

Atomix & Atomix LT

Atomix

DVS's video board Atomix extends the range of possible applications you ever thought about. High-end post production of digital film and demanding presentations will benefit from the unique quality of the uncompressed 4K and the 3D/stereo processing in 2K.

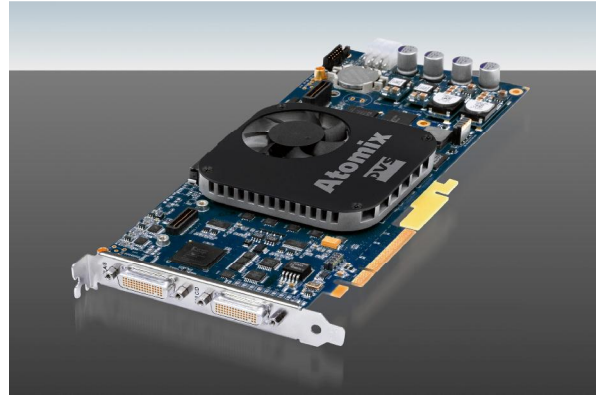
The integrated up/downscaler allows you to view 4K material on a 2K display or to edit sequences with different formats in the same timeline without pre-rendering. All formats can be changed in real-time during the play-out.

The 3D and 1D LUTs enable efficient color management and color grading without adding workload to your CPU.

Four DVI ports provide cost-efficient interfacing to most high-resolution projectors and displays. Two multi-rate SDI ports support SD, HD and 3.0 Gbps modes and can be configured as independent channels or as dual-link. Up to two independent channels are available with 2K RGB 4:4:4 in 3.0 Gbps mode.

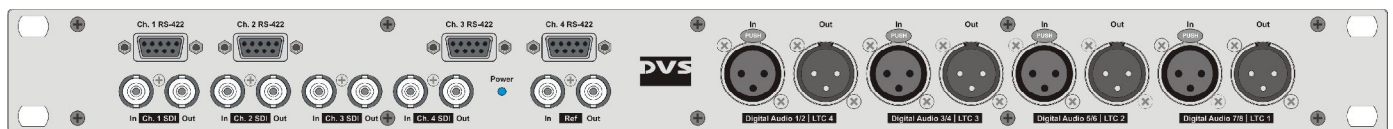
Of course, great movies deserve great sound: Atomix provides 16 channels AES/EBU and embedded audio in the SDI signal.

While multi-interface video boards usually need plenty of room for the connectors, DVS developed a modular break-out box system which adds four 3.0 Gbps SDI ports for uncompressed 4K. Atomix has its own AES/EBU audio and RS-422 connectors and the break-out box includes up to 16 channels of AES/EBU audio and four RS-422 ports. It connects directly to the front of Atomix and does not require additional slot space in the chassis.



Key Features Atomix

- Video board for high-end film, HDTV post production and high-end presentation
- Real-time play-out in uncompressed 4K via quad-link DVI or quad SDI via break-out box
- Real-time 3D/stereo play-out in uncompressed 2K via DVI or SDI, no break-out box required
- Capture and play-out via two 3.0 Gbps SDI ports
- Two independent video channels with independent input and output
- Up/downscaler for format adjustments
- 3D LUT for color management
- 1D LUT for range and gamma changes
- Low latency between input and output
- 16 embedded audio channels and 16 AES/EBU channels
- 2x RS-422 for remote control
- Drivers and SDK for Windows®, Linux®, and Mac Os®
- Sophisticated SDK, compatible among DVS video boards
- Highly skilled and qualified support, from developers for developers
- Optional JPEG2000 support
- Optional break-out box with
 - 4x SDI input
 - 4x SDI output
 - Watchdog to switch SDI input to output in the break-out box
 - 4x RS-422
 - AES/EBU audio
 - LTC input and output
 - No additional slot space required

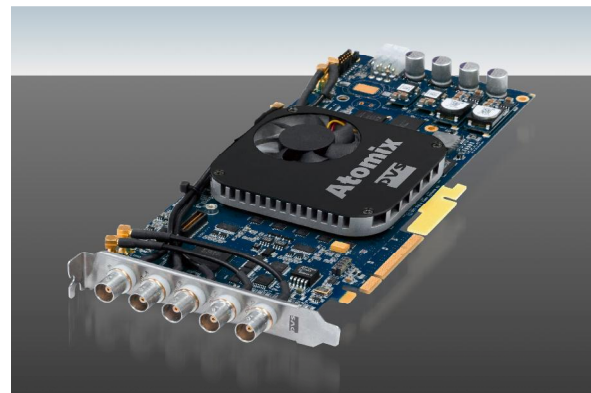


Atomix & Atomix LT

Atomix LT

Atomix LT shares most of its features with Atomix, but is designed for HDTV broadcast and film post production up to 2K.

Atomix LT features two video channels that can be used independently or in 3D/stereo mode up to 2K. Moreover, it has an up/downscaler, a 1D-LUT and multi-rate SDI ports with 3.0 Gbps which can be used in various single- and dual-link configurations.



Key Features Atomix LT

- Video board for broadcast and HDTV post production
- Two independent multi-rate SDI inputs and outputs with up to 3.0 Gbps
- Timecode and synchronized machine control
- Uncompressed video
- 1D LUT for range and gamma changes
- Low latency between input and output
- 16 channels AES/EBU, 16 channels embedded
- LTC input and output
- 2x RS-422 for remote control
- Drivers and SDK for Windows®, Linux® and Mac OS X®
- Sophisticated SDK, compatible among DVS video boards
- Highly skilled and qualified support, from developers for developers

Features	Atomix	Atomix LT	Centaurus II	Centaurus II LT
Video Formats				
SD/HD/2K	+	+	+	+
4K HSDL	+		+	+
4K	+			
Video				
SDI single-link 1.5 Gbps (input / output)	2x / 2x	2x / 2x	2x / 2x	1x / 2x
SDI dual-link 1.5 Gbps (input / output)	1x / 1x	1x / 1x	1x / 1x	- / 1x
SDI single-link 3.0 Gbps (input / output)	2x / 2x	2x / 2x		
SDI 12 bit via dual-link (1.5Gbps / 3.0 Gbps)	+ / +	+ / +	+ / -	- / -
Analog component output (RGB,YUV)			+	
DVI output	quad-link		dual-link	
Processing				
3D LUT up to 2K output	+		+	
1D LUT for input /output	- / +	- / +	+ / +	- / +
Mixer			+	
Up/downscaler with filtering up to 2K output	+	+		
Downscaler HD → SD with filtering			+	
Zoom & pan with pixel repetition			+	
Miscellaneous				
½ length PCIe (8x)			8x	4x
2/3 length PCIe (8x)	8x	8x		
Modular break-out boxes for easy plugging & handling	+	+	+	+