

# SONIFEX

Redbox RB-DDA6A, RB-DDA6A-2P,  
RB-DDA6A3, RB-DDA6S, RB-DDA6W

2014-15  
Catalogue





## RB-DDA6A 6 Way Stereo AES/EBU Digital Distribution Amplifier



**Category:** Audio Distribution Amplifiers.

**Product Function:** 1 input, 6 output AES/EBU digital audio distribution amplifier.

**Typical Applications:** Distribution of audio from a digital mixing desk to multiple digital recorders, or feeding multiple studios with an output from a flashcard player.

**Features:** Neutrik XLR input and output connectors, sample rates up to 96kHz.

The RB-DDA6A digital distribution amplifier is used for distributing digital audio data in AES/EBU format, repeating both the audio data and the status information of the input whilst re-normalising to standard digital audio levels.

It has a single XLR-3 female AES/EBU audio input which is distributed to 6 XLR-3 male AES/EBU outputs.

Applications include distributing audio from a digital mixing desk to multiple digital recorders, or feeding multiple studios with an output from a flashcard player.

It can accept input sample rates in the range of 30kHz - 100kHz, and bit rates of 16, 20 and

24 bit. So, it can be used for standard CD signal distribution at 16 bit 44.1kHz, as well as for high quality 24 bit 96kHz recording.

### Specification For RB-DDA6A

#### Audio Specification

Input Impedance:	110Ω ±20% balanced
Output Impedance:	110Ω ±20% balanced
Sample Freq Range:	30-100kHz (i.e. including 32kHz, 44.1kHz, 48kHz, 64kHz, 88.2kHz & 96kHz)
Signal Level:	2V/7V peak to peak min/max
<b>Connections</b>	
Input:	1 x AES/EBU XLR 3 pin female (Balanced)
Outputs:	6 x AES/EBU XLR 3 pin male (Balanced)
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)
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#### Equipment Type

RB-DDA6A:	6 way stereo AES/EBU digital distribution amplifier
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#### 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: 0.95kg Gross: 1.4kg Nett: 2.1lbs Gross: 3.2lbs



## RB-DDA6A-2P 6 Way Stereo AES/EBU Digital Distribution Amplifier with Dual Power Supplies

The RB-DDA6A-2P digital distribution amplifier is used for distributing digital audio data in AES/EBU format, repeating both the audio data and the status information of the input whilst re-normalising to standard digital audio levels.

It has a single XLR-3 female AES/EBU audio input which is distributed to 6 XLR-3 male AES/EBU outputs.

Applications include distributing audio from a digital mixing desk to multiple digital

recorders, or feeding multiple studios with an output from a flashcard player.

It can accept input sample rates in the range of 30kHz - 100kHz, and bit rates of 16, 20 and 24 bit. So, it can be used for standard CD signal distribution at 16 bit 44.1kHz, as well as for high quality 24 bit 96kHz recording.

The unit provides redundancy protection by using two power supply units that can be supplied from separate mains feeds. The

unit automatically load shares between the two supplies so that if either supply should fail the unit will continue to work correctly. If both supplies fail the input is connected directly to output 1.

The condition of the two supplies is indicated on the front panel by two red LEDs which illuminate to indicate the correct function of the supply. On the alarm output connector there is a changeover relay to indicate the status of each supply. This is normally closed to indicate power fail and once the supply is working correctly the relay activates to make a normally open contact.

### Specification For RB-DDA6A-2P

Audio Specification	
Input Impedance:	110Ω ±20% balanced
Output Impedance:	110Ω ±20% balanced
Sample Freq Range:	30-100kHz (i.e. including 32kHz, 44.1kHz, 48kHz, 64kHz, 88.2kHz and 96kHz)
Signal Level:	2V/7V peak to peak min/max
Connections	
Audio Inputs:	1 x AES/EBU XLR 3 pin female (balanced)
Audio Outputs:	6 x AES/EBU XLR 3 pin male (balanced)
Alarm Outouts:	2 x Relay output indicators on 1 x 9 pin D-Type socket
Mains Input:	2 x Filtered IEC, 85-264V switchable, fused, 6W max
Fuse Rating:	2 x Anti-surge fuse 1A 20 x 5mm
Equipment Type	
RB-DDA6A-2P:	6 way AES/EBU stereo digital distribution amplifier with dual power supplies
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):	58.5cm (W) x 22.5cm (D) x 7cm (H) 23" (W) x 8.9" (D) x 2.8" (H)
Weight:	Nett: 1.5kg Gross: 2.0kg Nett: 3.3lbs Gross: 4.4lbs





## RB-DDA6A3 6 Way Stereo AES3ID Digital Audio Distribution Amplifier



24<sup>BIT</sup>  
96<sup>kHz</sup>



**Category:** Audio Distribution Amplifiers.

**Product Function:** 1 input, 6 output AES3id digital audio distribution amplifier.

**Typical Applications:** Distribution of audio from a BluRay player to recorders, or feeding multiple studios with an output from a master clock.

**Features:** Fully buffered outputs, sample rates up to 96kHz.

The RB-DDA6A3 digital distribution amplifier is used for distributing AES3id digital audio, repeating both the audio data and the status information of the input whilst re-normalising to standard digital audio levels. It has a single BNC AES3id audio input which is distributed to 6 BNC AES3id audio outputs.

Applications include distributing audio from a BluRay player to recorders, or feeding multiple studios with an output from a master clock.

It can accept input sample rates in the range of 30kHz - 100kHz, and bit rates of 16, 20 and 24 bit.

### Specification For RB-DDA6A3

#### Technical Specification

##### Audio Specification

Input impedance:	75Ω
Output impedance:	75Ω
Sample Freq Range:	30-100kHz (i.e. including 32kHz, 44.1kHz, 48kHz, 64kHz, 88.2kHz & 96kHz)
Signal Level:	1V ±20% peak to peak (output 1.17V to drive long cable lengths)

##### Connections

Inputs:	1 x BNC female
Outputs:	6 x BNC female
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-DDA6A3:	6 way stereo AES3ID digital audio distribution amplifier
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#### 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: 0.95kg    Gross: 1.4kg Nett: 2.1lbs    Gross: 3.2lbs



## RB-DDA6S 6 Way Stereo S/PDIF Digital Distribution Amplifier



**Category:** Audio Distribution Amplifiers.

**Product Function:** 1 input, 6 output S/PDIF digital audio distribution amplifier.

**Typical Applications:** Audio distribution at 16 bit 44.1kHz from a consumer CD player to multiple digital recorders, distribution of high quality 24 bit 96kHz signals from digital mixing desks to recorders and connection of the output of, say, a BluRay player to multiple studios.

**Features:** Fully buffered outputs, sample rates up to 96kHz.



The RB-DDA6S digital distribution amplifier is similar to the RB-DDA6A except that it is used for distributing digital audio data in S/PDIF format.

It has a single S/PDIF audio input which is distributed to 6 x S/PDIF audio outputs at the same level and condition as the input signal. It can accept input sample rates in the range of 30kHz - 100kHz, and bit rates of 16, 20 and 24 bit.

Uses include audio distribution at 16 bit 44.1kHz from a consumer CD player to multiple digital recorders, distribution of high quality 24 bit 96kHz signals from digital mixing desks to recorders and connection of the output of, say, a BluRay player to multiple studios.

### Specification For RB-DDA6S

Audio Specification	
Input Impedance:	75Ω ±5% unbalanced
Output Impedance:	75Ω ±5% unbalanced
Sample Freq. Range:	30-100kHz (i.e. including 32kHz, 44.1kHz, 48kHz, 64kHz, 88.2kHz & 96kHz)
Signal Level:	Balanced min 0.5V ±20% peak to peak
Connections	
Input:	1 x S/PDIF RCA phono (unbalanced)
Outputs:	6 x S/PDIF RCA phono (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-DDA6S:	6 way stereo S/PDIF digital distribution amplifier
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: 0.9kg Gross: 1.35kg Nett: 2lbs Gross: 3lbs



## RB-DDA6W 6 Way Word Clock Distribution Amplifier



**Category:** Audio Distribution Amplifiers.

**Product Function:** 1 input, 6 output TTL word clock distribution amplifier.

**Typical Applications:** Distribution of word clock signal from a master generator to other studio equipment to keep them synchronised.

**Features:** Fully buffered outputs.

The RB-DDA6W word clock distribution amplifier distributes a word clock BNC input signal to 6 word clock BNC outputs re-conditioned. It is used to distribute reference clocks for digital audio systems.

It has a single female BNC audio input which is distributed to 6 female BNC outputs.

The units primary application is to distribute a master TTL word clock source to multiple pieces of equipment that need to be synchronised from the master.

### Specification For RB-DDA6W

#### Audio Specification

Input Impedance: 75Ω

Output Impedance: <50Ω

Mains Input: Filtered IEC, switchable 110-120V, or 220-240V, fused, 6W max

#### Connections

Input: 1 x BNC female

Outputs: 6 x BNC female

Fuse Rating: Anti-surge fuse 100mA 20 x 5mm (230VAC)  
Anti-surge fuse 250mA 20 x 5mm (115VAC)

#### Equipment Type

RB-DDA6W: 6 way word clock distribution amplifier

#### 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: 0.9kg Gross: 1.35kg  
Nett: 2lbs Gross: 3lbs

# **SONIFEX**

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