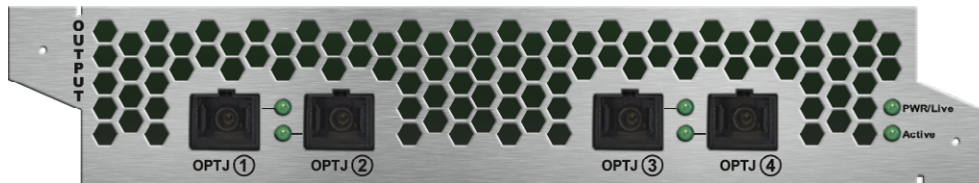


HDMI 2.0 Single Fiber, Multimode Output Board

Part No: 9113 0054



MX2M-4OPTJ-OB is a HDMI 2.0 compliant output board for the MX2M modular matrix family. The hot-swappable output board has four ports with optical SC connectors that can be connected to HDMI20-OPTJ-RX90 extenders. All outputs 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 conversion, support for signals with high dynamic range or unusual dimensions, EDID management, and chroma subsampling from 4:4:4 to 4:2:2.

The board can replace the audio in all four routed HDMI signals with compressed or LPCM audio streams from the Audio layer.

Features

- HDMI 2.0, HDMI 1.x, and DVI compliant
- 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 with cross conversion capabilities
- Support for HDR10, Dolby Vision, HLG
- Deep color support
- Hot-swap support
- 3D signal support
- Advanced EDID management
- DisplayID support
- Chroma sub-sampling from 4:4:4 to 4:2:2
- CEC support with command injection
- Pass-through and of all HDMI 2.0 audio formats
- Embedding of uncompressed (LPCM) and 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) formats

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		Video parameter measurement, chroma subsampling to 4:2:2	
	Standards		HDMI 2.0, HDMI 1.4, DVI	
Audio	Audio mode		Pass-through or embedding from the Audio layer	
	Supported audio formats for pass-through		All HDMI2.0 audio formats	
	Supported audio formats for embedding	Uncompressed		LPCM (up to 2 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		-	
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)
	Compliance			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