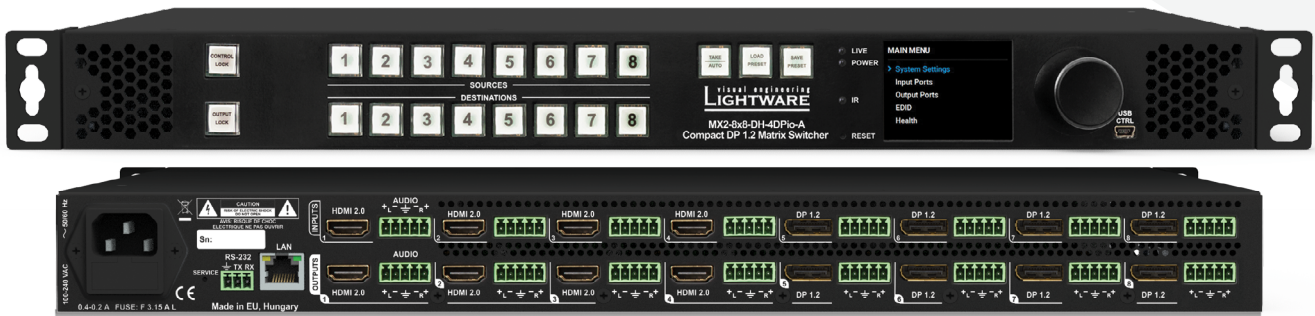


Full 4K Matrix Switcher with 8x8 DisplayPort 1.2 I/O Ports



Part No: 91310085

Details

MX2-8x8-DH-4DPio-A supports uncompromised **4K UHD resolution at 60Hz with RGB 4:4:4 colorspace** and with down-conversion capabilities to 4:2:2. The DisplayPort connectors of the device allow **connecting DisplayPort 1.2 video sources directly**, without the need of adapters or dongles.

The DisplayPort input signals are transformed to HDMI for signal management. Input signals that do not fit in the HDMI 2.0 bandwidth of 18GHz can be converted to 4:2:2 while maintaining bit depth, thus **allowing for HDR transmission**. The switcher has outstanding port density making it particularly suitable for fix-install applications and for future-proof operation centers, for installations where a huge number of DisplayPort 1.2 compliant input and output ports are required. This router **supports 3D, Dolby TrueHD and DTS-HD Master Audio and also HDR and Dolby Vision**. Proprietary Lightware technologies like **Pixel Accurate Reclocking and Advanced EDID Management** are included and can be controlled via the built-in website.

MX2-8x8-DH-4DPio-A allows **embedding audio to, and de-embedding audio from the signal stream** at dedicated analog audio I/O ports.

Crosspoint switching functions are available via keys on the front panel.

The matrix is recognized by the connected DisplayPort source as a DP-to-HDMI converter, and video input signals of 3840x2160 4:4:4 RGB 10 bit are converted to 3840x2160 4:2:2 YCbCr 10 bit or 3840x2160 4:4:4 RGB 8 bit on the DisplayPort input.

Furthermore, it's important to note that DP Multi-Stream (MST), Dual-mode DisplayPort (DP++), Adaptive-Sync and FreeSync™ are not supported, and neither is HDR on DisplayPort outputs.

Features

- **HDCP 2.2 and HDCP 1.4 compliant with cross conversion capabilities**
- **Supports HDMI 4K signal formats (4K UHD @60Hz RGB 4:4:4, up to 18 Gbps)**
- **HDR and Low Latency Dolby Vision support**
- Front to back cooling airflow
- Device control via Ethernet (TCP/IP) and RS-232
- Advanced EDID Management
- Front panel LCD menu and buttons for crosspoint control
- Fully non-blocking switching architecture
- Built-in website for device configuration
- Pixel Accurate Reclocking

Specification

Routing	8 input 8 output, non blocking architecture
Speed	18 Gbps per port
Resolution	Up to 4096x2160@60Hz at RGB or YCbCr 4:4:4 (up to 600MHz pixel clock)
Dimensions	1RU height, 442 W x 277.5 D x 43,7 H mm
Mounting	Rack mountable, removable rack ears

Connectors

Power	IEC standard, 110/220V
Video inputs	4 x DisplayPort 1.2 + 4 x HDMI 2.0
Video outputs	4 x DisplayPort 1.2 + 4 x HDMI 2.0
Audio inputs	8 x 5-pole Phoenix
Audio outputs	8 x 5-pole Phoenix
Serial control	3-pole Phoenix
Ethernet	RJ45
USB	Mini USB B

Please see the below table for the comparison of the MX2 DH matrix switcher series:

	Product	Inputs			Outputs			Front panel I/O buttons	Front panel LCD menu	Redundant power supply
		HDMI	DP	Audio	HDMI	DP	Audio			
MIXED HDMI / DP	MX2-8x8-DH-4DPi-A	4x	4x	✗	8x	✗	2x	✓	✓	✗
	MX2-8x8-DH-8DPi-A	✗	8x	4xD	8x	✗	4xH	✓	✓	✗
	MX2-16x16-DH-8DPi-A-R	8x	8x	8xH	16x	✗	4xH+4xA	✓	✓	✓ (PowerCON)
	MX2-24x24-DH-12DPi-A-R	12x	12x	8xH+4xD	24x	✗	8xH	✓	✓	✓ (PowerCON)
	MX2-24x24-DH-12DPi-R	12x	12x	✗	24x	✗	✗	✓	✓	✓ (PowerCON)
	MX2-32x32-DH-16DPi-A-R	16x	16x	8xH+4xD	32	✗	8xH+8xA	✓	✓	✓ (PowerCON)
	MX2-48x48-DH-24DPio-A-R	24x	24x	8xH+8xD	24x	24x	8xH+24xD	✓	✓	✓ (PowerCON)
DP	MX2-8x8-DH-8DPio-A	✗	8x	4xD	✗	8x	8xD	✓	✓	✗
	MX2-24x24-DH-24DPio-A-R	✗	24x	8xD	✗	24x	24xD	✓	✓	✓ (PowerCON)
	MX2-48x48-DH-48DPio-A-R	✗	48x	16xD	✗	48x	48xD	✓	✓	✓ (PowerCON)
		H: next to HDMI			A: independent audio out			D: next to DP		