

SONIFEX

Redbox RB-SM1

Single Stereo to Mono Converter

Redbox RB-SM2

Dual Stereo to Mono Converter

2014-15

Catalogue





RB-SM1 Single Stereo To Mono Converter



Category: Stereo to Mono Converters.

Product Function: To create a mono output from a stereo source.

Typical Applications: To supply cue in broadcast environments, to make a mono feed for AM transmission, or to feed a mono PA system.

Features:

- Neutrik XLR connectors.
- Balanced audio but can be wired unbalanced.
- Output gain adjustment.

The RB-SM1 converts a stereo input to a fully buffered and balanced mono line output, e.g. to supply cue in broadcast environments or to feed a mono PA system.

The connections, which are on the rear panel, are of an XLR-3 type. The input is electronically balanced with an impedance of 20kΩ bridging. This can be wired unbalanced to accept an output from domestic equipment.

The output is electronically balanced with an output impedance of <50Ω. The output can be wired unbalanced by grounding the non-phase signal, allowing you to feed both balanced and unbalanced equipment.

Output gain adjustment using a pre-set potentiometer for the converter allows a normalised mono output from domestic stereo equipment. This potentiometer is accessible through the rear panel.

Specification For RB-SM1

Audio Specification

Maximum Input Level:	+28dBu
Maximum Output Level:	+28dBu
Input Impedance:	>20kΩ balanced bridging
Output Impedance:	<50Ω balanced
Frequency Response:	20Hz to 20kHz ±0.1dB (600Ω load, ref 1kHz)
Gain Range:	Adjust -8dB to +18dB gain, ref. 0dB input on L and R
Common Mode Rejection:	>66dB typically

Distortion:	0.01% THD @ 1kHz, ref +8dBu output
Noise:	-100dB, unity gain, ref +8dBu output
Connections	
Inputs:	2 x XLR 3 pin female (Balanced, can be unbalanced)
Output:	1 x XLR 3 pin male (Balanced, can be unbalanced)
Mains Input:	Filtered IEC, switchable 110-120V, or 220-240V, fused, 6W max
Fuse Rating:	Anti-surge fuse 100mA 20 x 5mm (230VAC) Anti-surge fuse 250mA 20 x 5mm (115VAC)
Equipment Type	
RB-SM1:	Single stereo to mono converter
Physical Specification	
Dimensions (Raw):	28cm (W) x 10.8cm (D) x 4.2cm (H) (1U) 11" (W) x 4.3" (D) x 1.7" (H) (1U)
Dimensions (Boxed):	36cm (W) x 20.5cm (D) x 6cm (H) 14.2" (W) x 8" (D) x 2.4" (H)
Weight:	Nett: 1.00kg Gross: 1.45kg Nett: 2.2lbs Gross: 3.2lbs



RB-SM2 Dual Stereo To Mono Converter



Category: Stereo to Mono Converters.

Product Function: To create two mono outputs from two stereo sources.

Typical Applications: To supply cue in broadcast environments, to make a mono feed for AM transmission, or to feed a mono PA system.

Features:

- Neutrik XLR connectors.
- Balanced audio but can be wired unbalanced.
- Output gain adjustment.

The RB-SM2 is a dual version of the RB-SM1, consisting of two independent converters which will produce two fully buffered and balanced mono line outputs from two stereo inputs.

All connections are on the rear panel. The XLR-3 inputs are electronically balanced with an impedance of 20kΩ bridging. These can be wired unbalanced to accept an output from domestic equipment.

The XLR-3 line outputs are electronically balanced with an output impedance of <50Ω. The outputs can be wired unbalanced

by grounding the non-phase signal, allowing you to feed both balanced and unbalanced equipment.

Output gain adjustment using pre-set potentiometers for both converters allows a normalised mono output from domestic stereo equipment. The potentiometers are accessible through the rear panel.

Specification For RB-SM2

Audio Specification	
Maximum Input Level:	+28dBu
Maximum Output Level:	+28dBu
Input Impedance:	>20kΩ balanced bridging
Output Impedance:	<50Ω balanced
Frequency Response:	20Hz to 20kHz ±0.1dB (600Ω load, ref 1kHz)

Gain Range:	Adjust -8dB to +18dB gain, ref. 0dB input on L and R
Common Mode Rejection:	>66dB typically
Distortion:	0.01% THD @ 1kHz, ref +8dBu output
Noise:	-100dB, unity gain, ref +8dBu output
Connections	
Inputs:	4 x XLR 3 pin female (Balanced, can be unbalanced)
Outputs:	2 x XLR 3 pin male (Balanced, can be unbalanced)
Mains Input:	Filtered IEC, switchable 110-120V, or 220-240V, fused, 6W max
Fuse Rating:	Anti-surge fuse 100mA 20 x 5mm (230VAC) Anti-surge fuse 250mA 20 x 5mm (115VAC)
Equipment Type	
RB-SM2:	Dual stereo to mono converter
Physical Specification	
Dimensions (Raw):	28cm (W) x 10.8cm (D) x 4.2cm (H) (1U) 11" (W) x 4.3" (D) x 1.7" (H) (1U)
Dimensions (Boxed):	36cm (W) x 20.5cm (D) x 6cm (H) 14.2" (W) x 8" (D) x 2.4" (H)
Weight:	Nett: 1.05kg Gross: 1.50kg Nett: 2.3lbs Gross: 3.3lbs



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