25G-8HDMI2-A3K2-IB

4K HDMI Input Board with Analog Audio and KVM

25G-8HDMI2-A3K2-IB

Part No: 9122 0066

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 configurable analog stereo port with 5-pole Phoenix connector
- 3D signal support
- 36-bit Deep Color support
- Available video test patterns
- Static EDID emulation with EDIDs from 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*
- Pixel Accurate Reclocking
- 30m input cable equalization on all inputs
- Audio Return Channel support
- CEC support
- USB HID device support
  *See the audio switching matrix for more details.

25G-8HDMI2-A3-IB provides fully transparent HDMI 1.4 connectivity to the latest high-end digital sources including 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-A3-IB has eight HDMI connectors with an additional 5-pole analog Phoenix audio connector for each HDMI port. Each input has 30m input cable equalization and an individual EDID Management.

25G-8HDMI2-A3-IB handles embedded audio in the HDMI signal (with capabilities of routing to the 25G audio layers).

The A3 add-on has bidirectional and configurable Phoenix connectors. 2-channel LPCM audio embedded in the HDMI input or from the Return Audio Layer can be converted to an analog signal and switched to the Phoenix output. Moreover, the digitized analog audio through the analog input connector can be embedded to the HDMI signal or can be routed to the Forward Audio Layer.

The audio options of the HDMI 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
- Return Audio Layer
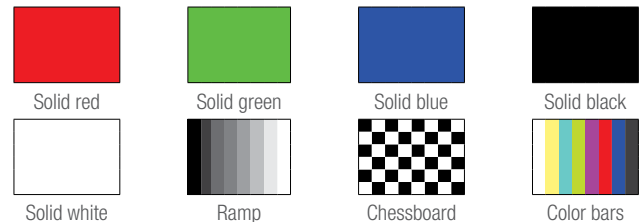- Consumer Electronics Control Layer
- USB KVM Layer

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:	N/A
Calculated AC power:	48 W (max.), 28.8 W (typ.)
Heat dissipation:	N/A
Video connectors:	8 x HDMI
Audio connectors:	8 x 5-pole Phoenix type
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	Analog Audio	Forward Audio Layer	ARC
Input	HDMI	✔ (All HDMI audio formats)	✔ (2-channel LPCM)	✔ (2-channel LPCM and various IEC 61937 formats*)	✗
	Analog Audio	✔	✗	✔	✔
	Return Audio Layer	✔ (2-channel LPCM and various IEC 61937 formats*)	✔ (2-channel LPCM)	✔ (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