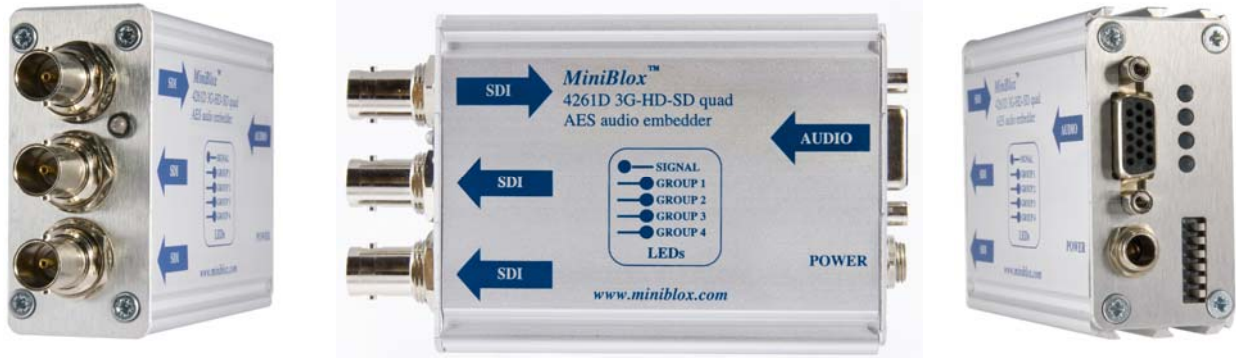


# DTL MiniBlox™

## 4261D 3G-HD-SD quad AES audio embedder

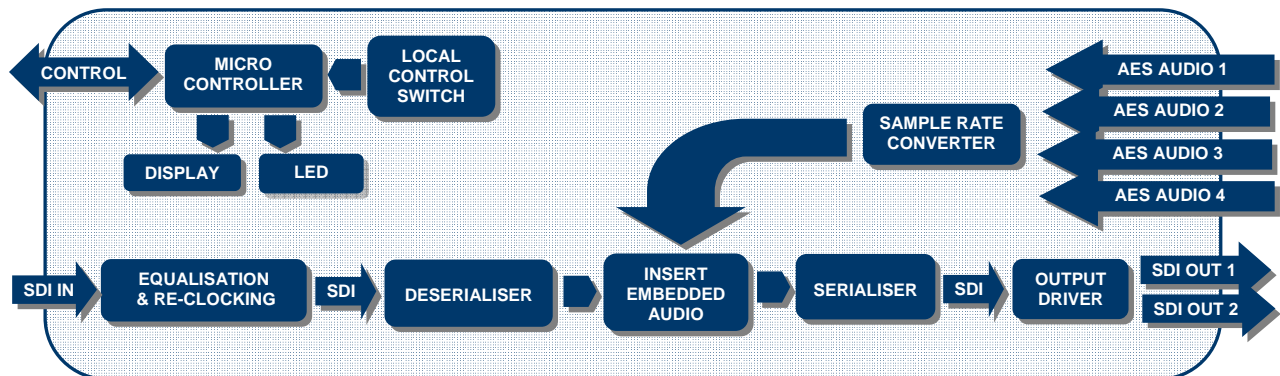


### Description

The 4261D 3G-HD-SD quad AES audio embedder inserts four balanced AES audio streams (8 audio channels) into the ancillary data space of an SDI signal. Audio can be inserted into any two embedded audio groups. AES inputs can be sample rate converted to a 48kHz rate synchronised to the video. Conversion may be bypassed for compatibility with Dolby® streams. Two units can be cascaded to enable embedding into all four available groups (16 audio channels).

The unit automatically detects whether the SDI input is 3G, HD or 270Mb/s SD SDI. There is automatic input cable equalisation and two re-clocked SDI outputs are provided.

The unit requires an external power supply or a rack mounting frame. A 1RU frame is available which takes up to 5 units and a 2U one that takes up to 14. XLR audio breakout cables and external power supplies are also available. Adaptors are available to convert unbalanced audio inputs on BNCs to balanced ones on XLRs.



### Key features

- Automatic 3G, HD, or SD SDI standard detection
- Inserts four balanced AES audio streams into any two groups
- Internal sample rate converters for 48kHz AES synchronous with video input
- LEDs show group status and input signal presence
- Automatic input cable equalisation
- 2 re-clocked SDI outputs
- Compact and rugged design
- Optional XLR breakout cable (BNC to XLR adaptors available for unbalanced AES inputs)
- Optional external power supply
- Optional rack mounting frames with central power supplies

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### Specifications

#### Video input

3G	SMPTE 424M & 425M-AB (2.97 & 2.967Gb/s) 1080p50/59.94/60
HD	SMPTE 292M (1.485 & 1.435Gb/s) 1080i 60/59.94/50 1080p/psf 30/29.97/25/24/23.98 720p 60/59.94/50/30/29.97/25/24/23.98
SD	SMPTE 259M-C (270Mb/s) 625i 50 525i 59.94
Number	1
Connector	75Ω BNC
Return loss	>15dB to 1.485GHz >10dB 1.5 to 2.97GHz
Cable equalisation	3G 140m, HD 230m, SD 250m (Belden 1694A)

#### Video outputs

Standards	As input
Format	As input
Number	2
Connectors	75Ω BNCs
Jitter	<0.20ui peak-to-peak
Return loss	>15dB to 1.485GHz >10dB 1.5 to 2.97GHz

#### Embedding

Standards	SMPTE 299M & 272M-C
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#### Audio inputs

Inputs	Balanced AES
Number	4
Connector	Female 15pin sub-D (optional XLR breakout cable)
Type	Transformer coupled
Sample rate	32-96kHz
Sample rate conversion	AES converted to 48kHz synchronous with video (selected by dipswitch)
Standard	AES3
Impedance	110Ω
Input level	3.5v p-p ±5%
Breakout cable (optional)	4 female XLRs

#### Electrical

Voltage	6-12VDC
Power	<3W
Connector	Locking 2.5mm jack (centre +ve)
Safety	EN60950
<b>Control</b>	
Setup	6 way dipswitch
LEDs	Power, input presence & group status
<b>Other</b>	
Size (mm)	63.5 x 84 x 30 plus connectors
Weight	175g
Temperature	5°C to 40°C
Humidity	80% max (non condensing)

#### Options

5CA15SD-X05	Audio cable HD15M to 4F XLRs
4006	Desktop power supply with IEC inlet
NADITBNC-F	Female XLR to BNC adaptor for unbalanced AES input
4010	1U rack mounting frame for up to 5 units including PSU
4020	2U rack mounting frame for up to 14 units & single or dual PSUs
4021	Power supply for 4020 2U frame