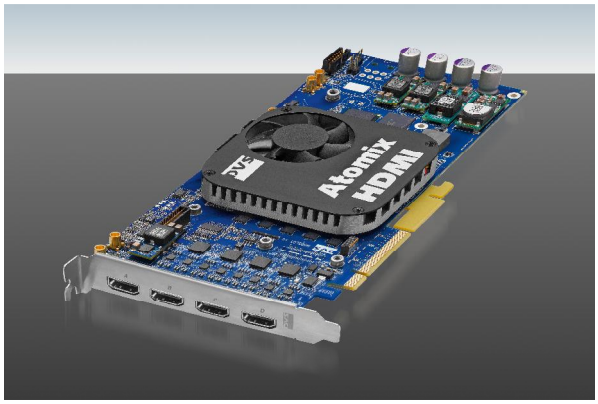
Spec Sheet

Atomix and Atomix HDMI



With its Atomix family of video boards, DVS has significantly extended the range of possible applications. Both high-end post production of digital film and demanding presentations benefit from the unique quality of uncompressed 4K and 3D/stereo processing in 2K.

The DVS boards offer two multi-rate SDI ports that 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.

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.

Atomix comes in two flavors: While the established Atomix board provides four DVI outputs, the newly launched Atomix HDMI features four HDMI ports, one of which supports the latest HDMI 1.4a standard. 4K material can be displayed via four DVI or HDMI ports – this provides a cost-efficient interfacing to most high-resolution projectors and displays. Atomix HDMI also supports Full HD 3D and 4K via one HDMI port.

While multi-interface video boards usually need plenty of room for the connectors, DVS has developed a breakout box system that adds four 3.0 Gbps SDI I/O ports for uncompressed 4K. Atomix has its own AES/EBU audio and RS-422 connectors and the breakout box includes up to 16 channels of AES/EBU audio and four RS-422 ports.

Key Features Atomix / Atomix HDMI

- Video boards for high-end film, HDTV post production and high-end presentation
- Real-time play-out in uncompressed 4K via quad-link DVI, quad-link HDMI or single-link HDMI 1.4a or quad-link SDI via breakout box
- Real-time Full HD 3D/stereo play-out via DVI, HDMI or SDI, no breakout box required
- Capture and play-out via two 3.0 Gbps SDI ports
- Two independent video channels with independent input and output
- Programmable 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
- 2 x RS-422 for remote control
- Drivers and SDK for Windows®, Linux®, Mac OS® X and integration with Final Cut Pro®
- Sophisticated SDK, compatible among DVS video boards
- Highly skilled and qualified support, from developers for developers
- Optional breakout boxes with
  - 4 x SDI input and 4 x SDI output
  - Watchdog to switch SDI input to output in the breakout box
  - 4 x RS-422
  - LTC input and output
  - No additional slot space required with Atomix HDMI

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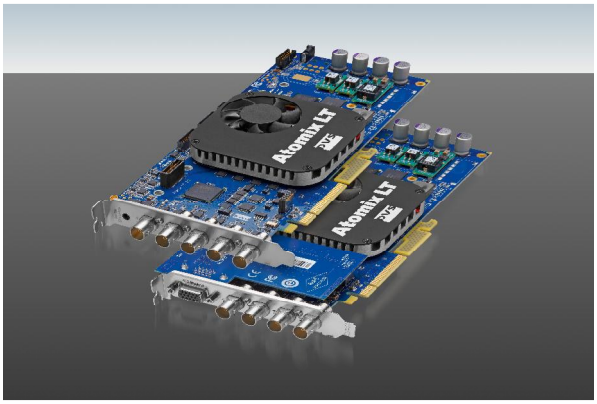
Atomix LT and Atomix LT 4 BNC

Atomix LT and Atomix LT 4 BNC share most of their features with Atomix, but are designed for HDTV broadcast and film post production up to 2K. The DVS boards feature two video channels that can be used independently or in 3D/stereo mode up to 2K. Moreover, they have an up/downscaler, a 1D LUT and multi-rate SDI ports with 3.0 Gbps that can be used in various single- and dual-link configurations.



Key Features Atomix LT / Atomix LT 4 BNC

- Video boards for broadcast and HDTV post
- Two independent multi-rate SDI inputs and outputs with up to 3.0 Gbps
- Programmable up/downscaler for format adjustments
- 1D LUT for range and gamma changes
- Low latency between input and output
- 16 channels AES/EBU, 16 channels embedded
- LTC input and output
- 2 x 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 HDMI	Atomix LT	Atomix LT 4 BNC
Video Formats				
SD/HD/2K	+	+	+	+
4K HSDL	+	+		
4K	+	+		
Video				
SDI single-link 1.5 Gbps (input / output)	2x /2x	2x / 2x	2x / 2x	2x / 2x
SDI dual-link 1.5 Gbps (input / output)	1x / 1x	1x / 1x	1x / 1x	1x / 1x
SDI single-link 3.0 Gbps (input / output)	2x / 2x	2x / 2x	2x / 2x	2x / 2x
SDI 12 bit via dual-link (1.5 Gbps / 3.0 Gbps)	+ / +	+ / +	+ / +	+ / +
DVI output	4x	4x via adapter		
HDMI output, version 1.3/1.4a		3x / 1x		
RS-422 on extra slot panel	2x	2x	2x	1x
AES/EBU input/output on extra slot panels	16x	16x	16x	8x
Reference input, LTC I/O, 1x RS-422, analog stereo out via breakout cable on VGA style connector				+
Processing				
3D LUT up to 2K output	+	+		
1D LUT up to 2K output	+	+	+	+
Up/downscaler with filtering up to 2K output	+	+	+	+
Mixer between SDI input and output	+	+	+	+
Miscellaneous				
⅔ length PCIe (elect./mech.)	8x / 8x	8x / 8x	4x / 8x	4x / 8x
Modular breakout boxes for easy plugging & handling	+	+	+	

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