RDL®
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

maxRACK-UP® SERIES
Model RU-AEX4
Digital Audio Selector

ANYWHERE YOU NEED...

- Selection of AES/EBU Signals (4 x 1)
- Operation Up to 24 bits, 96 kHz
- Exclusive SURE-LOK™ Auto-Recovery Sentinel
- Transformer Isolated Input / Outputs
- Digital Signal *Reclocking*
- Signal Locked or Error Indication

You Need The RU-AEX4!

The RU-AEX4 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. he 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 installation. *Max Series* RACK-UP modules may be used freestanding as well.

APPLICATION: The RU-AEX4 is the ideal choice in installations requiring high quality source selection between digital AES/EBU signals. Solid-state switching is used to select one of four transformer isolated AES/EBU inputs. The selected input is decoded, reclocked and retransmitted to the transformer isolated electrical AES/EBU output. Each input channel in the RU-AEX4 is connected through a 110 Ω terminated XLR jack. The output is available on a 110 Ω terminated XLR. The RU-AEX4 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-AEX4 front panel selected channel LED flashes whenever the module is not locked to a valid AES/EBU digital source.

The front panel features 4 high-reliability, keyboard-style pushbuttons with corresponding LED indicators to show which digital audio source is active. If the button for an active source is pushed, all digital audio sources are turned off until the next source selection. A front-panel **LOCAL/REMOTE** toggle switch activates either the front-panel buttons or a rear-panel connected remote control. In the **REMOTE** mode, the inputs are selected by an external momentary switch or open-collector closure to ground. Five remote input terminals are provided; one for each digital audio source, and one to shut off all inputs. Installing a jumper from the **CTRL OFF** terminal to ground permits the RU-AEX4 to be controlled by equipment providing a continuous closure only when a source is to be switched on, such as an RDL RC4-RU wall-mount 4-button Remote Control, or OEM equipment. When a digital audio source is selected, the RU-AEX4 provides a 50 mA open-collector output to control other equipment or modules.

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-AEX4 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 AES/EBU signal selection is required, the RU-AEX4 is the ideal choice. Use the RU-AEX4 individually, or combine it with other RDL products as part of a complete audio/video system.

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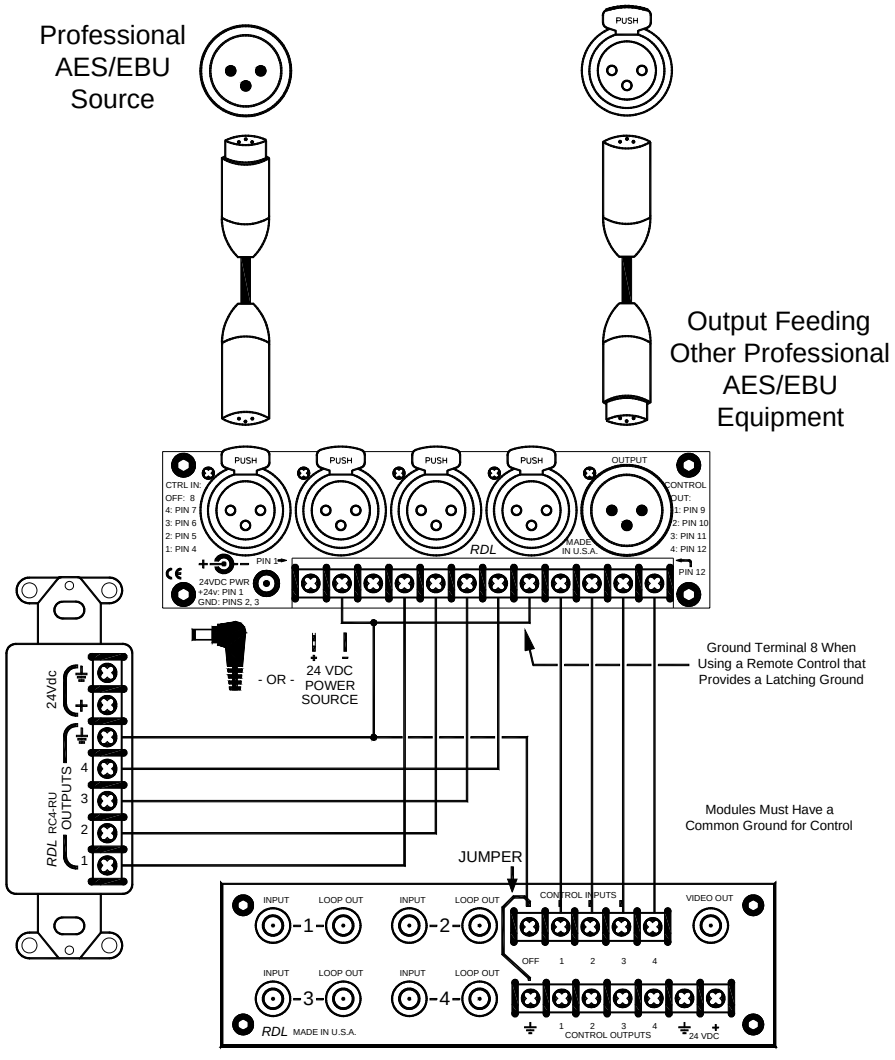
Installation/Operation

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

Inputs (4):	110 Ω AES/EBU XLR		
Output:	110 Ω AES/EBU XLR		
Sample Rate:	32 kHz – 96 kHz		
Resolution:	16 to 24 bits		
Indicators (6):	4 source LEDs (flashing when source selected and not locked; continuous when source selected and locked)		
	REMOTE/LOCAL LED		
	POWER LED		
Standards:	AES3-1992 Amendment 3-1999		
Power Requirement:	24 to 33 Vdc @ 120 mA, Ground-referenced		
Mounting:	Rack-mount using optional rack adapters such as RU-RA3; or operate freestanding		
Dimensions:	Height:	1.7 in	4.3 cm
	Length:	5.8 in	15.0 cm
	Depth:	4.1 in	10.4 cm

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