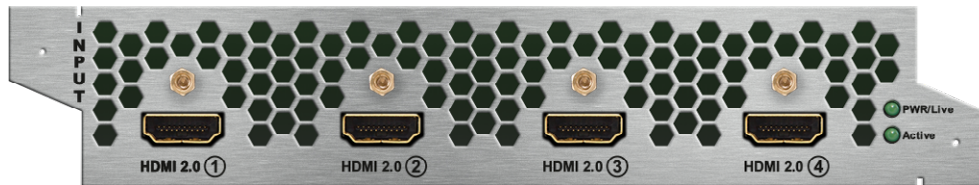


HDMI 2.0 Input Boards

Part No: 9112 0045



MX2M-4HDMI20-IB is a HDMI 2.0 compatible input board for the MX2M modular matrix family. The hot-swappable input board has four HDMI connectors of type A, all with flange. All inputs are HDMI 2.0 compliant and can pass HDMI signals with a pixel clock frequency of up to 597 MHz. Advanced professional features of the board include HDCP enable/disable mode, support for signals with high dynamic range or unusual dimensions, pixel accurate reclocking, EDID management, and Frame detector.

The board extracts the audio from all four incoming HDMI signals to the Audio layer, through which the audio streams can be routed to any of the video or audio output ports.

Features

- HDMI 2.0, HDMI 1.x, and DVI compatible
- Resolutions up to UHD/4k@60Hz 4:4:4
- Uncompressed video up to 18 Gbps
- No signal latency, zero frame delay
- HDCP 2.3 and HDCP 1.4 support
- Support for HDR10, Dolby Vision, HLG
- Deep color support
- 3D signal support
- Hot-swap support
- Advanced EDID management
- DisplayID support for forcing extreme formats (e.g. 7kx1k@60Hz 4:4:4) from the connected source
- CEC support with command injection
- Pixel accurate reclocking
- Pass-through and de-embedding of HDMI 2.0 audio including uncompressed (LPCM, DSD), compressed (MPEG 1 L1, MPEG 1 L2, MPEG 1 L3, AC-3, Dolby Digital, Dolby Digital Plus, Dolby Digital EX, Dolby Digital Surround EX, DTS, DTS ES) and compressed HBR (Dolby Atmos, Dolby TrueHD, DTS-HD DA) formats

Specification

Video	Resolution	Up to UHD/4k@60Hz 4:4:4 (with support for extreme formats e.g 7kx1k by)	
	Signal Type	HDMI 2.0, HDMI 1.x, DVI	
	Maximum data rate	18 Gbps	
	Maximum pixel clock	597 MHz	
	Content protections	HDCP 1.x, HDCP 2.2, HDCP 2.3	
	Connector type	4x HDMI receptacle type A with and without flange	
	Video processing	Signal parameter measurement	
	Standards	HDMI 2.0, HDMI 1.4, DVI	
Audio	Audio mode	Simultaneous pass-through and de-embedding to the Audio layer	
	Supported audio formats for pass-through	All HDMI2.0 audio formats	
	Supported audio formats for de-embedding	Uncompressed	LPCM (up to 8 channels, 192 kHz, 24 bits per sample)
		Compressed	MPEG 1 L1, MPEG 1 L2, MPEG 1 L3, AC-3, Dolby Digital, Dolby Digital Plus, Dolby Digital EX, Dolby Digital Surround EX, DTS, DTS ES
	Compressed HBR	Dolby Atmos, Dolby TrueHD, DTS-HD DA	
General	Powering	via MX2M frame	
	Power consumption (max)	11 W	
	Thermal dissipation (max)	37,5 BTU/hr	
	Weight	TBD	
	Operating conditions	Ambient temperature	0-50oC
		Relative humidity	0-90% (non-condensing)
	Transportation conditions	Ambient temperature	-20-70oC
		Relative humidity	0-95% (non-condensing)
	Compliance	EN 55032:2015 IEC 61000-3-3:2013+AMD1:2017 IEC 61000-3-2:2018 FCC CFR Title 47, Part 15, Subpart B	
	Warranty	3 years	