SONIFEX

Redbox RB-SP1
Digital Splitter and Combiner

Catalogue

Output



RB-SP1 Digital Splitter and Combiner

The RB-SP1 can be used for interfacing stereo and mono signals to digital mixing desks by splitting the left and right signals of a stereo XLR to two separate XLR's, and vice versa by combining them.

The RB-SP1 can interface between them, either combining the signals from 2 XLR's into 1, or splitting the signal from 1 XLR into 2.

The RB-SP1 (digital splitter & combiner) is also used to interface legacy double sampling pieces of equipment. Some older equipment uses 2 x AES/EBU connectors for double sampling with each connector carrying an

audio signal at a normal frame rate, whilst other equipment has a single connector using twice the frame rate.

Additionally, a sample rate converter on the second digital input can be used to convert the sample rate of the secondary input to that of the primary input. The RB-SP1 can handle sample rates up to 96kHz and sample sizes of 16, 20 and 24 bit.

There are two types of operation: Split 96, and Stereo/Mono. These each have three different switch modes: Split, Bypass and Combine. Download the product



Category: Digital Audio Converters.

Product Function: Splits a stereo digital

handbook for further information on what this product can do.

Both inputs and outputs can be selected as either AES/EBU or S/PDIF with the resultant digital level following the switch selection.

Specification For RB-SP1

Audio Specification

Input Impedance:	110Ω ±20% balanced (AES/EBU)
Input Impedance:	75Ω ±5% unbalanced (S/PDIF)
Signal Level:	3V/10V peak to peak min/max (AES/EBU) 0.5V ±20% peak to peak (S/PDIF)
Bit Depth:	Up to and including 24 bit
Distortion & Noise:	-114dB THD + N at 1kHz, ref 0dB FS
Output Impedance:	110Ω ±20% balanced (AES/EBU)

audio signal to mono and combines two mono signals to make a stereo signal.

Typical Applications: To combine two mono digital channels, e.g. telco, to a stereo input for a mixer.

Features: 2 x AES/EBU & S/PDIF I/O, up to 96kHz operation.

750 +5% unbalanced (S/PDIF)

Impedance:	7512 ±5% unbalanced (3/PDIF)
Sample Freq Range:	30-100kHz (i.e. including 32kHz, 44.1kHz, 48kHz, 64kHz, 88.2kHz and 96kHz)
Dynamic Range:	120dB
Connections	
Audio Inputs:	2 x AES/EBU XLR 3 pin female (balanced) 2 x S/PDIF RCA phono female (unbalanced) (Input button selects between AES/EBU and S/PDIF)
Audio Outputs:	2 x AES/EBU XLR 3 pin male (balanced) 2 x S/PDIF RCA phono female (unbalanced), (Output button selects between AES/EBU and S/PDIF)
Mains Input:	Filtered IEC, continuously rated 85-264VAC @ 47-63Hz, max 10W
Fuse Rating:	Anti-surge fuse 1A 20 x 5mm
Equipment Type	
RB-SP1:	Digital splitter & combiner
Physical Specifica	ation
Dimensions (Raw):	48cm (W) x 10.8cm (D) x 4.2cm (H) (1U) 19" (W) x 4.3" (D) x 1.7" (H) (1U)
Dimensions	58.5cm (W) x 22.5cm (D) x 7cm (H)

23" (W) x 8.9" (D) x 2.8" (H) Nett: 1.6kg Gross: 2.2kg

Nett: 3.5lbs Gross: 4.8lbs



(Boxed):

Weight



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SONIFEX

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