











# MiniBlox™







## April 2009 Catalog

**MiniBlox™** - solutions in the palm of your hand - an expanding range of conversion & distribution products at competitive prices. These high quality units, in extremely compact & rugged aluminum cases, are ideally suited to both portable and studio applications. They can be used individually with their own external power supply. Alternatively up to 5 of the 4000 series can be housed in the 1RU rack mounting frame with a single power supply or up to 14 of the 4000 series in the 2RU rack mounting frame with a central power supply (optional dual power supplies).

MiniBlox™ 8-bit monitoring quality SDI to analog video converters	
	<b>4410 SDI DAC composite</b> 270Mb/s 525/625 SDI input with monitoring multi-standard NTSC/PAL composite analog output.
	<b>4411 SDI DAC component</b> 270Mb/s 525/625 SDI input with monitoring RGB/YUV analog output.
	<b>4412 SDI DAC universal</b> 270Mb/s 525/625 SDI input with monitoring multi-standard NTSC/PAL composite, RGB(S), YUV, or YC analog outputs.
MiniBlox™ 10-bit broadcast quality SDI to analog video converters	
	<b>4420 SDI DAC composite</b> 270Mb/s 525/625 SDI input with broadcast quality multi-standard NTSC/PAL composite analog output
	<b>4421 SDI DAC component</b> 270Mb/s 525/625 SDI input with broadcast quality RGB/Beta/MII/YUV analog output.
	<b>4422 SDI DAC universal</b> 270Mb/s 525/625 SDI input with broadcast quality multi-standard NTSC/PAL composite, YUV, Beta, MII, RGB(S) component or YC analog output.
	<b>4424 SDI DAC composite</b> 270Mb/s 525/625 SDI input with broadcast quality multi-standard NTSC/PAL composite analog output, plus re-clocked SDI output and automatic 525/625 line detection.

	<p><b>4425 SDI DAC component</b> 270Mb/s 525/625 SDI input with broadcast quality RGB/Beta/MII/YUV analog output, plus re-clocked SDI output and automatic 525/625 line detection.</p>
	<p><b>4426 SDI DAC universal</b> 270Mb/s 525/625 SDI input with broadcast quality multi-standard NTSC/PAL composite, YUV, Beta, MII, RGB(S) component or YC analog output, plus re-clocked SDI output and automatic 525/625 line detection.</p>
	<p><b>4464A SDI to composite analog converter</b> Includes an analog audio de-embedder. The unit accepts an SDI signal and outputs NTSC/PAL composite video and balanced stereo analog audio. <i>Note: This unit gets a little warm. When mounting in a 4020 2RU frame, mount no more than two units together and leave a blank space on either side.</i></p>






### MiniBlox™ 10-bit broadcast quality analog to SDI video converters

	<p><b>4430 SDI composite ADC</b> Multi-standard NTSC/PAL composite analog input with 270Mb/s 525/625 SDI output.</p>
	<p><b>4430+ SDI composite ADC</b> Composite analog input with 270Mb/s 525/625 SDI output. Includes jitter filter, dual 11-bit oversampling, 5 line comb filter and recursive noise reduction.</p>
	<p><b>4431 SDI component ADC</b> YUV analog input with 270Mb/s 525/625 SDI output.</p>
	<p><b>4432 SDI universal ADC</b> YUV, YC or composite analog input with 270Mb/s 525/625 SDI output.</p>
	<p><b>4432+ SDI universal ADC</b> Composite analog YUV or YC input with 270Mb/s 525/625 SDI output. Includes jitter filter, dual 11-bit oversampling, 5 line comb filter and recursive noise reduction.</p>
	<p><b>4463A Composite analog to SDI converter</b> Includes an analog audio embedder. The unit accepts two stereo pairs and embeds them into the SDI data-stream. <i>Note: This unit gets a little warm. When mounting in a 4020 2RU frame, mount no more than two units together and leave a blank space on either side.</i></p>



**We take your success personally**

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### MiniBlox™ digital and analog audio embedders

	<p><b>4461A SDI/analog audio embedder</b>  Embeds 2 balanced analog stereo pairs into the ancillary data space of a 270Mb/s SDI stream.  <i>Note: This unit gets a little warm. When mounting in a 4020 2RU frame, mount no more than two units together and leave a blank space on either side.</i></p>
	<p><b>4461DB SDI balanced AES-EBU audio embedder</b>  Inserts two balanced AES-EBU digital audio streams into any audio group within a 270Mb/s 525/625 SDI signal.</p>
	<p><b>4461DB+ SDI balanced AES-EBU audio embedder</b>  Inserts two asynchronous balanced AES-EBU digital audio streams into any audio group within a 270Mb/s 525/625 SDI signal. Supports all sample rates from 32 to 96 KHz.  <i>Note: This unit gets a little warm. When mounting in a 4020 2RU frame, mount no more than two units together and leave a blank space on either side.</i></p>
	<p><b>4461DU SDI unbalanced AES-EBU audio embedder</b>  Inserts two unbalanced AES-EBU digital audio streams into any audio group within a 270Mb/s 525/625 SDI signal.</p>
	<p><b>4461DU+ SDI unbalanced AES-EBU audio embedder</b>  Inserts two asynchronous unbalanced AES-EBU digital audio streams into any audio group within a 270Mb/s 525/625 SDI signal. Supports all sample rates from 32 to 96 KHz.</p>

### MiniBlox™ digital and analog audio de-embedders

	<p><b>4462DB SDI balanced AES-EBU audio de-embedder</b>  Extracts two balanced AES-EBU digital audio streams from any audio group within a 270Mb/s 525/625 SDI signal.</p>
	<p><b>4462DU SDI unbalanced AES-EBU audio de-embedder</b>  Extracts two unbalanced AES-EBU digital audio streams from any audio group within a 270Mb/s 525/625 SDI signal.</p>

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### MiniBlox™ HD and SDI distribution amplifiers



#### 4206 1x6 3G-HD-SD re-clocking distribution amplifier

Digital video distribution amplifier that operates with all SDI standards from 270Mbit to 3GHz. It has automatic input cable equalization and provides 6 re-clocked outputs

### MiniBlox™ HD and SDI audio embedders



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

Inserts two balanced stereo analog audio pairs into any group in the ancillary data space of an SDI signal.



#### 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.

### MiniBlox™ HD and SDI audio de-embedders



#### 4262A 3G-HD-SD dual stereo analog audio de-embedder

Extracts two balanced stereo analog audio pairs from any group in the ancillary data space of an SDI signal and provides broadcast quality analog audio outputs.





#### 4262D 3G-HD-SD quad AES audio de-embedder

Extracts four AES audio streams (8 audio channels) from the ancillary data space of an SDI signal and provides broadcast quality balanced AES audio outputs.



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### MiniBlox™ AES/EBU audio distribution amplifier

	<p><b>4600B AES/EBU audio DA</b> 1x4 balanced (110Ω) on 9 pin 'D' connectors with an extra, unbalanced output on a BNC connector. Also includes cable equalization &gt;250m.</p>
	<p><b>4600U AES/EBU audio DA</b> 1x4 unbalanced (75Ω) with equalization &gt;600m.</p>

### MiniBlox™ audio encoder and decoder




	<p><b>4610 AES/EBU to analog audio DAC</b> Offers 24 bit ADC, gain controls, balanced or unbalanced I/O. The unit will operate on all input rates from 22 to 192kHz. Cable equalization is also included.</p>
	<p><b>4640 Analog audio to AES/EBU ADC</b> Offers 24 bit ADC, free running at 48kHz, locks to any AES reference from 22 to 96kHz. I/O can be balanced or unbalanced.</p>

### MiniBlox™ analog video distribution amplifier

	<p><b>4500 analog VDA</b> Analog video distribution amplifier with looping input and 3 outputs, and includes gain and equalization controls.</p>
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MiniBlox™ accessories	
*	<p><b>4000</b> External power supply which provides sufficient power for any one MiniBlox™ unit.</p>
	<p><b>4010</b> 1RUx19" mounting frame houses up to 5 MiniBlox™ units. Includes a central power supply.</p>
	<p><b>4020</b> 2RUx19" mounting frame houses up to 14 MiniBlox™ units. Includes a central power supply.</p>
*	<p><b>4021</b> Redundant power supply for 4020 2RU frame.</p>
	<p><b>5CA15SD</b> Audio cable sub-D15 to 4M XLRs</p>

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