

unDAES-O

DANTE TO AES3 BRIDGE

Available Q1, 2015

The unDAES-O is a small, cost-effective interface that bridges a Dante network directly to AES3 digital audio outputs, keeping the audio signals in the digital domain. The unDAES-O supports four AES3 output channels at a 44.1/48kHz sampling rate, or two channels at 88.2/96kHz. The unDAES-O has two network connections to allow Dante Daisy Chaining. Dante Daisy Chaining further simplifies system infrastructure wiring by allowing multiple unDAES-Os to use a single CAT 5 home run connection to a network switch. Power can also be daisy chained. The unDAES-O is powered by either external +24VDC, any PoE network switch, or from the Power Link Output connector of other Attero Tech devices that support Power Link.

FEATURES AND BENEFITS

- Balanced, transformer isolated professional AES3 digital outputs on XLR connectors
- Supports up to 4 separate Dante audio channels bridged to AES3 at 44.1/48kHz sampling rates (24 bits), or two Dante channels at 88.2/96kHz (24 bits).
- PoE powered to work with any compliant 802.3af PoE network switch or mid-span injector, external +24VDC supply, or from the Power Link Output connector of other Attero Tech devices that support Power Link for maximum flexibility
- Dante Daisy Chaining allows multiple unDAES-Os, as well as other Attero Tech daisy chain enabled devices, to be connected over a single home-run to the Ethernet switch
- SYS, SYNC, and SAMPLE RATE LEDs on the front panel to indicate audio and Dante network status



APPLICATIONS

AES3 outputs for:

- Delivering the Dante network to devices, like powered loudspeakers, which have AES3 inputs. This keeps the audio in the digital domain all the way to the end device.
- Allowing audio processing equipment with AES3 inputs to receive digital audio directly from the Dante network in studio and production environments
- Supplying AES3 digital audio to one or more AES3-enabled amplifiers in an amp rack

ABOUT ATTERO TECH

Attero Tech is a leading provider of both Dante and CobraNet® audio interfaces. These innovative networked audio products make it cost effective for audio installations to include high performance networking. Attero Tech is headquartered in Fort Wayne, Indiana. Contact us at:

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unDAES-O Front and Rear Panel Description

Front Panel:

Power LED - Indicates the unDAES-O is powered on.

Sys LED - Indicates the operational status of the unDAES-O

Rate LED - Indicates the output sample rate of the AES3 digital audio data stream

Sync LED - Indicates the network status of the unDAES-O



Rear Panel:

XLR Connectors - Balanced, transformer isolated AES3 outputs. These deliver four separate channels at 48kHz, or two separate channels (duplicated on both XLR outputs) at 96kHz.

RJ-45 Ethernet Connectors - The “PoE + Data” RJ-45 connects to an Ethernet switch (PoE or non-PoE) and provides Dante connectivity and control. The “Data” RJ-45 is used for daisy chaining another Dante device.

24VDC Input - Allows the unDAES-O to be powered externally if a PoE Ethernet switch is not used.

Power Link - Allows DC power to be daisy chained to/from other Power Link compatible Atterotech devices.

SPECIFICATIONS

Power LED: Indicates the unit is powered on.

Sys LED: Indicates that the unit is either initializing or ready for use

Sync LED: Indicates PTP timing synchronization and master/slave status

Rate LED: Indicates the current audio sample rate. LED off is 44.1kHz, green is 48kHz, amber is 88.2kHz, and red is 96kHz

XLR Connectors: Non-locking 3-pin, balanced and transformer isolated

Audio Channels: Four channels from Dante to AES3 at 44.1/48kHz, or two channels (replicated on both XLRs) at 88.2/96kHz

Digital Audio Sample Rates/Bit Depth: 44.1/48/88.2/96kHz, all at 24 bits

Frequency Response: 20Hz - 20kHz, +/-1dB

PoE Class: Class 0 802.3af PoE PD compliant

Certifications: FCC Part 15 Class A, CE (EN 55022 Class A)

Dimensions: 7.31” W x 1.50” H x 3.63” D

Operating Temperature: 0° C - 40° C

ARCHITECTS & ENGINEERS SPECS

The Dante to AES3 bridge shall provide four channels of AES3 digital audio from a Dante network at 44.1kHz/48kHz sampling rate, or two channels of AES3 digital audio at 88.2kHz/96kHz sampling rate. The unit shall provide a Power LED, a Sys LED, a Sync LED, and a Rate LED on the front panel to indicate system status and audio sampling rate. The unit shall provide two balanced, transformer isolated AES3 outputs on XLR connectors. A rear panel Dante interface shall receive power over the Ethernet cable from a compliant 802.3af PoE network device, an external +24VDC power supply, or another Power Link capable device. A second rear panel Dante interface shall provide for daisy chain of the Dante network.

The unit shall support 44.1 kHz, 48kHz, 88.2kHz and 96kHz sample rates at up to 24 bits.

The Dante interface shall be compliant with the RoHS directive. The Dante interface unit shall be compliant with the EMI/EMC requirements for FCC (Part 15 Class A) and CE (EN 55022 Class A).

The Dante interface shall be the Atterotech unDAES-O.