

HDMI Output Board Including 4K, 3D and Deep Color



MX-HDMI-3D-OB



MX-HDMI-3D-OB-A



MX-HDMI-3D-OB-S



Part No: 9113 0005, 9113 0006 (A), 9113 0007 (S)

Description:

MX-HDMI-3D-OB is an eight channel HDMI 1.4a output board, with DVI and HDCP compliance supporting all 3D formats. The output board is available with audio add-on connectors: digital S/PDIF or analog stereo connectors are available for advanced audio functions (HDMI embedded audio signals are managed by the board as well). The MX-HDMI-3D-OB without the digital or analog audio option can handle HDMI embedded audio as well. Pixel Accurate Reclocking, HDMI to DVI conversion are all incorporated. The board is compatible with deep color, Dolby TrueHD and DTS-HD audio.

Digital S/PDIF Audio Option:

- SS/PDIF breakout for every port
- Bi-directional configurable S/PDIF connectors: audio can be de-embedded from the HDMI signals or audio can be embedded (or replaced) to the HDMI signal

Features:

- HDMI 1.4a; DVI and HDCP compliant
- 4K / UHD (30Hz RGB 4:4:4 , 60Hz YCbCr 4:2:0), HD video resolutions and all 3D formats are supported
- Available models: analog stereo audio option (MX-HDMI-3D-OB-A) or digital S/PDIF audio option (MX-HDMI-3D-OB-S) or without audio option (MX-HDMI-3D-OB)
- Advanced EDID Management and Frame Detector
- Pixel Accurate Reclocking
- Dolby TrueHD and DTS-HD Master Audio
- 36-bit deep color support
- Adjustable analog audio settings

Analog Stereo Audio Option:

- Bi-directional configurable analog stereo port with five-pole phoenix connector
- Stereo PCM audio up to 96 kHz can be de-embedded from the HDMI signals
- Digitalized audio (PCM 48 kHz) can be embedded (or replaced) to the HDMI signal
- Volume, gain, balance, bass and treble control
- Phase invert, DC filter and de-emphasis option

Analog Audio Inputs

Volume:	-78 .. 0 dB
Bass:	0 .. 24 dB
Treble:	0 .. 6 dB
Balance:	0 .. 100%
Phase invert:	On/Off
De-emphasis:	On/Off

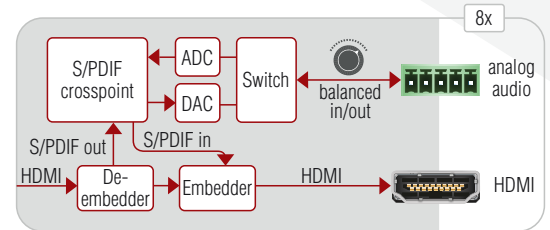
Analog Audio Outputs

Volume:	-63 .. 0 dB
Gain:	0 .. 24 dB
Balance:	0 .. 100%
Phase invert:	On/Off

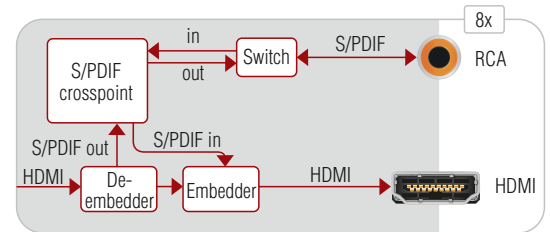
Specifications

HDCP compliancy:	Yes
Max Resolution:	Up to 4K / UHD (30Hz RGB 4:4:4 , 60Hz YCbCr 4:2:0)
3D signal compatibility:	Frame packing, side-by-side, top-bottom
Power consumption (3.3 V) MX-HDMI-3D-OB & -OB-S:	0.79 A (typ.), 1.32 A (max.)
Power consumption (3.3 V) MX-HDMI-3D-OB-A:	1.03 A (typ.), 1.72 A (max.)
Power consumption (5 V) MX-HDMI-3D-OB & -OB-S:	0.56 A (typ.), 0.93 A (max.)
Power consumption (5 V) MX-HDMI-3D-OB-A:	0.56 A (typ.), 0.93 A (max.)
Calculated AC Power (W) MX-HDMI-3D-OB & -OB-S:	7.7 W (typ.), 12.9 W (max.)
Calculated AC Power (W) MX-HDMI-3D-OB-A:	8.9 W (typ.), 14.8 W (max.)
Heat dissipation (BTU/h) MX-HDMI-3D-OB & -OB-S:	28 BTU/h (typ.), 47 BTU/h (max.)
Heat dissipation (BTU/h) MX-HDMI-3D-OB-A:	33 BTU/h (typ.), 54 BTU/h (max.)
Weight MX-HDMI-3D-OB & -OB-S:	809 g
Weight MX-HDMI-3D-OB-A:	865 g
Output connectors:	HDMI, S/PDIF, Phoenix

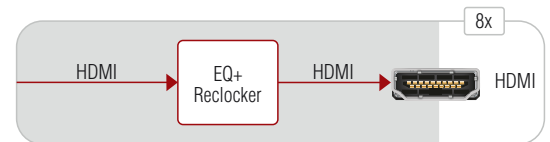
Port Diagram



MX-HDMI-3D-OB-A

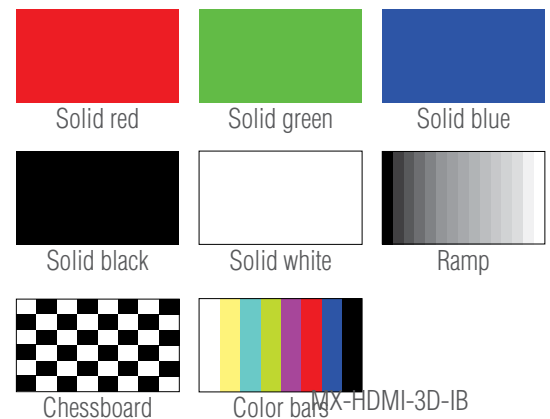


MX-HDMI-3D-OB-S



MX-HDMI-3D-OB

Available Video Patterns



Test pattern generator video formats:

480p, 576p, 720p, 1080p, 1080p deep color