

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



MX-HDMI-3D-IB



MX-HDMI-3D-IB-A



MX-HDMI-3D-IB-S



Part No: 9112 0007, 9112 0008 (A), 9112 0009 (S)

Description:

MX-HDMI-3D-IB provides eight channel HDMI 1.4a inputs with DVI and HDCP compliance supporting all 3D formats as well. The input board is available with audio option 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-IB without the digital or analog audio option can handle HDMI embedded audio as well. Advanced professional functions such as HDCP enable/disable mode, Pixel Accurate Reclocking, Advanced EDID Management and Frame Detector are integrated.

Digital S/PDIF Audio Option:

- S/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
- S/PDIF can be sent over ARC back to the source device

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-IB-A) or digital S/PDIF audio option (MX-HDMI-3D-IB-S) or without audio option (MX-HDMI-3D-IB)
- 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:	-63 .. 0 dB
Gain:	0 .. 24 dB
Balance:	0 .. 100%
Phase invert:	On/Off

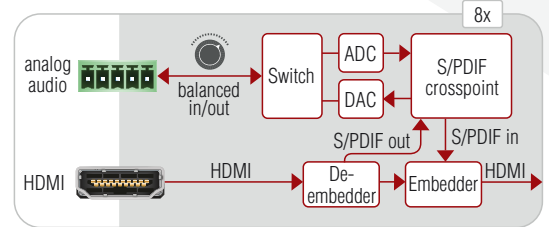
Analog Audio Outputs

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

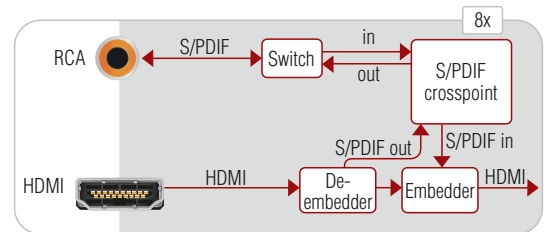
Specifications

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
Input cable equalization:	20 dB
Power consumption (3.3 V) MX-HDMI-3D-IB & -IB-S:	0.79 A (typ.), 1.32 A (max.)
Power consumption (3.3 V) MX-HDMI-3D-IB-A:	1.03 A (typ.), 1.72 A (max.)
Power consumption (5 V) MX-HDMI-3D-IB & -IB-S:	0.56 A (typ.), 0.93 A (max.)
Power consumption (5 V) MX-HDMI-3D-IB-A:	0.56 A (typ.), 0.93 A (max.)
Calculated AC Power (W) MX-HDMI-3D-IB & -IB-S:	7.7 W (typ.), 12.9 W (max.)
Calculated AC Power (W) MX-HDMI-3D-IB-A:	8.9 W (typ.), 14.8 W (max.)
Heat dissipation (BTU/h) MX-HDMI-3D-IB & -IB-S:	28 BTU/h (typ.), 47 BTU/h (max.)
Heat dissipation (BTU/h) MX-HDMI-3D-IB-A:	33 BTU/h (typ.), 54 BTU/h (max.)
Weight MX-HDMI-3D-IB & -IB-S:	809 g
Weight MX-HDMI-3D-IB-A:	865 g
Input connectors:	HDMI, S/PDIF, Phoenix

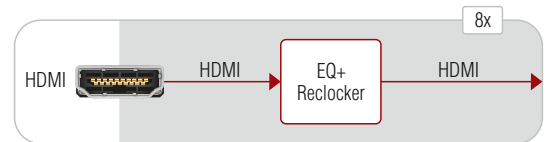
Port Diagram



MX-HDMI-3D-IB-A

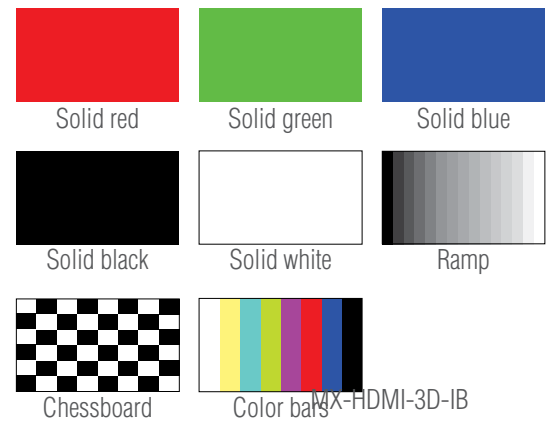


MX-HDMI-3D-IB-S



MX-HDMI-3D-IB

Available Video Patterns



Test pattern generator video formats:

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