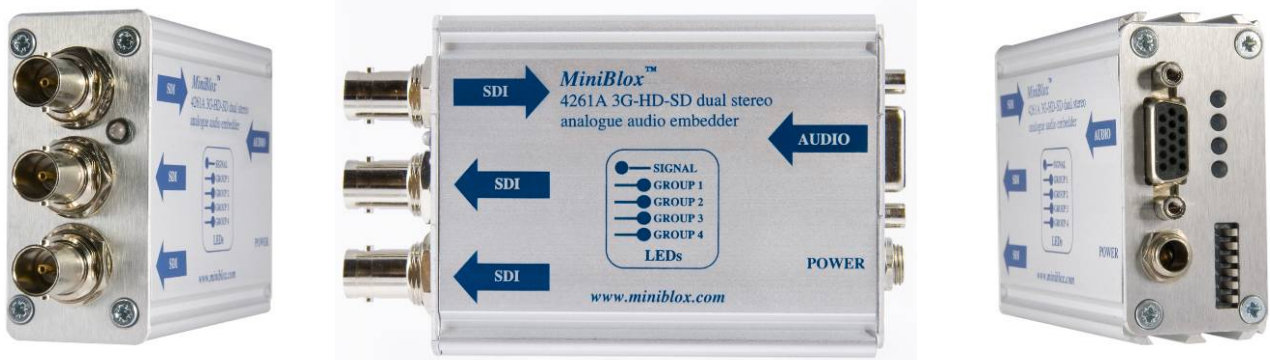


# DTL MiniBlox™

## 4261A 3G-HD-SD dual stereo analogue audio embedder

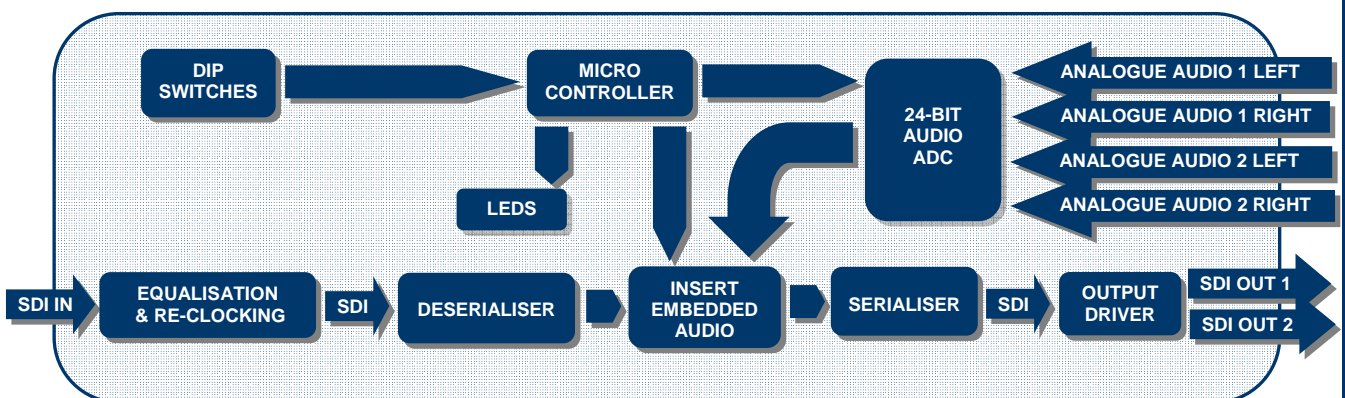


### Description

The 4261A 3G-HD-SD analogue audio embedder inserts two balanced stereo analogue audio pairs into any group in the ancillary data space of an SDI signal.

The unit automatically detects whether the SDI input is 3G, HD or 270Mb/s SD SDI. Audio conversion employs high quality 24-bit DACs. Adjustable full scale input levels meet all international standards. There is automatic input cable equalisation and two re-clocked SDI outputs are provided. Units can be cascaded to enable embedding into all four available groups.

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. Audio XLR breakout cables and external power supplies are also available.



### Key features

- Automatic 3G, HD, or SD SDI standard detection
- Inserts two balanced analogue audio stereo pairs into any group
  - Replaces or adds to existing audio
  - High quality 24 bit audio ADC
- Adjustable full scale input levels to meet all international standards
- 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
- Optional external power supply
- Optional rack mounting frames with central power supplies

### 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 analogue audio
Number	2 stereo pairs
Connector	Female 15pin sub-D (optional XLR breakout cable)
Impedance	>20kΩ
Input level	Adjustable 0dBFS = +12 to +26dBu
Maximum level	+24dBu
Quantisation	24 bit
Noise floor	<-90dB (A weighted)
Distortion	<0.002% (20Hz-20KHz)
Frequency response	+/-0.2dB (20Hz-20KHz)
Crosstalk	<-90dB (20Hz-20KHz)

### Electrical

Voltage	6-12VDC
Power	<3W
Connector	Locking 2.5mm jack (centre +ve)
Safety	EN60950
<b>Control</b>	
Setup	6 way dip switch
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
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