

Specification

SDI input	
Standards	SMPTE 259M 270Mb/s 525/625 SDI
Connector	75Ω BNC
Signal level	800mV p-p ±10% (terminated)
Return loss	>15dB to 270MHz
Cable equalisation	> 350m automatic (Belden 8281)
SDI output	
Standards	SMPTE 259M 270Mb/s 525/625 SDI
Connector	75Ω BNC
Signal level	800mV p-p ±10% (terminated)
DC offset	±100mV
Return loss	>18dB to 270MHz
AES-EBU output	
Standard	Balanced AES-EBU AES3-2003
Number	2
Type	Transformer coupled
Connector	Removable screw terminal
Termination	Balanced 110Ω
Level	3.5 V p-p ± 5%
Sample rate	48kHz (synchronised to video)
Audio de-embedding	
Standard	SMPTE 272M
Resolution	20 or 24 bit
Power	
Voltage	6-12V DC
Current	520mA at 6V
Power connector	Locking 2.5mm jack connector (centre +ve)
Other	
LEDs	Show power, signal presence & de-embedding status
Temperature range	0°C to 40°C
Dimensions	63.5mm x 84mm x 30mm (excluding connectors)
Weight	175g
<i>We reserve the right to change technical specifications without prior notice. E&OE.</i>	



User Guide



4462DB SDI balanced AES-EBU audio de-embedder

Extracts two balanced AES-EBU digital audio streams from any group within a 270Mb/s 525/625 SDI signal

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DTL MiniBlox™ - solutions in a box

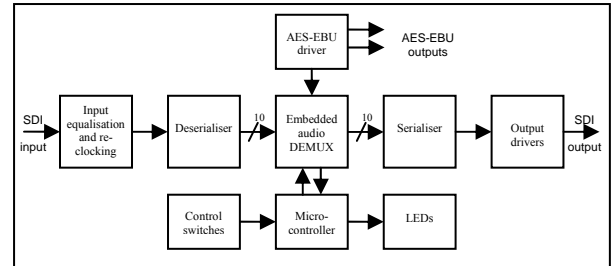
General description

The 4462DB SDI balanced AES-EBU audio de-embedder extracts two digital stereo audio streams from any group in the ancillary data space of a 270Mb SDI stream. De-embedding conforms to SMPTE 272M and allows audio to be extracted from any of the four groups. There is automatic cable equalisation and a re-clocked SDI output is provided.

Main features

- Extracts two balanced AES-EBU streams from any group
- Automatic detection of 525/625 SDI
- LEDs show group status and input signal presence
- Automatic input cable equalisation to over 350m
- Re-clocked SDI output
- Extremely compact and rugged

Functional block diagram



Installation and operation

The unit is simple to use and install.

- Set the dipswitches by referring to the table and description below or the table on the rear of the unit.
- Connect a valid 270Mb/s SDI input.
- Connect SDI and AES-EBU outputs.
- 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.
- On power-up the unit will perform a short (3 second) self test. The group LEDs will flash while this is in progress.
- The signal LED will be green when there is power and a valid 270Mb/s SDI signal present or red when there is power but no SDI signal.
- One of the group LEDs will light corresponding to the group selected by the switches. This LED will be green if the unit is receiving a valid video signal and successfully de-embedding audio. The LED will otherwise be red.
- The switch settings can be altered whilst the unit is powered and the changes are implemented immediately.
- 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.

Switch settings

Switch	1	2
Group 1	OFF	OFF
Group 2	OFF	ON
Group 3	ON	OFF
Group 4	ON	ON
Switches 3 - 6 not used		

Switches 1 & 2 set the group from which audio packets are extracted.

Switches 3 to 6 are not used.

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.