

# DTL MiniBlox<sup>TM</sup>

## 4432+ Universal analogue to SDI ADC



### Description

The 4432+ is a broadcast quality universal analogue to SDI converter.

It uses dual 11 bit over sampling ADC's with 5 line adaptive comb filtering. Temporal noise reduction and 3D motion adaptive YC separation offer the highest quality conversion on the market. The unit accepts composite, YUV, RGB or YC analogue inputs. It automatically selects different types of PAL, NTSC and SECAM.

The unit is housed in an extremely compact and rugged aluminium case and is suitable for both field and studio applications.

### Features

- Universal analogue to SDI ADC
- Dual high speed oversampling 11-bit ADC's
- Digital TBC and jitter filter for greater output stability
- Temporal frame recursive noise reduction
- Motion adaptive 3D YC separation using a 5 line comb filter
- Automatic gain control
- Differential inputs to eliminate common mode 'hum' up to 6Vp-p
- Extremely compact and rugged

### Control switches

- Pedestal control
- VBI blanking
- Disable AGC
- Disable jitter filter
- Enable noise reduction
- Enable motion adaptive YC separation

[www.miniblox.com](http://www.miniblox.com)

### Specifications

#### Analogue input

Standards	Composite, YC, RGB & YUV component 525 or 625
Composite	PAL, NTSC & SECAM
Connectors	Three 75Ω BNCs
Signal level	1V p-p nominal
Return loss	>40dB to 5.5MHz
CMR	>6Vp-p

#### SDI output

Standards	SMPTE 259M 270Mb/s 525/625 SDI
Connector	75Ω BNC
Number	2
Signal level	800mV p-p ±10% (terminated)
Jitter	<0.15UI with colour bars input
Return loss	>18dB to 270MHz

#### Performance

Differential gain	<1.5%
Differential phase	<0.4°

#### Power

Voltage	6-12V DC
Current	600mA at 6V
Power connector	Locking 2.5mm jack connector (centre +ve)

#### Other

LED	Shows power and signal
Temperature range	0°C to 40°C
Dimensions	63.5mm x 84mm x 30mm (excluding connectors)
Weight	185g

### Ordering information

4432+	Universal analogue to SDI ADC	4006	Desktop power supply with IEC320 C14 inlet
4010	1U rack mounting frame for up to 5 units including PSU		

We reserve the right to change technical specifications without prior notice. E&OE.

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