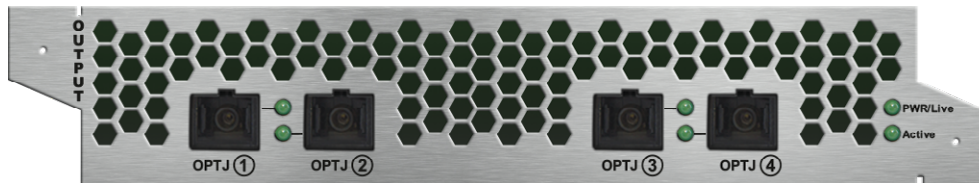


HDMI 2.0 Multimode Fiber Output Board

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 |