

Matrox Mura IPX 4K Capture Series – Enhanced Capabilities for Your Video Wall

	4K Capture & IP Decode	4K Capture and IP Encode/Decode
Product		
Board Type	Four Captures and IP Decode	Four Captures and IP Encode/Decode
Connectors	4 x Mini HDMI (Type C), 1 x 10/100/1000 Base-T RJ45 Ethernet Port [pn: MURAIPIXI-D4JF (fan sink), pn: MURAIPIXI-D4JHF (fanless)] 2 x DisplayPort 1.2 , 1 x 10/100/1000 Base-T RJ45 Ethernet Port [pn: MURAIPIXI-D2MF (fan sink), pn: MURAIPIXI-D2MHF (fanless)]	4 x Mini HDMI (Type C), 1 x 10/100/1000 Base-T RJ45 Ethernet Port [pn: MURAIPIXI-E4JF (fan sink), pn: MURAIPIXI-E4JHF (fanless)] 2 x DisplayPort 1.2 , 10/100/1000 Base-T RJ45 Ethernet Port [pn: MURAIPIXI-E2MF (fan sink), pn: MURAIPIXI-E2MHF (fanless)] 2 x 12G SDI , 2x 3G SDI , 1 x 10/100/1000 Base-T RJ45 Ethernet Port [pn: MURAIPIXI-E4SF (fan sink), pn: MURAIPIXI-E4SHF (fanless)]
Input Resolutions¹	HDMI/DP: 4096x2160 @60Hz*, 4096x2160 @30Hz, 3840x2160 @60Hz*, 3840x2160 @30Hz, 2560x1600 @60Hz	HDMI/DP: 4096x2160 60Hz*, 4096x2160 @30Hz, 3840x2160 @60Hz*, 3840x2160 @30Hz, 2560x1600 @60Hz SDI**: 12G-SDI on connectors 2 & 4 3G-SDI, HD-SDI, SD-SDI on all connectors
Bus Interface	PCIe x16 Gen 2 mechanical (x8 electrical)	
Memory	8 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 ³ , RTSP (unicast, multicast, TCP-interleave), MPEG2-TS 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 Compositing	Multi-Channel Video Composite/Key/Blend/Crop/Mirror/Flip	
HDCP Compliance	Capture, display, and scale HDCP sources	
Audio Format	AAC, PCM, Stereo and Mono	
Audio Sampling Rate	Between 32 KHz and 96 KHz	
HDCP Support	HDCP is supported with Mura IPX Capture Series* and the Matrox D-Series video wall graphics card	
Video Encoding/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 Encode^{1,4}	—	Two 3840x2160 @60Hz, four 3840x2160 @30Hz, eight 1920x1080 @60Hz, sixteen 1920x1080 @30Hz, or numerous SD IP channels
H.264 Decode^{1,4}	Two 3840x2160 @60Hz, four 3840x2160 @30Hz, eight 1920x1080 @60Hz, sixteen 1920x1080 @30Hz, or numerous SD IP channels	
Encoder/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		
Conditions	Operating: Temperature: 0 to 45 degrees Celsius, Humidity: 20% to 80% non-condensing, Altitude: from 650 hPa (3580m) to 1013 hPa (0m) Storage: 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		
Dimensions² (L x H)/Weight	9.02 x 4.38 inches/304g (fan sink), 9.02 x 4.38 inches/268g (fanless)	
OS Support	Linux® & all 64-bit Professional, Standard, Embedded, and Server versions of Microsoft Windows 10 and Windows 11	
Regulatory Certifications	FCC Class B, CE Class B, ACMA Class B, VCCI Class B, MSIP, ICES - 003 Class B, China RoHS, REACH	
Environmental Certification	CSA/EU RoHS	
Warranty	2 Years (fan sink), 3 Years (fanless)	

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. No support for these protocols for encoding purposes. Please see Release Notes for more details.

4. Listed number of streams are in YUV 4:2:0, 12 bits per pixel (8 bits per component). Support for 4:2:2 and 4:4:4 streams also available.

* For the HDMI capture cards only, input resolution is in YUV 4:2:0, 12 bits per pixel (8 bits per component).

** 6G-SDI not supported. Not all 12G-SDI and 3G-SDI formats are supported. Please contact Matrox for more details.

Contact Matrox

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