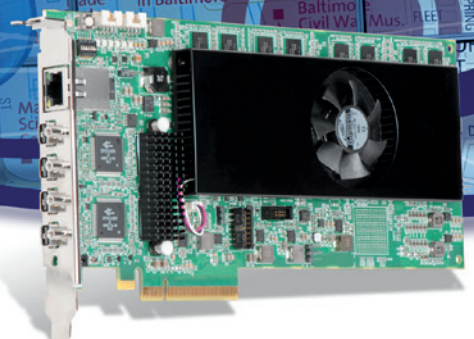# New! Matrox Mura™ IPX 4K IP Decode and Display

IP Decode and Display Allows Consolidation of Streams into High Density Multiviewers & Personal Video Walls

Matrox Mura™ IPX 4K IP decode and display cards empower integrators to create high-density IP-based multiviewers and personal video walls. These cards are designed for use in control rooms, process monitoring and security applications that require high-density decode and precise control.

Benefit from IP decoding and the flexibility of four DisplayPort™ outputs on a single-slot PCI Express® card for simplified integration and cost savings. Allowing for 4K video display in 32-bit color on up to four 4K displays means the Mura IPX decode & display can create stunning video walls running at an effective 8K resolution. Moreover, The Mura IPX decode and display works with the resolutions you require, decoding up to one 8K30, two 4K60, four 4K30, eight 1080p60, sixteen 1080p30, or a multitude of SD channels.

Intuitive Matrox MuraControl™ software allows the management of Mura IPX decode and display powered multiviewers from a console system or remotely using the MuraControl for Windows® software or MuraControl for iPad® app. Easy-to-use APIs can be leveraged for precise stream management using both local and network-based custom user interfaces.

Added functionality specifically for multiviewer applications has been integrated into the cards, with text overlay to indicate window titles, stream sources, locations, or zones, and onscreen clock providing a temporal reference for accurate stream monitoring.

Optimized for performance, Mura IPX provides options to allow greater flexibility in integration while also offering enhanced thermal reliability. Through the integration of the low-footprint Mura IPX Decode and Display cards, video wall controllers, multiviewers, and personal video walls can be built to the scale required for specific projects.
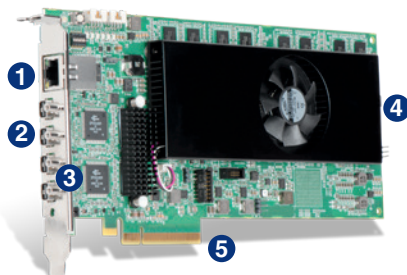
1) Work off a dedicated AV network, relieving demand on host systems
2) 4x Mini DisplayPort for up to 4K60 display
3) Prevent loose cabling with secure Mini DisplayPort connectors
4) Powered fan option allows active cooling in high demand environments
5) MURA-IPX-O4DF

matrox®
Graphics for Professionals

Matrox Mura IPX Series Decode & Display
Consolidate Streams into High-Density Multiviewers

4K IP Decode & Display Card (part number: MURAIPXO-D4LF)	
Product	
Board Type	Four Outputs and IP Decode
Connectors	4 x Mini DisplayPort, 1 x 100/1000 Base-T RJ45 Ethernet Port
DisplayPort[1] Output Resolutions	4096x2160 @30Hz, 3840x2160 @30Hz, 2560x1600 @60Hz
Bus Interface	PCIe x8 (Gen2)
Memory	4 GB (34 GB/sec)
Network Interface	
Standard	Ethernet 10/100/1000 Base-T, Auto-Detect, Half/Full-Duplex
Connector	RJ45
IP Version	IPv4/IPv6
Distribution Method	Unicast, Multicast and Multiple Unicast
IP Addressing	DHCP (Default) and Static IP
Streaming & Control Protocols	
Streaming Protocols	SRT, RTP, RTSP, MPEG2-TS, RTMP[3]
Command & Control Protocols	RS232, Telnet and HTTP/HTTPS
Color Space	
Pixel Transfer Formats	**RGB:** 8:8:8, 10:10:10 (24/32 bits per pixel), **YUV:** 4:4:4, 4:2:2, 4:2:0 (8/10 bits per component), **MONO:** (8/10 bits per pixel), Color Space Conversion Support
Video & Audio Processing	
Video Scaling	Matrox Advanced MultiTap Video Scaling Engine for 4K to SD multi-channel downscaling and SD to 4K multi-channel upscaling
Video Deinterlacing	Adaptive Deinterlacer and Antialiasing Technology
Video Compositing	Multi-Channel Video Composite/Key/Blend/Crop/Mirror/Flip
HDCP Compliance	Capture and scale HDCP content from sources such as external Blu-ray™ players, set-top boxes, and video game consoles
Audio Format	AAC, PCM, Stereo and Mono
Audio Sampling Rate	Between 32 KHz and 96 KHz
Video Decoding	
Codec Engine	H.264/MPEG-4 Part 10 (AVC), Up to Level 5.2
H.264 Profiles	Baseline profile (BP), Main Profile (MP), High Profile (HiP), High 10 Profile (Hi10P), High 4:2:2 Profile (Hi422P), High 4:4:4 Predictive Profile Separate Plane (Hi444PP)
H.264 Decode[1]	Two 3840x2160 @60Hz, four 3840x2160 @30Hz, eight 1920x1080 @60Hz, sixteen 1920x1080 @30Hz, numerous SD IP channels
Decoder Bitrates	100 Kbps to 500 Mbps CABAC, 100 Kbps to 800 Mbps CAVLC
Rate Control	Constant Bitrate (CBR), Variable Bitrate (VBR), VBR with Constraints, Configurable GOP (Group Of Pictures) Structure
Environmental & Power Conditions	
Operating Conditions	Temperature: 0 to 45 degrees Celsius, Humidity: 20% to 80% non-condensing, Altitude: from 650 hPA (3580m) to 1013 hPa (0m)
Non-operating/Storage Conditions	Temperature: -40 to 70 degrees Celsius, Humidity: 10% to 90% non-condensing, Altitude: from 192 hPA (12000m) to 1020 hPa (-50m)
Typical Power Consumption	24.6W (12V), 6.105W (3.3V) [Total: 30.705W]
General Specifications	
Dimensions[2] (L x H) / Weight	9.02 x 4.38 inches / 314g
Regulatory / Environmental Certifications	FCC Class B, CE Class B, ACMA Class B, VCCI Class B, MSIP, ICES - 003 Class B, CSA / EU RoHS, China RoHS, REACH
Warranty	2 Years

1. Standard resolutions listed above. Support for custom resolutions available. For specific requirements, contact Matrox.
2. Including gold-fingers; not including bracket and connectors.
3. Feature not yet supported. Please view Release Notes for latest supported protocols.