25G HYBRID
signal management

visual engineering
LIGHTWARE

25G-8DVID2-K2-IB

4K DVI-D Input Board with KVM

25G-8DVID2-K2-IB

Part No: 9122 0058

Features

- HDMI 1.4, DVI and HDCP 1.4 compliant
- 8 DVI-D input connectors
- Resolutions up to 4K / UHD (30Hz RGB or YCbCr 4:4:4, 60Hz YCbCr 4:2:0), 1080p@60Hz, 720p/1080i@120Hz
- 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 two-channel LPCM, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Digital Surround EX, DTS, DTS ES*
- Pixel Accurate Reclocking
- 30m input cable equalization at 1080p60Hz on all inputs
- USB HID device support

  *See the audio switching matrix for more details.

25G-8DVID2-IB provides 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 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-8DVID2-IB has eight DVI D connectors. Each input has 30m input cable equalization and individual EDID Management.

25G-8DVID2-IB handles embedded audio in the HDMI signal and can de embed 2-channel LPCM and various IEC 61937 audio streams from it to the Forward Audio Layer. Embedding of such streams from the Return Audio Layer to the HDMI signal is also supported. All audio options of the DVI D input board are software configurable on a per port basis. The board also provides connectivity options for computers with USB HID peripherals through its USB-B connectors on the K2 add-on. Each input port can handle two HID devices.

Supported Media Layers:

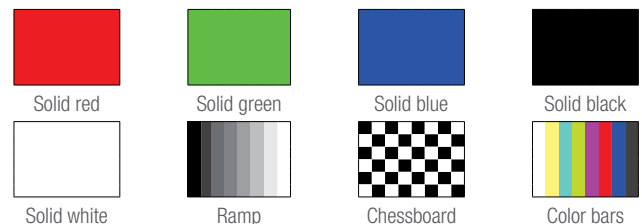- Video layer with embedded audio
- Forward Audio Layer
- USB KVM Layer

Specifications

HDCP compliance:	Yes
Max resolutions:	4K / UHD (30Hz RGB or YCrCb 4:4:4, 60Hz YCrCb 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:	N/A
Heat dissipation:	N/A
Video connectors:	8 x DVI-D
USB connectors:	8 x USB B

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	Forward Audio Layer
Input	HDMI	✔ (All HDMI audio formats)	✔ (2-channel LPCM and various IEC 61937 formats*)
	Return Audio Layer	✔ (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