



## Attero Tech by QSC

### unHX2D

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

### Features

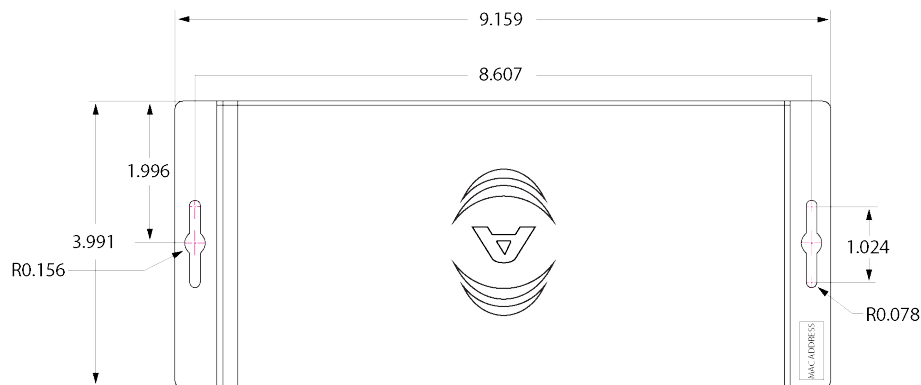
- HDMI 2.0 compliant (HDCP 2.2) pass-through support for video resolutions up to 4K60 4:4:4
- Q-SYS control plugin enables easy integration into the Q-SYS Ecosystem
- Front panel indication of Dante status, HDMI connectivity and digital audio format
- Software-manageable EDID settings
- 400 ms of adjustable 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 $\Omega$
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 $\Omega$
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

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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	<b>Resolution</b>	
	<b>Frame Rate (Hz)</b>	
	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

