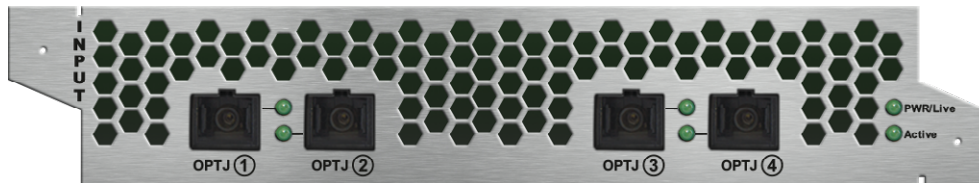# MX2M-4OPTJ-IB

HDMI 2.0 Multimode Input Board
Part No: 9112 0047

MX2M-4OPTJ-IB is a HDMI 2.0 compatible input board for the MX2M modular matrix family. The hot-swappable input board has four ports with optical SC connectors that can connected to HDMI20-OPTJ-TX90 extenders. 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
- Extension distance of up to 600 meters for 4k@60Hz 4:4:4 signals and 2500 meters for full HD signals
- 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

MX2M-4OPTJ-IB

Specification

Video	Resolution		Up to 4k/UHD@60Hz 4:4:4
	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 optical SC
	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 Digtal, 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)		15,5 W
	Thermal dissipation (max)		52,9 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)
	Complience		EN 55032:2015 IEC 61000-3-3:2013+AMD1:2017 IEC 61000-3-2:2018 FCC CFR Title 47, Part 15, Subpart B CENELEC EN 60825-1:2014 FCC CFR Title 21, Chapter I, Subchapter J, Part 1040, Section 1040.10
	Warranty		3 years