

25G-8HDMI2-A3-OB

4K HDMI Output Board with Analog Audio

Part No: 9123 0017

Features

- HDMI 1.4 and HDCP 1.4 compliant
- Resolutions up to 4K / UHD (30Hz RGB or YCbCr 4:4:4, 60Hz YCbCr 4:2:0), 1080p@60Hz, 720p/1080i@120Hz
- Bidirectional balanced or unbalanced analog stereo audio ports with 5 pole Phoenix connector
- 3D signal support
- 36-bit Deep Color support
- Available video test patterns
- Submission of EDID information read from the sink to the Advanced EDID Management system
- Pass through of HDMI 1.4 embedded uncompressed LPCM audio and compressed audio (AAC, ATRAC, DTS, DTS ES, DTS HD, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Digital Surround EX, Dolby Digital TrueHD, DST, MPEG1 Layer 1, MPEG1 Layer2, MPEG1 Layer 3, MPEG2, WMA Pro)
- Embedding or de embedding of 2 channel LPCM, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Digital Surround EX, DTS, DTS ES*
- Audio Return Channel support
- CEC support
- Standard compliant output

*See the audio switching matrix for more details.

25G-8HDMI2-A3-OB provides fully transparent HDMI 1.4 connectivity to the latest high-end digital sinks including the Audio Return Channel and 3D functions between the endpoints. Supports resolution up to 4096x2160@30Hz in 4:4:4 mode or 3840x2160@60Hz in 4:2:0 mode. The new 300 MHz board supports the latest 3D formats as well as HD multichannel audio.

25G-8HDMI2-A3-OB has eight HDMI connectors with an additional analog Phoenix audio connector for each HDMI port. Each output is standard compliant and has individual EDID Management.

25G-8HDMI2-A3-OB can de-embed 2-channel LPCM and various IEC 61937 audio streams from the HDMI signal to the Return Audio Layer. It can also embed audio signal from the Forward Audio Layer to the output HDMI signal.

The A3 add-on has bidirectional configurable Phoenix connectors. The digitized audio from the add-on can be embedded either to the output HDMI signal or to the Return Audio Layer. Moreover, 2-channel LPCM audio either from the HDMI signal or the Forward Audio Layer can be routed to the add-on output. Furthermore, the output board can route the ARC audio to the Return Audio Layer.

The audio options of the HDMI output board are software-configurable on a per-port basis.

Supported Media Layers:

- Video layer with embedded audio
- Forward Audio Layer
- Return Audio Layer
- Consumer Electronics Control Layer

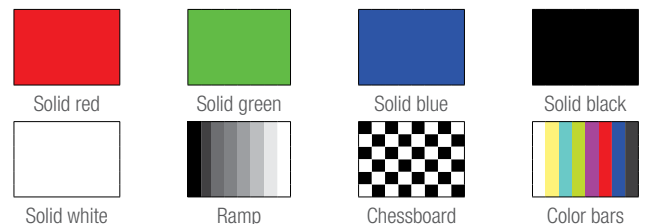


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Specifications

HDCP compliance:	Yes
Max resolutions:	4K / UHD (30Hz RGB or YCbCr 4:4:4, 60Hz YCbCr 4:2:0), 1080p@60Hz, 720p/1080i@120Hz
Supported audio formats:	HDMI audio according to the Audio switching matrix section
3D signal compatibility:	Frame packing, side-by-side, top bottom
Input cable equalization:	30 m for 1080p60Hz, 14 m for 4K@30Hz (tested with 22AWG cable)
Power consumption:	21.4 W (max.)
Heat dissipation:	73 BTU/h (max.)
Video connectors:	8 x HDMI
Audio connectors:	8 x 5-pole Phoenix type

Available Video Patterns:



Test Pattern Generator Video Formats:
480p, 576p, 720p, 1080p, 1080p deep color

Audio Switching Matrix:

		Output		
		HDMI	Analog Audio	Return Audio Layer
Input	HDMI	(All HDMI audio formats) ✓	(2-channel LPCM) ✓	(2-channel LPCM and various IEC 61937 formats*) ✓
	Analog Audio	✓	✗	✓
	Forward Audio Layer	(2-channel LPCM and various IEC 61937 formats*) ✓	(2-channel LPCM) ✓	(2-channel LPCM and various IEC 61937 formats*) ✓
	ARC	✗	(2-channel LPCM) ✓	(2-channel LPCM and various IEC 61937 formats*) ✓
	Audio Test Generator	✓	✓	✓

Note: Simultaneous embedding to and de-embedding from HDMI is not supported.
* Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Digital Surround EX, DTS, DTS ES