



Attero Tech by QSC

unHX2D

Dante™/AES67 enabled HDMI audio embedder/de-embedder

Features

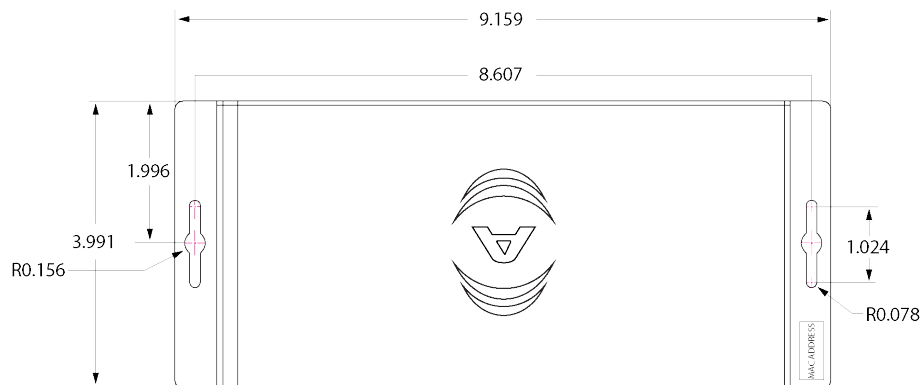
- HDMI 2.0 compliant (HDCP 2.2) pass-through support for video resolutions up to 4K60 4:4:4
- Q-SYS control plugin enables easy integration into the Q-SYS Ecosystem
- Front panel indication of Dante status, HDMI connectivity and digital audio format
- Software-manageable EDID settings
- 400 ms of adjustable lip sync delay on the Dante audio output path
- Software configuration is supported in unIFY Control Panel software



Applications: Video Teleconferencing • Conference Rooms • Classrooms • Convention Center Presentation Rooms

The unHX2D is a Dante enabled HDMI de-embedder/embedder designed to bridge two-channel PCM HDMI audio to/from a Dante/AES67 audio network. In addition, the unHX2D includes two line level analog inputs and outputs that can be independently bridged to/from a Dante/AES67 audio network. An adjustable audio delay buffer is included on the Dante™ output for audio and video lip sync. The unHX2D features flexible audio routing between system input sources and outputs, and facilitates bridging audio from either video sources or monitors to a Dante/AES67 network. The HDMI output operates as a pass thru repeater of HDMI input video source.

Dimensions:



unHX2D Details

unHX2D Specifications

Analog Audio Inputs

Input type	Balanced 3-pin line level
Input sensitivity	-10 dBV (consumer) or +4 dBu (professional), software-selectable
Input impedance	10k Ω
Maximum input levels	+20 dBu (+/- 0.5 dB) @ +4 dBu input sensitivity +10 dBV (+/- 0.5 dB) @ -10 dBV input sensitivity
THD+N	< 0.005 %
Dynamic range	> 105 dB

Analog Audio Outputs

Output type	Balanced 3-pin line level
Output impedance	-10 dBV (consumer) or +4 dBu (Pro) software selectable
Maximum output level	10 k Ω
THD+N	+20 dBu (+/- 0.5 dB) @ +4 dBu Input Sensitivity +10 dBV (+/- 0.5 dB) @ -10 dBV input sensitivity

S/PDIF Audio Inputs

Supported formats	S/PDIF (IEC-60598) 2ch PCM, 24 bit
Supported sample rates	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 192 kHz
THD+N	< 0.005 %

S/PDIF Audio Output (Mirrors HDMI Input Audio)

Supported formats	S/PDIF (IEC-60598) 2ch PCM, 24 bit compressed multi-channel in Pass Through mode
Supported sample rates	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 192 kHz
THD+N	< 0.005 %

HDMI Audio Inputs/Outputs

Supported formats	2-CH PCM, 24 bit
Supported sample rates	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 192 kHz
THD+N	< 0.005 %



QSC

1675 MacArthur Boulevard • Costa Mesa, CA 92626 • Ph: 800/854-4079 or 714/957-7100 • Fax: 714/754-6174

© 2020 QSC, LLC all rights reserved. QSC and the QSC logo are registered trademarks of QSC, LLC in the U.S. Patent and Trademark office and other countries. All other trademarks are the property of their respective owners. Patents may apply or be pending.

unHX2D Spec Sheet 03/16/2020



unHX2D Details

unHX2D Specifications

Video Specifications		
HDCP	S/PDIF (IEC-60598) 2-CH PCM, 24 bit compressed multi-channel in Pass Through mode	
HDMI	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 192 kHz	
Supported video formats	Resolution	Frame Rate (Hz)
	4096 x 2160p	23.98, 24, 25, 29.97, 30, 50, 59.97, 60
	3840 x 2160 (UHD)	23.98, 24, 25, 29.97, 30, 50, 59.97, 60
	2048 x 1080p, 1080p	23.98, 24, 25, 29.97, 30, 50, 59.94, 60
	1080i, 720p, 576p, 576i, 480p, 480i	50, 50.94, 60
	3D support	
Color space	YUV, RGB	
Chroma subsampling	4:4:4, 4:2:2, 4:2:0	
Max color depth	48 bit	
EDID	SW configurable	
Hot plug detect	SW configurable	
Bandwidth	18 Gbps (600 MHz)	
Connectors	HDMI Type A	

Dante Network	
Physical layer	Ethernet
Connector	Single RJ-45
Cable quality	CAT-5e or higher
Transmission speed	100 Mbps
Supported sample rates	48 kHz
Minimum Dante network latency	1 ms

Power Requirements	
PoE	802.3af PoE PD compliant
Power consumption	< 7.6 W max

General	
Dimensions (HWD)	1 x 9.2 x 4 in (25.4 x 233.7 x 101.6 mm)
Weight	1.3 lb (0.6 kg)
Product compliance	CC CFR 47 Parts 15B Class A, EN55011 ICES-003 CE (EN55022 / EN55024) RoHS REACH

