

Matrox SMD-2



Large-Scale High-Density Low-Power IP Video Decode Solution

The second-generation Matrox Streaming Media Decoder (SMD-2) is a multi-resolution, multi-codec, multi-transport solution that decodes – in parallel – large numbers of IP network video streams in several different resolutions and formats. The SMD-2 receives network video streams from virtually any edge device, including IP cameras, encoders, media servers, and NVRs, and decodes and displays them at a 1:1 ratio – meaning every pixel decoded is seen on the display wall. Performance, scalability, flexibility, and support for a broad range of edge device manufacturers are the key ingredients to Matrox's IP decoding solution for display walls.

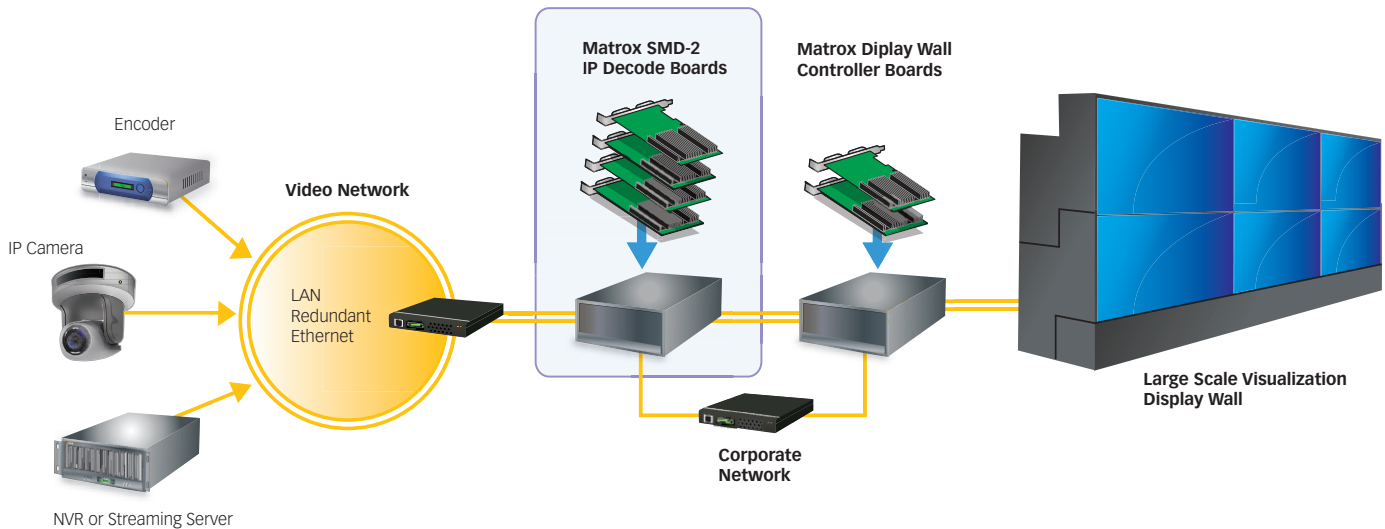
Key Benefits

- High-density solution reduces equipment, space, and energy costs per video stream
- Decode up to 128 D1 or 16 HD 1080 streams simultaneously using 8 SMD-2 cards in a single chassis
- Increase your stream count with multiple rack-mount enclosures for larger scale projects
- Compatible with a wide range of IP video devices
- Supports RTP, RTSP, TCP, UDP and IP network protocols including Unicast and Multicast
- Universal IP decoding for common codec formats (H.264, MPEG-4, MJPEG, etc.)
- Two 10/100/1000Mbit Base-T Ethernet ports for separate networks or redundancy
- Manipulate, scale, and position individual IP streams on a video wall through tight integration with Matrox display wall controller boards



Achieve Cost-Effective High Density IP Video Decode with the Matrox SMD-2

The Matrox SMD-2 is the ideal building block for large scale IP video decode solutions. Each SMD-2 board can simultaneously decode up to 64 CIF, 16 D1, or 2 HD 1080 streams in multiple formats and resolutions at up to 30 fps. By populating multiple enclosures with many SMD-2 boards, hundreds of IP video streams can be decoded and displayed in real time across any large video wall. Video streams decoded by SMD-2 boards are fed directly into Mura MPX or PPX inputs and displayed on high definition outputs. With dedicated video decoding power, the SMD-2 offloads the CPU from the resource-intensive tasks of video decoding and video streaming without sacrificing stream quality.



Host Bus Interface	Streaming Resolution Support	Codec Support	IP Cameras & Encoders Support *	
PCI or PCI-X (power only)	HD 1080	MJPEG	ACTI	Mavix
	HD 720	MPEG-2	ATEME	Optelecom
	XGA	MPEG-4	Axis	Panasonic
	SVGA	H.264	Bosch	Pelco
	4CIF	Custom formats	Canon	Siemens
	VGA		Comerson	Sony
	CIF		Dallmeier	Synetics
	QCIF		HikVision	Teracue
	Custom formats		IndigoVision	Truen
			LanAccess	VBrick

* Support for new devices and other manufacturers added frequently. Contact Matrox for an updated list.

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 June 2011

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