9x9 digital crosspoint router frame with redundant power supplies, built-in control panel and CPU2

**Features**

- Active fan cooling
- Directly mountable in 19" rack
- EtherCON ruggedized LAN connector
- Built-in universal power supply
- Vista Spyder and Barco Encore compatibility
- Combine non-HDCP and HDCP capable I/O boards in the same frame
- Compatible with all MX-... and MXD-... I/O boards
- Multiple TCP/IP connections
- Advanced EDID Management
- Save and reload full crosspoint configurations as preset
- Front panel LCD menu and buttons for crosspoint control
- Intuitive control software for device configuration
- Device control via Ethernet (TCP/IP), RS-232 and USB
- Fully non-blocking switching architecture
- Built-in website for device configuration
- No video compression
- Bi-directional RS-232 extension (pass-through)
- Firmware upgrade through Ethernet
- Supports all embedded audio formats (including PCM, Dolby Digital and DTS high bitrate audio)
- No signal latency, zero frame delay

**Incorporated Proprietary Lightware Technologies**

- No signal latency – Zero frame Delay
- Advanced EDID Management
- HDCP compatibility:
  - Red screen alert
  - HDCP key counter
  - HDCP key caching
  - HDCP enabling/disabling function
- Instantaneous Switching
- Frame Detector and Input Signal Analysis
- Built-in cable compensation
- Pixel Accurate Reclocking

The MX series modular matrix routers are the highest performance, expandable DVI and HDMI compliant switchers, available in five different frame sizes. The built-in sophisticated software and hardware features make these routers the most flexible integrated solution for AV professionals and high-end home theatre applications. These frames and their I/O board product line incorporate proprietary features, broad signal compatibility, precise switching, control, troubleshooting and signal measurement. The MX router frames start from 9x9 I/O size the largest available MX frame size is 80x80. The Hybrid Modular Design of MX modular routers allow AV professionals to select I/O sizes, video signal types and transport media options according to their application requirements and fully customize their system.
Specifications for all frames:

- **Video data rate:** 12.8 Gbps
- **EDID memory:** 100 factory preset and 50 user programmable
- **EDID emulation:** 256-Byte Extended EDID v1.3
- **Front panel buttons:** Yes
- **Front panel LCD:** Yes, 4 x 20 characters
- **RS-232:** Selectable (9600, 38400, 57600, 115200) Baud RX, TX (default: 57600)
- **LAN:** Ethernet 10Base-T or 100Base-TX (Auto-sensing)
- **Temperature:** 0°C to +50°C operational, -40°C to +70°C storage
- **Humidity:** 10 to 90% non-condensing
- **Altitude:** 2000 m operational
- **EMI/EMC compliance:** Yes, EN 55022 Class B
- **RoHS compliance:** Yes
- **Warranty:** 3 years

Available MX Frames Sizes and Specifications:

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Equipped with MX-CPU2 processor board</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>I/O board slots</td>
<td>10 in, 10 out</td>
<td>8 in, 8 out</td>
<td>4 in, 4 out</td>
<td>4 in, 4 out</td>
<td>2 in, 2 out</td>
<td>2 in, 2 out</td>
<td>1 in, 1 out</td>
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<tr>
<td>Custom I/O sizes (Crosspoint size)</td>
<td>from 9x9 to 60x60</td>
<td>from 9x9 to 65x65</td>
<td>from 9x9 to 33x33</td>
<td>from 9x9 to 33x33</td>
<td>from 9x9 to 17x17</td>
<td>from 9x9 to 17x17</td>
<td>9x9</td>
</tr>
<tr>
<td>Dual-Link DVI compatible (Dual-Link crosspoint size)</td>
<td>from 4x4 to 40x40</td>
<td>from 4x4 to 32x32</td>
<td>from 4x4 to 16x16</td>
<td>from 4x4 to 16x16</td>
<td>from 4x4 to 8x8</td>
<td>from 4x4 to 8x8</td>
<td>4x4</td>
</tr>
<tr>
<td>Rack height</td>
<td>15U</td>
<td>15U</td>
<td>7U</td>
<td>6U</td>
<td>4U</td>
<td>4U</td>
<td>4U</td>
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<tr>
<td>Redundant high reliability power supplies</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✗</td>
<td>✗</td>
<td>✔️</td>
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<tr>
<td>Number of power supplies</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
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<tr>
<td>Power supply hot swappable</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✗</td>
<td>✗</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Power consumption1</td>
<td>114 W</td>
<td>114 W</td>
<td>27 W</td>
<td>26 W</td>
<td>19 W</td>
<td>19 W</td>
<td>19 W</td>
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<tr>
<td>Heat dissipation (BTU)1</td>
<td>389</td>
<td>389</td>
<td>92</td>
<td>89</td>
<td>65</td>
<td>65</td>
<td>65</td>
</tr>
<tr>
<td>Cooling (forced convection) 120 mm fans</td>
<td>10</td>
<td>10</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Dimensions with rack mounting ears:</td>
<td>482 W x 665 H x 392 D mm</td>
<td>482 W x 665 H x 392 D mm</td>
<td>482 W x 309,5 H x 400 D mm</td>
<td>265,5 H x 300 D mm</td>
<td>176,5 H x 300 D mm</td>
<td>176,5 H x 300 D mm</td>
<td>176,5 H x 300 D mm</td>
</tr>
<tr>
<td>Dimensions without rack mounting ears:</td>
<td>440 W x 665 H x 392 D mm</td>
<td>440 W x 665 H x 392 D mm</td>
<td>440 W x 309,5 H x 400 D mm</td>
<td>265,5 H x 300 D mm</td>
<td>176,5 H x 300 D mm</td>
<td>176,5 H x 300 D mm</td>
<td>176,5 H x 300 D mm</td>
</tr>
<tr>
<td>Net weight2</td>
<td>25 kg</td>
<td>25 kg</td>
<td>12 kg</td>
<td>12 kg</td>
<td>9,8 kg</td>
<td>10,8 kg</td>
<td>9,8 kg</td>
</tr>
</tbody>
</table>

1 with CPU2 board and without I/O boards  
2 with CPU2 board, power supplies and without I/O boards