

## 3G-SDI Input Board

Part No: 9112 0010

### Features:

- Built-in 8 x SDI to HDMI converter
- SDI multichannel audio de-embedding
- Embeds multichannel SDI or external S/PDIF digital audio onto the HDMI signal
- Converts SDI, HD-SDI and 3G-SDI to DVI or HDMI
- Input cable equalization
- PLL Reclocking
- Auto detects input formats

MX-3GSDI-IB accepts SD-SDI, HD-SDI and 3G-SDI video signals with embedded audio on BNC connectors. Each channel also incorporates an SDI/HD-SDI/3G-SDI to HDMI/DVI conversion for further switching and processing in the router frame. SDI input signals are automatically equalized and reclocked. The card also boasts an additional RCA Phono digital audio input connector accepting AES/EBU or S/PDIF digital audio per channel. Both Stereo PCM and 5.1 AC3 encoded formats are supported and are embedded into the video stream. Each input port contains a mini 16x8 channel audio crosspoint that allows de-embedding of up to 16 PCM audio channels from the SDI signal, switching them and re-embedding up to 8 audio channels onto the HDMI stream. Either SDI audio or S/PDIF audio can be embedded, however converting or mixing them is not possible. The SDI video pixel resolution and scan mode are maintained in the HDMI signal, whilst YUV to RGB and color range settings are also supported.

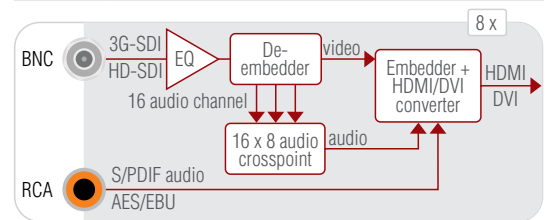


MX-3GSDI-IB

### Specifications

HDCP compliancy:	No
Max Resolution:	1920x1080p 60 Hz YCbCr 4:2:2
Power consumption (3.3 V):	1.5 A (typ.), 2.4 A (max.)
Power consumption (5 V):	2.3 A (typ.), 5.4 A (max.)
Calculated AC Power (W):	23.5 (typ.), 49.9 (max.)
Heat dissipation (BTU/h):	192 BTU/h (typ.), 260 BTU/h (max.)
Weight:	530g
Input connectors:	3G-SDI, S/PDIF

### Port Diagram



### Supported Resolutions

Signal type	Resolution	ColorSpace	Color depth
SD-SDI	720x576i 50Hz	YCbCr 4:2:2	10
	720x480i 60Hz	YCbCr 4:2:2	10
HD-SDI	1280x720p 60Hz	YCbCr 4:2:2	10
	1280x720p 59,94Hz	YCbCr 4:2:2	10
	1280x720p 50Hz	YCbCr 4:2:2	10
	1920x1080i 60Hz	YCbCr 4:2:2	10
	1920x1080i 59,94Hz	YCbCr 4:2:2	10
	1920x1080p 30Hz	YCbCr 4:2:2	10
	1920x1080p 29,97Hz	YCbCr 4:2:2	10
	1920x1080p 25Hz	YCbCr 4:2:2	10
	1920x1080p 24Hz	YCbCr 4:2:2	10
	1920x1080p 23,98Hz	YCbCr 4:2:2	10
Level A	1920x1080p 60Hz	YCbCr 4:2:2	10
	1920x1080p 59,94Hz	YCbCr 4:2:2	10
	1920x1080p 50Hz	YCbCr 4:2:2	10
Level B	1920x1080p 60Hz	YCbCr 4:2:2	10
	1920x1080p 50Hz	YCbCr 4:2:2	10