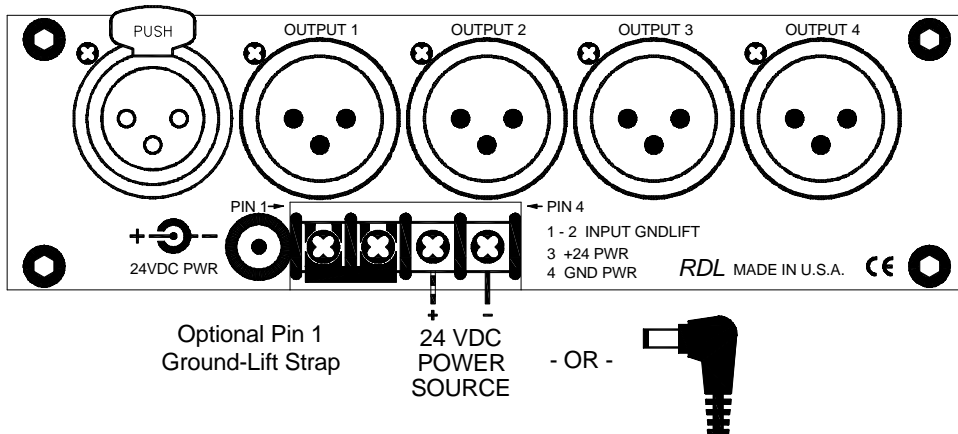
# RU-AED4

## Typical Connections

Professional  
AES/EBU  
Source



Professional  
AES/EBU Outputs to  
Other AES/EBU  
Equipment



### TYPICAL PERFORMANCE

Input:	110 $\Omega$ AES/EBU XLR, transformer isolated with terminal block ground-lift strap	
Outputs (4):	110 $\Omega$ AES/EBU XLR, balanced transformer isolated	
Sample Rate:	32 kHz – 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

EMC:

