

unHX2D

DANTE-ENABLED HDMI AUDIO DE-EMBEDDER/EMBEDDER

Preliminary—Available in Q2 2017

The unHX2D is a Dante™ enabled HDMI de-embedder/embedder designed to bridge 2-channel PCM HDMI audio to/from a Dante audio network. In addition, the unHX2D includes two line level analog inputs and outputs that can be independently bridged to/from a Dante 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 network. The HDMI output operates as a pass thru repeater of HDMI input video source. The unHX2D also includes installer adjustable EDID management settings via software.



FEATURES AND BENEFITS

- HDMI 2.0 compliant (HDCP 2.2) pass-through support for up to 4K/60/4:4:4 video, 2 channel PCM audio
- Highly configurable routing between system inputs and outputs allow PCM HDMI audio from both HDMI sources and monitors to be bridged over the Dante network (see the audio routing matrix description on the page below)
- Simple network control protocol for integration with 3rd party control system
 - ⇒ Front panel indication of Dante status, HDMI connectivity and digital audio format.
 - ⇒ Installer adjustable EDID management settings via software
 - ⇒ 170ms of adjustable lip sync delay on the Dante TX 1-2 audio output path
 - ⇒ Software configuration is supported in Atterotech unIFY Control Panel (PC/Mac)

Dante is a trademark of Audinate Pty. Ltd.

APPLICATIONS

- Conference rooms/meeting centers
- Control rooms
- Video teleconferencing
- Convention center presentation rooms
- Classrooms and instructional facilities

ABOUT ATTEROTECH

Atterotech is a leading provider of networked audio and connectivity interfaces. These innovative products make it cost effective for audio installations to include high performance connectivity. Atterotech is headquartered in Fort Wayne, Indiana USA - where all of our products are designed and built. Contact us at:

260.496.9668

www.atterotech.com

unHX2D Front Panel, Rear Panel, and Audio Routing



		OUTPUTS				
		HDMI Out (2CH PCM)	S/PDIF Out (Mirrors HDMI Out)	Dante TX 1-2	Dante TX 3-4	Analog Out
I N P U T S	HDMI In (2CH PCM)	●	●	●		●
	S/PDIF In (2CH PCM)			●		
	Dante RX 1-2	●	●			
	Dante RX 3-4					●
	Analog In	●	●		●	

SPECIFICATIONS

Status Indicators: System/Dante: Power, Sys, Error, Sync

HDMI: In and Out (Active or Error), **Digital Source** (HDMI or S/PDIF), and **Digital Format** (PCM or Compressed)

HDMI In and Out: HDMI 2.0 compliant video pass-through for up to 4K/60/4:4:4 video. HDCP 2.2 compliant

Depluggable Input Type: Balanced 3-pin line level, with software selectable sensitivity of -10dBV (consumer) or $+4\text{dBu}$ (pro)

Depluggable Output Type: Balanced 3-pin line level, with output level control from 0dB to -60dB , software controlled. $+20\text{dBu}$ maximum output level

S/PDIF Input and Output: Optical TOS Link

System THD: Less than .05%

Certifications: FCC 47CFR Parts 15B and 18 (Class A), EN 55011, ICES-003, CE (EN55022 Class A and EN55024 Class A)

PoE Class: Class 0 802.3af PoE PD compliant

Dimensions: 9.19" W x 1.06" H x 4.0" D

Operating Temperature: 0°C - 40°C

ARCHITECTS & ENGINEERS SPECS

The interface shall accept HDMI video signals in pass-through mode, compliant with Revision 2.0 of the HDMI specification and Revision 2.2 of the HDCP specification. Two channel PCM audio shall be capable of being embedded in the HDMI output from the HDMI input, analog line level inputs, or two channels from a Dante audio network. De-embedded two channel PCM audio from the HDMI input shall be capable of being bridged onto 2 channels on a Dante network or output on the S/PDIF TOS Link output. The analog line level output can render audio from two channel of a Dante network. Analog line level output is software controllable over a 60dB range in 1dB steps.

The device shall have network real-time monitoring and control of analog input sensitivity, output level, audio matrix routing, lip sync delay, and EDID management settings

The interface shall be compatible with Atterotech unIFY software for flexible control and monitoring in system applications. The interface shall be compliant with the RoHS directive. The interface unit shall be compliant with the EMI/EMC requirements for FCC and CE.

The interface shall be the Atterotech unHX2D.