



RDL[®]
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

max **RACK-UP**[®] SERIES Model RU-SPD4 Digital Audio Distributor

ANYWHERE YOU NEED...

- SPDIF 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*
- Digital Signal **LOCK** Indication



You Need The RU-SPD4!

The RU-SPD4 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-SPD4 is the ideal choice in installations requiring high quality distribution of a digital SPDIF signal. A single SPDIF input is decoded, reclocked and retransmitted to four transformer-isolated, individually buffered, electrical SPDIF outputs and four corresponding optical outputs.

The RU-SPD4 features two electrical inputs (phono and BNC) and one optical input. The electrical inputs are 75 Ω terminated. Any one of the three input jacks may be used. Four distributed SPDIF outputs are available. Each output is available on a phono jack, BNC jack or optical connector. Separate buffer amplifiers and output transformers for each output provide isolation between electrical outputs. The RU-SPD4 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-SPD4 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-SPD4 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-SPD4 is the ideal choice. Use the RU-SPD4 individually, or combine it with other RDL products as part of a complete audio/video system.



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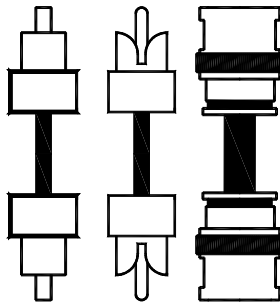
Installation/Operation



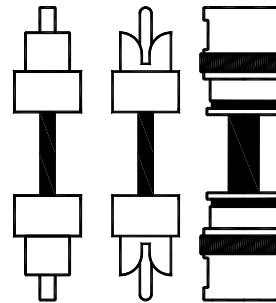
EN55103-1 E1-E5; EN55103-2 E1-E4
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.

Consumer SPDIF Source

Use only one of the available inputs at a time

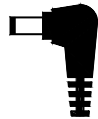
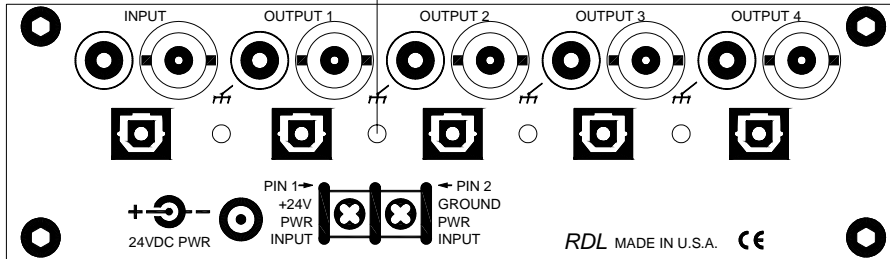


Install Screw (provided) to Ground Input Shields (recommended for RF suppression)



SPDIF Output to Other SPDIF Equipment

Use only one of the available output formats on a channel at a time



- OR -
24 VDC POWER SOURCE

TYPICAL PERFORMANCE

Input:	75 Ω SPDIF phono, BNC (transformer isolated), or optical
Outputs (4):	75 Ω SPDIF phono, BNC (transformer isolated), or optical
Sample Rate:	32 kHz to 96 kHz
Resolution:	16 to 24 bits
Indicators (2):	POWER LED and LOCK LED (LOCK indicates locked to a valid signal)
Standards:	IEC958, S/PDIF and EIAJCP340/1201
Power Requirement:	24 to 33 Vdc @ 160 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: 3.5 in 8.9 cm

Radio Design Labs Technical Support Centers

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