



# Video Wall Products

Build small or large collaborative video walls using Mura MPX capture & display and Mura IPX capture, encode, decode, and display cards. Mura hardware, combined with easy-to-use APIs and MuraControl for iPad® or Windows® management software gives integrators the essential building blocks for control room, corporate boardroom, and digital signage video wall systems.

## Mura IPX Series – capture, encode, decode, and display cards

| Product  | Part Number  | Board Type                                   | Interface         | Memory              | Pixel Transfer Formats  | Resolutions  | H.264 (up to level 5.2) encode/ decode  | Bitrates  | H.264 Profiles                                |  |
|--|--|--|-------------------|---------------------|---|--|---|---|---|--|
| Mura-IPX-I4DF/<br>Mura-IPX-I4DHF<br><i>New</i> | MURAI PXI-D4JF<br>(active cooling)<br>MURAI PXI-D4JHF<br>(passive cooling) | Four<br>Captures and<br>IP Decode            | PCIe x8<br>(Gen2) | 4 GB<br>(34 GB/sec) | <b>RGB:</b><br>8:8:8, 10:10:10<br>(24/32 bits<br>per pixel)<br><b>YUV:</b><br>4:4:4, 4:2:2, 4:2:0<br>(8/10 bits<br>per component)<br><b>MONO</b><br>Color Space<br>Conversion Support | <b>Input Resolutions<br/>(HDMI)<sup>1</sup>:</b><br>4096x2160 @ 60 Hz <sup>2</sup> ,<br>4096x2160 @ 30 Hz,<br>3840x2160 @ 60Hz <sup>2</sup> ,<br>3840x2160 @ 30 Hz,<br>2560x1600 @ 60 Hz | <b>Decode:</b><br>2x 3840x2160 @ 60Hz,<br>4x 3840x2160 @ 30Hz,<br>8x 1920x1080 @ 60Hz,<br>16x 1920x1080 @ 30Hz,<br>or numerous SD IP channels | 100 Kbps to<br>500 Mbps<br>CABAC,<br>100 Kbps to<br>800 Mbps<br>CAVLC | BP<br>MP<br>HIP<br>Hi10P<br>Hi422P<br>Hi444PP |  |
| Mura-IPX-I4EF/<br>Mura-IPX-I4EHF<br><i>New</i> | MURAI PXI-E4JF<br>(active cooling)<br>MURAI PXI-E4JHF<br>(passive cooling) | Four<br>Captures and<br>IP Encode/<br>Decode |                   |                     |   |  |   |   |   | <b>Encode and/or Decode:</b><br>2x 3840x2160 @ 60Hz,<br>4x 3840x2160 @ 30Hz,<br>8x 1920x1080 @ 60Hz,<br>16x 1920x1080 @ 30Hz,<br>or numerous SD IP channels                                      |
| Mura-IPX-O4DF<br><i>New</i>                    | MURAI PXO-D4LF   | Four Outputs<br>and IP Decode                |                   |                     |   |  |   |   |   | <b>Output Resolutions<br/>(DisplayPort)<sup>1</sup>:</b><br>4096x2160 @ 60 Hz <sup>2</sup> ,<br>4096x2160 @ 30 Hz,<br>3840x2160 @ 60Hz <sup>2</sup> ,<br>3840x2160 @ 30 Hz,<br>2560x1600 @ 60 Hz |

1 Standard resolutions listed. Support for standard and custom resolutions available. For specific requirements contact Matrox.  
2 In YUV 4:2:0, 12 bits per pixel (8 bits per component).

## Mura MPX Series – Video Wall Capture & Display Cards

| Product      | Part Number  | Board Type             | Interface              | Memory             | Transfer rate | Output Resolutions <sup>1</sup> |                  | Input Resolutions <sup>1</sup><br>(Per Display) |   |                   |                   |   |
|--------------|--------------|------------------------|------------------------|--------------------|---------------|---------------------------------|------------------|---|---|-------------------|-------------------|---|
|              |              |                        |                        |                    |               | SL-DVI                          | RGB (VGA)        | SL-DVI <sup>2</sup>                             | RGB (VGA) <sup>2</sup>                            | Component (VPbPr) | S-Video Composite | SDI   |
| Mura MPX-4/4 | MURA-MPX44HF | 4 outputs<br>4 inputs  | PCI Express x16 (Gen2) | 2GB <sup>3</sup>   | 64 Gbit/sec   | 2048x1152 @ 60Hz                | 2048x1536 @ 60Hz | 1920x1200 @ 60Hz<br>2560x1600 @ 30Hz            | 1920x1200 @ 60Hz<br>2048x1536 @ 47Hz <sup>5</sup> | 1080i             | NTSC/PAL<br>SECAM |   |
| Mura MPX-4/2 | MURA-MPX42HF | 4 outputs<br>2 inputs  | PCI Express x16 (Gen2) | 2GB <sup>3</sup>   | 64 Gbit/sec   | 2048x1152 @ 60Hz                | 2048x1536 @ 60Hz | 1920x1200 @ 60Hz<br>2560x1600 @ 30Hz            | 1920x1200 @ 60Hz<br>2048x1536 @ 47Hz <sup>5</sup> | 1080i             | NTSC/PAL<br>SECAM |   |
| Mura MPX-4/0 | MURA-MPX40HF | 4 outputs<br>0 inputs  | PCI Express x16 (Gen2) | 2GB <sup>3</sup>   | 64 Gbit/sec   | 2048x1152 @ 60Hz                | 2048x1536 @ 60Hz | —   | —   | —                 | —                 |   |
| Mura MPX-SDI | MURA-MPXSDIF | 2 outputs<br>2 inputs  | PCI Express x16 (Gen1) | 1GB <sup>3</sup>   | 32 Gbit/sec   | 2048x1152 @ 60Hz                | 2048x1536 @ 60Hz | —   | —   | —                 | —                 | 1920x1080 @ 60Hz<br>3G SDI, HD SDI,<br>SD SDI |
| Mura MPX-V16 | MURA-MPXV16F | 0 outputs<br>16 inputs | PCI Express x4 (Gen1)  | 256MB <sup>4</sup> | 8 Gbit/sec    | —                               | —                | —   | —   | —                 | NTSC/PAL<br>SECAM | —   |
| Mura MPX-V8  | MURA-MPXV8F  | 0 outputs<br>8 inputs  | PCI Express x4 (Gen1)  | 128MB <sup>4</sup> | 8 Gbit/sec    | —                               | —                | —   | —   | —                 | NTSC/PAL<br>SECAM | —   |

1- Maximum resolutions listed. Support for standard and custom resolutions available. For specific requirements contact Matrox.  
2- RGB (VGA) adapter included with Mura MPX 4/0, Mura MPX 4/2, and Mura MPX 4/4. Matrox adapters sold separately for component, s-video, and composite. Contact Matrox for details.  
3- Shared memory for inputs and outputs. <sup>4</sup> Input memory. <sup>5</sup> For specific requirements contact Matrox.