

25G-8DVID2-A2-IB

4K DVI-D Input Board with Digital Audio

Part No: 9122 0048

Features

- HDMI 1.4, DVI 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 breakout for every port
- 3D signal support
- 36-bit Deep Color support
- Static EDID emulation with EDIDs from the Advanced EDID Management system
- Available video test patterns
- 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*
- Pixel Accurate Reclocking
- 30 m input cable equalization at 1080p60Hz on all inputs

*See the audio switching matrix for more details.

25G-8DVID2-A2-IB provides a fully transparent HDMI 1.4 connectivity to the latest high-end digital sources including 3D functions between the endpoints. Supports resolution up to 4096x2160@30Hz. 25G-8DVID2-A2-IB has eight DVI-D connectors with an additional digital S/PDIF audio connector for each DVI-D port. Each input has 30 m input cable equalization and an individual EDID Management.

25G-8DVID2-A2-IB handles embedded audio in the HDMI signal (with capabilities of routing to the 25G audio layers). The S/PDIF input signal can be embedded to the 25G Video layer or sent to the Forward Audio Layer as well.

The A2 add-on has bi-directional configurable S/PDIF connectors. 2-channel LPCM or various IEC 61937 audio formats embedded in the HDMI input or from the Return Audio Layer can be switched to the S/PDIF output. Moreover, such audio streams through the S/PDIF input can be embedded into the HDMI signal or can be routed to the Forward Audio Layer.

The audio options of the DVI-D input board are software-configurable on a per-port basis.

Supported Media Layers:

- Video layer with embedded audio
- Forward Audio Layer
- Return Audio Layer

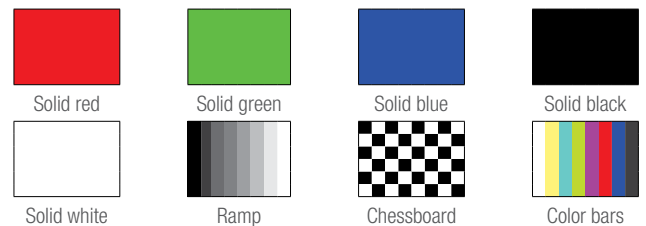


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Specifications

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:	18.5 W (max.)
Heat dissipation:	63.1 BTU/h (max.)
Video connectors:	8 x DVI-D
Audio connectors:	8 x S/PDIF

Available Video Patterns:



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

Audio Switching Matrix:

		Output		
		HDMI	Analog Audio	Forward 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	(IEC 60958-1 and IEC 61937)* ✓	✗	✓
	Return 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*) ✓
	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