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.
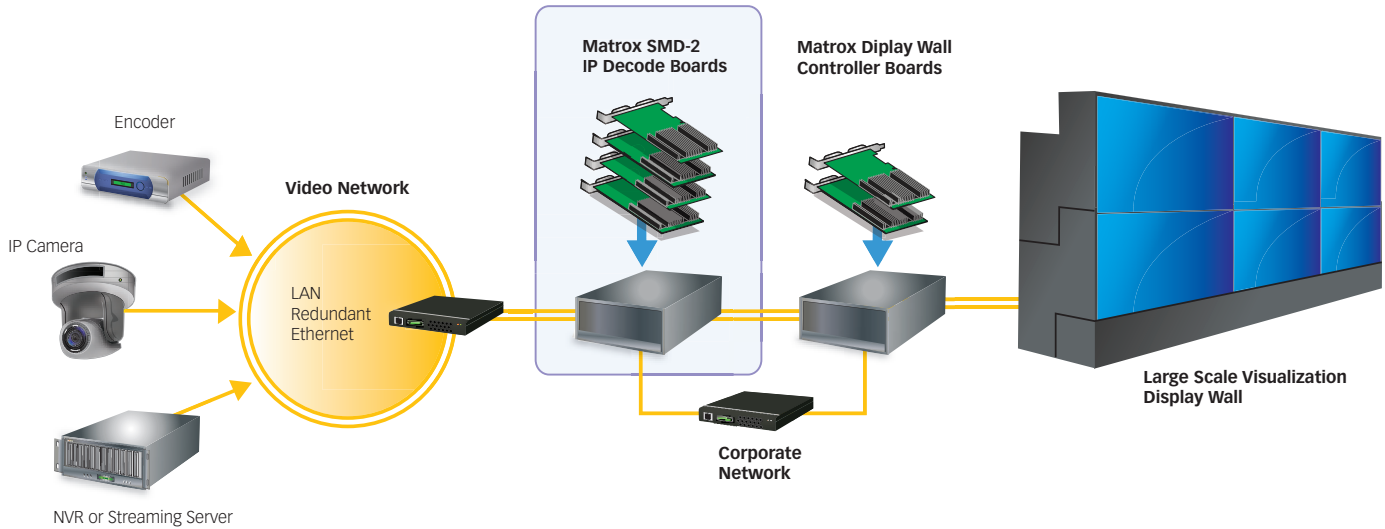
Key Benefits

- High-density solution reduces equipment, space, and energy costs per video stream
- Decode hundreds of SD streams and dozens of HD streams simultaneously using multiple SMD-2 cards
- 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

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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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