

## 25G-8HDMI2-A2-IB

### 4K HDMI Input Board with Digital Audio

Part No: 9122 0028

#### 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
- S/PDIF breakout for every port
- 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

\*See the audio switching matrix for more details.

25G-8HDMI2-A2-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-A2-IB has eight HDMI connectors with an additional digital S/PDIF audio connector for each HDMI port. Each input has 30m input cable equalization and an individual EDID Management.

25G-8HDMI2-A2-IB handles embedded audio in the HDMI signal (with capabilities of routing to the 25G audio layers).

The A2 add-on has bi-directional configurable S/PDIF connectors. 2-channel LPCM or various IEC 61937 audio streams 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 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.

#### Supported Media Layers:

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

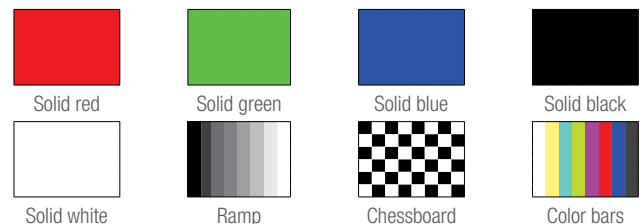


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#### Specifications

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:	18.7 W (max.)
Heat dissipation:	63.8 BTU/h (max.)
Video connectors:	8 x HDMI
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	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