

Specification

Balanced input	
Type	Transformer coupled
Standard	110Ω AES3-2003
Connector	9 way D type socket
Return loss	>40dB (0.1 to 6MHz)
Signal level	2-7V p-p
Max cable length	>250m
Sample Rate	32 – 192 kHz
Balanced outputs	
Number	Four transformer coupled
Standard	110Ω AES3-2003
Connector	9 way D type socket
Return loss	>32dB (0.1 to 6MHz)
Signal level	2-7V p-p
Unbalanced output	
Number	One
Standard	75Ω AES3-id (SMPTE 276M)
Connector	BNC
Return loss	>32dB (0.1 to 6MHz)
Level	1V p-p ±10%
Power	
Voltage	6-12V DC
Current	150mA at 6V
Power connector	Locking 2.5mm jack connector (centre +ve)
Other	
LED	Green for AES lock, red AES out-of lock
Temperature range	0°C to 40°C
Dimensions	63.5mm x 80mm x 30mm (excluding connectors)
Weight	250g
<i>We reserve the right to change technical specifications without prior notice. E.&OE.</i>	

User Guide



4600B Balanced AES-EBU audio DA

Provides four balanced and one unbalanced outputs

www.miniblox.com

DTL MiniBlox™ - solutions in a box

General description

The 4600B balanced AES-EBU audio DA accepts and automatically equalises one balanced input and provides four balanced outputs and one unbalanced output.

It is housed in an extremely compact and rugged aluminium case ideally suited to both studio and portable applications.

Main features

- Balanced AES3 110Ω input
- Four balanced AES3 110Ω outputs
- One unbalanced AES3-id 75Ω output
- Automatically equalises over 250m of audio cable
- Supports data rates from 32 to 192kHz
- Transformer coupling on input and outputs for good common mode and isolation performance
- Compact and rugged design
- Locking connector for PSU

Installation and operation

The unit is simple to use and install.

- Connect balanced input to a 9 way D type plug (not supplied) per the table on the rear of the unit (and as detailed in the next section).
- Connect balanced outputs to a 9 way D type plug (not supplied) per the table on the rear of the unit (and as detailed in the next section).
- Plug the D type into the socket on the unit and secure.
- Connect the unbalanced output to the BNC socket detailed on the front of the unit (if required).
- Apply power to the unit either via the locking power connector from the external power supply or 1U rack frame, or by sliding into the 2U rack mounting frame with central power supplies.
- The LED then shows green when the AES is locked or red if out-of-lock.
- The mounting bracket supplied can be used to install the unit. The bracket should first be fixed vertically to any surface. The MiniBlox can then be lowered onto the dovetail part of the bracket with the front endplate uppermost to retain it.

D type pin connections

Connections to a 9 way D type plug (not supplied) should be made as follows:

IN		OUT	
1 AES -	6 AES +	1 AES1 -	6 AES1 +
2 NC	7 NC	2 AES2 -	7 AES2 +
3 NC	8 NC	3 AES3 -	8 AES3 +
4 NC	9 NC	4 AES4 -	9 AES4 +
5 Ground		5 Ground	

EU declaration of conformity

We certify that this apparatus conforms to the requirements of the EMC and Low Voltage Directives. Emissions EN55103-1, susceptibility EN55103-2 and safety EN60950-1 2002.

15 July 2005



Warranty

DTL Broadcast Ltd warrants this unit against defects in materials and workmanship for a period of one year from the date of shipment. At its option, the company will repair or replace products that prove to be defective during the warranty period, provided they are returned to the company with advance notification and with freight prepaid. Repairs may only be conducted by an authorised representative of the company. As a result any unauthorised repair or attempted repair will automatically void the warranty.

When a distributor supplies the company's products, that distributor should be approached initially if there are any warranty problems.

The company makes no other warranties, express or implied, as to the merchantability, fitness for a particular purpose, or otherwise. The company's liability for any cause, including breach of contract, breach of warranty, or negligence, with respect to products sold by it, is limited to repair or replacement by the company, at its sole discretion. This remedy is exclusive. In no event shall the company be liable for any incidental or consequential damages, including loss of profits.