

AUDIO INTERFACES

Redbox - Digital - Audio Converters

RB-DAC1 Digital To Analogue Converter

Using 24 bit, 96kHz capable devices, the RB-DAC1 D/A Converter is a 1U rack-mount which produces a stereo balanced XLR or unbalanced phono output from an incoming AES/EBU or S/PDIF digital input signal. There is also a headphone output with volume control for monitoring purposes.

The analogue outputs have an output level control, allowing full-scale settings selectable from +12dBu, +18dBu or +24dBu. The RCA phono outputs have a further 8.5dBu attenuation incorporated.

There is a button to select either the AES/EBU or S/PDIF input for the D/A converter, which is located on the rear panel. Additionally, if de-emphasis is selected, the RB-DAC1 will decode 50/15µs emphasis when indicated by certain channel status bits in the incoming digital audio data.

When operating, the front panel power LED flashes whenever the unit is not synchronised to the incoming digital signal.

Audio Specification For RB-DAC1

Maximum Output Level:	+24dBu balanced, +14dBu unbalanced +12dBu headphone
Output Impedance:	<50 balanced, <75 unbalanced
Dynamic Range:	>100dB
Gain Range:	Selectable 12dBu, 18dBu or 24dBu output level, ref FSD
Headphone Output:	Drives 150mW into 32 to 600 professional headphones
Distortion & Noise:	<0.01% THD + N @1kHz, ref 0dBu
Sample Freq. Range:	30kHz - 100kHz

Operational Controls

Digital Input Select:	AES/EBU or S/PDIF, via push-button
Gain Select:	DIP switch
De-emphasis On/O :	DIP switch

Connections

Digital Inputs:	1 x AES/EBU XLR 3 pin female 1 x S/PDIF RCA phono
Analogue Outputs:	2 x XLR 3 pin male (balanced) 2 x RCA phono (unbalanced)
Headphone Output:	1 x ¼" (6.35mm) A/B-gauge 3-pole stereo jack sockets
Mains Input:	Filtered IEC, 110V-120V, or 220-240V, fused, 10W max
Fuse Rating:	Anti-surge fuse 100mA 20 x 5mm (230VAC) Anti-surge fuse 250mA 20 x 5mm (115VAC)

Equipment Type

RB-DAC1:	Digital to analogue converter
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Physical Specification

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 (Boxed):	53cm (W) x 20.5cm (D) x 6cm (H) 21" (W) x 8" (D) x 2.4" (H)
Weight:	Nett: 1.4kg Gross: 2.0kg Nett: 3.1lbs Gross: 4.4lbs



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