25G-8HDMI2-A2-OB

4K HDMI Output Board with Digital Audio

25G-8HDMI2-A2-OB

Part No: 9123 0016

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
- Bi-directional S/PDIF audio ports
- 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-A2-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 300MHz board supports the latest 3D formats as well as HD multichannel audio.

25G-8HDMI2-A2-OB has eight HDMI connectors with an additional digital S/PDIF audio connector for each HDMI port. Each output is standard compliant and has individual EDID Management.

25G-8HDMI2-A2-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 A2 add-on has bidirectional configurable S/PDIF connectors. The 2-channel LPCM and various IEC 61937 audio streams from the add-on can be embedded either into the output HDMI signal or into the Return Audio Layer. Moreover, such audio streams 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
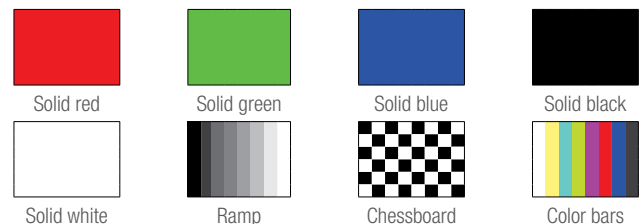- Return Audio Layer
- Consumer Electronics Control Layer

Specifications

HDCP compliance:	Yes
Max resolutions:	4K / UHD (30Hz RGB or YCrCb 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:	14.8 W (max.)
Heat dissipation:	50.5 BTU/h (max.)
Video connectors:	8 x HDMI
Audio connectors:	8 x S/PDIF

Available Video Patterns:

Solid red	Solid green	Solid blue	Solid black

Solid white	Ramp	Chessboard	Color bars

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

Audio Switching Matrix:

		Output		
		HDMI	S/PDIF Audio	Return Audio Layer
Input	HDMI	✔ (All HDMI audio formats)	✔ (2-channel LPCM and various IEC 61937 formats*)	✔ (2-channel LPCM and various IEC 61937 formats*)
	S/PDIF Audio	✔ (2-channel LPCM and various IEC 61937 formats*)	✘	✔
	Forward Audio Layer	✔ (2-channel LPCM and various IEC 61937 formats*)	✔ (2-channel LPCM and various IEC 61937 formats*)	✔ (2-channel LPCM and various IEC 61937 formats*)
	ARC	✘	✔ (2-channel LPCM and various IEC 61937 formats*)	✔ (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