

VLHA-EMR

HDMI 2.0 Audio Embedder18Gbps



User Manual

VER 1.02

Thank you for purchasing this product

Please read these instructions carefully for optimum performance and safety before connecting, operating, or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended This product contains sensitive electrical components that electrical spikes may damage, surges, electric shock, lightning strikes, etc. The use of surge protection systems is highly recommended to protect and extend the life of your equipment.
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1. Introduction

The HDMI 18Gbps Audio Embedder could embed audio signals from digital optical or analog stereo Line audio to HDMI output. Further, both input and output HDMI support video resolution up to 4K2K@50/60Hz (YUV444). It supports 10bits HDR (High Dynamic Range) pass-through and HDMI high resolution digital audio formats bypass, LPCM 2CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos, and DTS-HD Master Audio, and audio sampling rate up to 192 kHz. HDCP 2.2 and CEC bypass are supported.

2. Features

- ☆ Embeds multi-channel optical (SPDIF) or Line analog audio to HDMI output
- ☆ Optical audio supports LPCM 2CH, Dolby Digital 2/ 5.1CH, DTS 2/5.1CH
- ☆ Analog audio supports PCM2.0
- ☆ Video resolutions up to 4K2K@50/60Hz (YUV444)
- ☆ Supports HDMI High Bit Rate(HBR) audio pass-through
- ☆ 10bits HDR (High Dynamic Range) pass-through
- ☆ Supports CEC bypass

3. Package Contents

- ① 1 x HDMI 18Gbps Audio Embedder
- ② 1 x 5V/1A Power Adapter
- 3 1 x User Manual

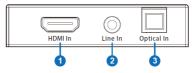
4. Specifications

Technical				
	LIBANI O OL			
HDMI Compliance	HDMI 2.0b			
	HDCP 2.2 and HDCP 1.4			
Video Bandwidth	18Gbps			
Video Resolutions	up to 4K2K@50/60Hz(YUV4:4:4),4K2K@			
	30Hz,1080P@120Hz and 1080P3D@60Hz			
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:0			
Color Depth	10-bit, 12-bit			
	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1,			
HDMI Audio Formats	Dolby Digital+, Dolby TrueHD, DTS-HD			
(Pass-through)	Master Audio, Dolby Atmos, DTS:X			
Optical Audio	LPCM 2CH, Dolby Digital 2/5.1CH,			
Formats	DTS 2/5.1CH			
L/R Audio Formats	Analog Stereo 2CH			
	Human body model — ±8kV (air-gap			
ESD Protection	discharge) & ±4kV (contact discharge)			
Connections				
	1x HDMI Type A [19-pin female]			
Inputs	1x Line In [3.5mm Stereo Mini-jack]			
	1x Optical In [S/PDIF]			
Outputs	1x HDMI Type A [19-pin female]			
Mechanical				
Housing	Metal Enclosure			
Color	Black			
Dimensions	73.5mm [W] x 60.7mm [D] x 17mm [H]			
Weight	122g			
	Input: AC100 - 240V 50/60Hz			
Power Supply	Output: DC 5V/1A			
	(US/EU standards, CE/FCC/UL certified)			

Power Consumption	1.25W
Operation Temperature	32 - 104°F / 0 - 40°C
Storage temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (Non-Condensation)

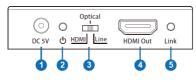
5. Operation Controls and Functions

5.1 Front Panel



Number	Name	Function description
1		Connect to HDMI source device, such as DVD player or Set-top box
2	Line In	Analog audio input port.
3	Optical In	Optical audio input port.

5.2 Rear Panel



N	lumber	Name	Function description
	1	DC 5V	Connect 5V/1A adapter to AC wall outlet for power supply.
	2	Power LED	System power indicator.
	3	HDMI/ Optical/Line	Users can select input audio format according to HDMI, Optical, or Line. • When the dial switch is dialed to HDMI, the HDMI Out port outputs audio from HDMI in port input. • When the dial switch is dialed to Optical, the HDMI Out port outputs audio from the Optical in port input. • When the dial switch is dialed to Line, the HDMI Out port outputs audio from the Line in port input.
	4	HDMI Out	Connect to HDMI display device such as TV/Projector.
	5	Link LED	The LED will illuminate when detected HDMI output signal.

6. Application Example

