

SONIFEX

Manufacturers of Audio & Video
Products For Radio & TV Broadcasters

Redbox RB-DA6R
& RB-DA6RG
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AUDIO & VIDEO INTERFACES

Redbox - Audio Distribution Amplifiers

RB-DA6R

6 Way Stereo Distribution Amplifier With RJ45 Connectors

StudioHub+[®] RK3

The RB-DA6R is a 1U rack-mount high performance 6 way stereo distribution amplifier for splitting a source into a number of different outputs. The amplifier provides multiple balanced audio outputs using RJ45 connectors wired to the StudioHub+™ standard*.

By using RJ45 outputs, it allows simpler CAT5 cabling to be used to connect the amplifier to other products.

The RB-DA6R has one stereo input which is switchable via a rear panel push switch between paralleled balanced inputs (2 x XLR sockets or 1 x stereo input on RJ45) and unbalanced inputs (1 pair of stereo phono sockets).

The unit has 6 stereo outputs on 6 x RJ45 connectors. The unit can also be configured so that 1 mono input can be distributed to 12 outputs by use of a switch which is recessed on the front panel to prevent it being accidentally knocked.

The inputs and outputs are electronically

balanced and can be wired unbalanced. Each output is individually buffered so that a short circuit on one output won't affect the others. The left and right input gain controls (normalising) are pre-set potentiometers accessible through the front panel.

The output gain may be varied from -8dB to 18dB which is useful for normalising consumer and professional signals to give outputs of -15dBu and 0dBu respectively.

Audio Specification For RB-DA6R

Maximum Input Level:	+28dBu
Maximum Output Level:	+28dBu
Frequency Response:	20Hz to 20kHz ±0.1dB (600Ω load, ref 1kHz)
Gain Range:	Adjustable 8dB loss to 18dB gain (L & R adjust)
Common Mode Rejection:	>66dB typically
Input impedance:	>20kΩ bridging (balanced) >10kΩ (unbalanced)
Output impedance:	<50Ω

Distortion:	0.01% THD @ 1kHz, ref +8dBu output
Noise:	-100dB unity gain, ref +8dBu output

Connections

Inputs:	2 x XLR 3 pin female, 1 x RJ45 socket (balanced) 2 x phono sockets (unbalanced)
Outputs:	6 x RJ45 sockets (all 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-DA6R:	6 way stereo distribution amplifier with RJ45 connectors
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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: 1.3kg Gross: 1.9kg Nett: 2.9lbs Gross: 4.2lbs

Accessories

RB-RK3:	1U Rear panel rack kit for large Redboxes
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RB-DA6RG

6 Way Stereo Distribution Amplifier With RJ45 Connectors & Output Gain Control

StudioHub+[®] RK3

The RB-DA6RG is a 1U rack-mount high performance 6 way stereo distribution amplifier for splitting a source into a number of different outputs. It is identical

* StudioHub+™ is a registered trademark of Radio Systems Inc

to the RB-DA6R with the addition of individual output gain adjustment, instead of global stereo gain adjustment.

Audio Specification For RB-DA6RG

As per RB-DA6R with the following difference:	
Gain Range:	Adjustable 8dB loss to 18dB gain (12 adjustable pots)

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