

**RB-DHD6 Digital 6 Way Stereo Headphone Distribution Amplifier**

*// A 1U rack-mount which receives a digital input signal, as either AES/EBU or S/PDIF and converts it to 6 individually buffered, jack-plug, headphone outputs, each with their own volume control. //*

The RB-DHD6 digital 6 way headphone distribution amplifier is a 1U rack-mount which receives a digital input signal, as either AES/EBU or S/PDIF and converts it to 6 individually buffered, jack-plug, headphone outputs, each with their own volume control.

Useful for connection to digital mixing desks, digital routers and matrices, the RB-DHD6 connects directly to an AES/EBU or S/PDIF output to provide the highest quality audio directly to the headphones.

The input connectors consist of a single balanced XLR-3 for the AES/EBU input and a

single unbalanced phono connector for the S/PDIF input.

A button located on the rear panel is used to select either the AES/EBU, or S/PDIF, input and de-emphasis on the output can be controlled via dipswitch. If de-emphasis is selected, the RB-DHD6 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 red and amber whenever the unit is not synchronised to the incoming digital signal.

**Audio Specification For RB-DHD6**

Output Level: Drives 150mW into 32Ω to 600Ω headphones

Dynamic Range: >100dB

Input Impedance: 110Ω ±20% AES/EBU  
75Ω ±15% S/PDIF

Maximum Output Level: +12dBu unbalanced

Headphone Gain Range: -80dBu to +12dBu

Sample Frequency Range: 30kHz-100kHz

**Connections**

Digital Inputs: 1 x AES/EBU XLR 3 pin female,  
1 x S/PDIF RCA phono

Headphone Outputs: 6 x ¼" (6.35mm) A/B-gauge 3-pole stereo jack sockets

Mains Input: Filtered IEC, 110V-120V, or 220-240V, fused, 10W max

**Operational Controls**

De-emphasis On/Off: DIP switch selection

Digital Input Select: AES/EBU or S/PDIF, via push-switch

**Equipment Type**

RB-DHD6: Digital 6 way stereo headphone distribution amplifier

**Physical Specification**

Weight: Nett: 1.6kg Gross: 2.2kg

Dimensions (Raw): 48cm (W) x 10.8cm (D) x 4.2cm (H) (1U)  
(Boxed): 53cm (W) x 20.5cm (D) x 6cm (H)



**Redbox - Headphone Distribution Amplifiers**