

HDMI to Dante® 2CH Network Audio Encoder

Convert Any HDMI Source into a Dante/AES67 Network — No Analog Stage, No Signal Loss



Eliminate the multi-device workaround of chaining an HDMI extractor into an analog Dante encoder. The KanexPro AUD-DTE-HDMI converts HDMI-embedded audio directly into Dante 2-channel digital audio in a single compact adapter — keeping the signal fully digital from HDMI source to Dante destination with no analog stage and no conversion loss.

Built on the Dante® Ultimo 2×2 chipset, it accepts any HDMI™ 2.0b source at up to 192kHz/24-bit and delivers Dante® output at 44.1/48/88.2/96kHz with configurable 1/2/5ms latency and full AES67 interoperability. Powered by PoE (802.3af Class 0) or USB-C, it installs anywhere without dedicated power infrastructure.

Surge Protection Recommended — This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, or lightning strikes. Use of surge protection systems is highly recommended.

TABLE OF CONTENTS

1. Features	1
2. Package Contents	2
3. Specifications	2
4. Introduction	3
5. Panel descriptions	3
6. API Commands	4
7. FAQ	5
8. Trademarks	5
9. Application Example	5
10. Troubleshooting	6
11. Installation FAQ	6
12. Integration FAQ	6

1. Features

- ✓ Converts 2-channel PCM HDMI™ audio to Dante® digital audio — fully digital, zero analog conversion loss
- ✓ HDMI™ 2.0b input accepts PCM 2CH at 32kHz–192kHz/24-bit from any HDMI™ source (laptop, camera, player)
- ✓ Dante® output supports 44.1 / 48 / 88.2 / 96kHz @ 24-bit with full AES67 cross-vendor interoperability
- ✓ Configurable Dante® latency — 1ms for lip-sync-critical presentations, 5ms for network stability
- ✓ Powered via PoE (IEEE 802.3af Class 0) or USB-C 5V — single-cable install with no dedicated power supply
- ✓ Dante® Ultimo 2×2 chipset — SNR >130dB, THD+N <0.01%, frequency response 20Hz–20kHz (±0dB)
- ✓ EDID management via API — Internal (4K60/PCM 2CH), User Defined 1, User Defined 2
- ✓ API control via USB-C virtual RS-232 — EDID programming, firmware update, reboot, factory reset
- ✓ Compact 115×40×28mm, 90g enclosure — installs behind displays, on rack shelves, or on desks



2. Package Contents

- ✓ 1× Dante® 2CH HDMI™ Input Adapter
- ✓ 2× Hook & Loop

3. Specifications

SPECIFICATION		
TECHNICAL		
	Input	Two-channel HDMI™ audio
	Output	Dante® 2CH digital audio
	Control Method	Dante® Controller
	Network Bandwidth	100Mbps
	HDMI™ Compliance	HDMI™ 2.0b
	HDCP Compliance	HDCP 2.3
	Video Bandwidth	18Gbps
	Color Depth	8/10/12-bit
	Color Space	RGB, YCbCr 4:4:4 / 4:2:2 / 4:2:0
	HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
	Input Video Resolutions	All resolutions as specified in HDMI™ 2.0b
	HDMI™ Audio IN	PCM 2CH, 32kHz–192kHz @ 16/24-bit
	Dante® Audio OUT	PCM 2CH, 44.1 / 48 / 88.2 / 96kHz @ 16/24-bit
	Dante® Latency	1 / 2 / 5ms (configurable via Dante® Controller)
	AES67	Supported
	Transmission Distance	Up to 100m / 328ft (CAT6 / CAT6A / CAT7)
	Audio Latency	<1ms
	Frequency Response	20Hz–20kHz (±0dB)
	Signal-to-Noise Ratio	>130dB @ 0dBu, 1kHz A-weighted
	Dynamic Range	>130dB @ 0dBu, 1kHz A-weighted
	THD+N	<0.01% at +4dBu, 1kHz
	ESD Protection	IEC 61000-4-2: ±8kV (air-gap) & ±4kV (contact)
CONNECTION		
	HDMI™ IN	1× HDMI™ Type A [19-pin female]
	Dante® / PoE	1× RJ45 connector (PoE IEEE 802.3af Class 0)
	Power / API	1× USB-C port [5V/500mA power input, MCU FW update, API control]
	Reset	1× Reset button [Dante® setting reset]
	Indicator	1× HDMI™ LED [Green — solid: active signal; flashing: booting]
MECHANICAL		



continued

Housing	Plastic enclosure, Black
Dimensions	115mm (W) × 40mm (D) × 28mm (H)
Weight	90g
Power Supply	USB-C: 5V/500mA • PoE: IEEE 802.3af Class 0
Power Consumption	1.8W (max)
Operating Temp	32°F–104°F / 0°C–40°C
Storage Temp	-4°F–140°F / -20°C–60°C
Operating Humidity	20%–80% RH (non-condensing)
Storage Humidity	10%–90% RH (non-condensing)

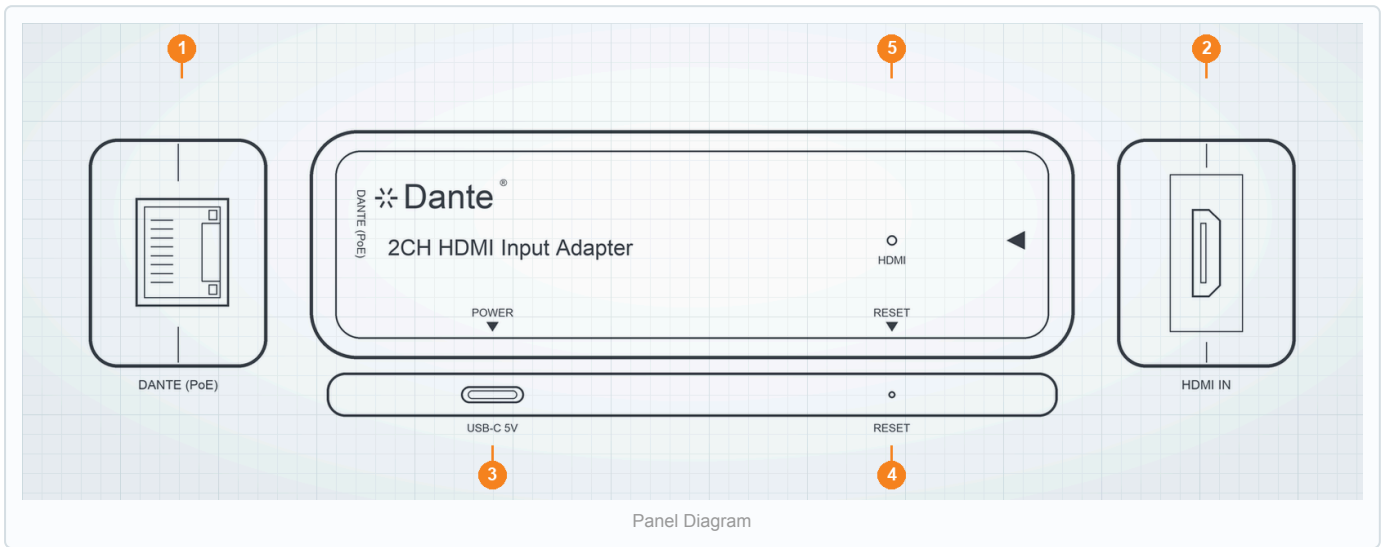
4. Introduction

The KanexPro AUD-DTE-HDMI is an audio transmitter built on the Dante® Ultimo 2×2 platform. It takes the two-channel PCM audio carried in an HDMI™ signal, converts it to Dante® 2-channel digital audio and sends it across your network without loss. It supports sample-rate conversion, and the signal stays digital the whole way, with no analog conversion stage. You can power it over USB-C or PoE. It is plug-and-play and suits recording studios, live events, conference rooms, classrooms, broadcast facilities and houses of worship.

Please read these instructions before you connect, operate or adjust the product.

Surge protection recommended. This product contains sensitive electronic components. A surge protector will help protect your equipment and extend its life.

5. Panel descriptions



The manual does not say which connectors are on the front and which are on the rear. It documents them all in one section, so they are listed here in one table in the manual's own order and numbering.



No.	Name	Description
1	DANTE (RJ45, PoE)	This is the Dante® 2-channel digital audio output. Connect it to your network switch with an RJ45 cable. The port takes PoE (IEEE 802.3af Class 0) to power the unit. Once the link is up, the green LINK LED stays on, and the yellow DATA LED flashes while data is moving.
2	HDMI™ IN (Type A, 19-pin)	Connect your HDMI™ source here: a laptop, PC, media player, set-top box, Blu-ray player or similar. The adapter takes the PCM 2-channel audio out of the HDMI™ stream and sends it over Dante®. Video does not pass through this unit.
3	POWER (USB-C)	This port does three jobs. It takes power from a 5V/500 mA USB-C supply. It is the MCU firmware update port. It is also the API control port: connect it to a PC with a USB-C cable to send serial API commands or upload custom EDID data.
4	RESET Button	Press this to return the Dante® network settings to factory defaults. It resets only the Dante® settings. To reset the whole device, send the <code>set reset</code> command over the USB-C serial port.
①	HDMI™ LED (GREEN)	A steady light means the unit sees active HDMI™ audio from the connected source. A flashing light means the unit is starting up.

6. API Commands

Connect the POWER (USB-C) port to a PC and open a serial terminal program. Set it to 115200 baud, 8 data bits, 1 stop bit and no parity.

COMMAND	FUNCTION	FEEDBACK / NOTES
<code>?</code>	List all commands	Returns the command list
<code>help</code>	List all commands	Returns the command list
<code>get fw version</code>	Get firmware version	For example: MCU: V1.00.01
<code>get status</code>	Get system status	Returns input cable, resolution, color space, audio format, HDCP and EDID status
<code>set edid x</code>	Set the HDMI input EDID (x = 0, 1, 2)	0: Internal (4K60, PCM 2CH); 1: User Defined 1; 2: User Defined 2
<code>get edid</code>	Get the current EDID selection	Returns the current EDID index and name
<code>set user edid x <y></code>	Upload a custom EDID (x = 0, 1, 2; y = 256 bytes)	x = 0 writes both user slots; x = 1 or 2 writes that slot only
<code>get edid data x</code>	Read EDID data (x = 0, 1, 2)	Returns a 256-byte EDID hex string
<code>set hotplug</code>	Toggle the HDMI hotplug signal	Holds hotplug low for 1 second, then high, which makes the source read the EDID again



continued

COMMAND	FUNCTION	FEEDBACK / NOTES
<code>set reboot</code>	Reboot the device	The system restarts and reports its MCU version on boot
<code>set reset</code>	Reset to factory defaults	Asks you to confirm: type <code>Yes</code>

7. FAQ

Does the HDMI video pass through to a display? No. The AUD-DTE-HDMI takes the audio only. If the source also needs to feed a display, put a KanexPro HDMI splitter ahead of the adapter.

What HDMI audio formats are supported? PCM 2-channel audio from 32 kHz to 192 kHz, at 16 or 24-bit. Your HDMI™ source must output PCM 2-channel audio. Compressed formats such as Dolby and DTS are not supported.

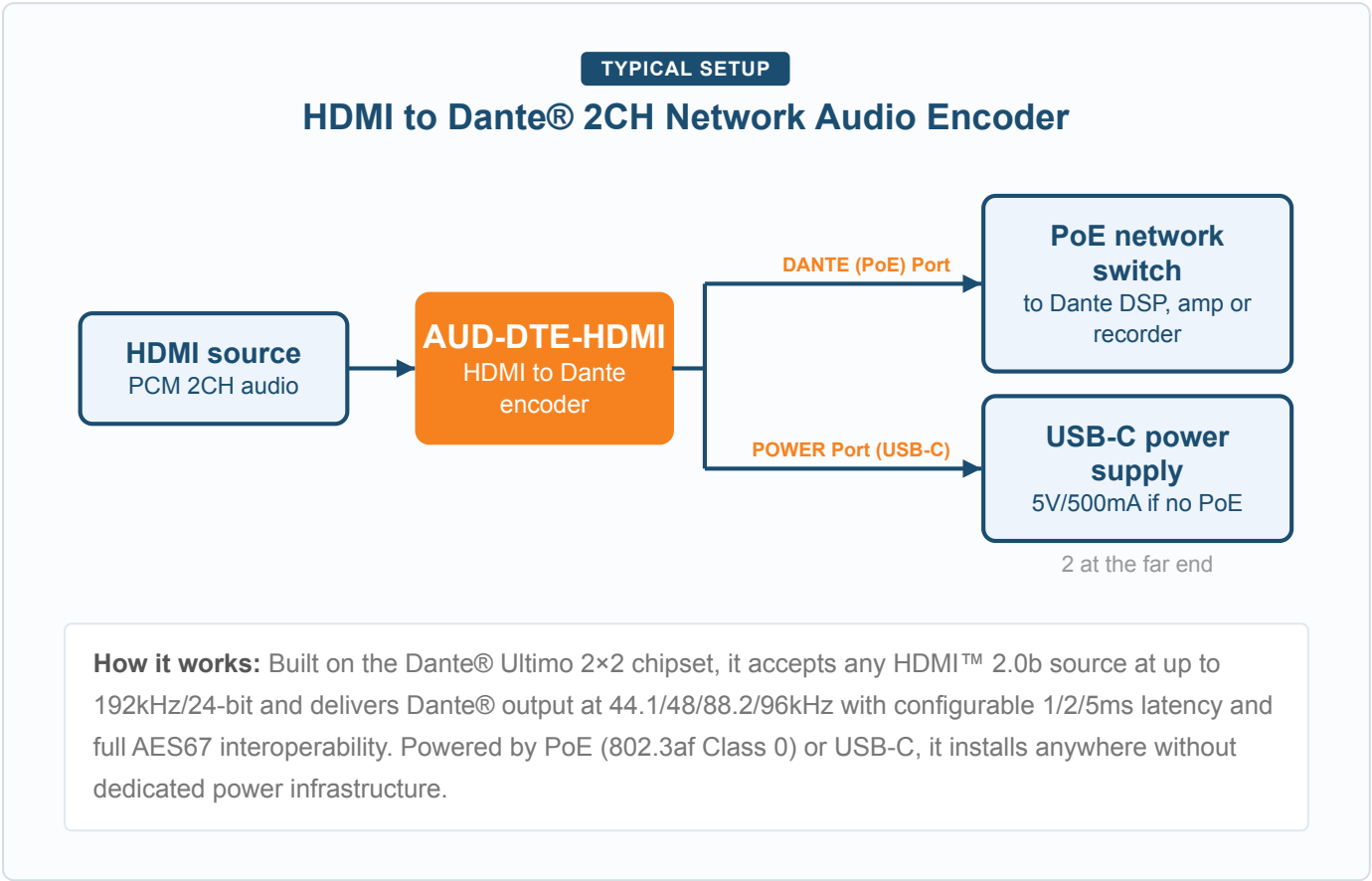
Can it be powered without a PoE switch? Yes. Connect any 5V/500 mA USB power source to the USB-C POWER port. A standard USB wall adapter or a powered USB port is enough.

Is AES67 interoperability automatic? No. You turn on AES67 RTP mode in Dante® Controller, under the device's AES67 settings. Once it is on, the device transmits and receives using AES67 RTP, so it can work with AES67 endpoints that are not Dante®.

8. Trademarks

Dante® is a registered trademark of Audinate Pty Ltd. HDMI™ and the HDMI logo are trademarks of HDMI Licensing Administrator, Inc. All other trademarks are the property of their respective owners.

9. Application Example



10. Troubleshooting

Q: The AUD-DTE-HDMI does not appear in Dante Controller - what should I check?

A: First check the RJ45 port: the green LINK LED should be on and the yellow DATA LED flashing. If they are not, check the cable and confirm the switch port supplies IEEE 802.3af PoE, or power the unit from 5V/500mA on USB-C. If the HDMI LED is flashing, the unit is still booting, so wait for it to finish. Then make sure the PC running Dante Controller is on the same network as the unit. If the Dante network settings have been changed, press RESET to restore their defaults.

Q: None of the LEDs light up - what should I check?

A: The unit has no power. Confirm the switch port provides PoE to IEEE 802.3af Class 0, or connect a 5V/500mA supply to the USB-C port.

Q: Audio stopped after a custom EDID was uploaded - how do I get back to a working setting?

A: Over the USB-C serial API, send get edid to see which EDID is active. Then send set edid 0 to go back to the internal EDID, which requests PCM 2CH at up to 4K60. Send set hotplug so the source reads the EDID again, and confirm the source is set to output PCM 2-channel audio.

Q: The serial terminal shows no response from the AUD-DTE-HDMI - what should I check?

A: Make sure the USB-C cable goes into the unit's USB-C port and that the terminal is set to 115200 baud, 8 data bits, 1 stop bit and no parity. Then type ? or help, which should return the command list.

Need help? — For additional support, visit kanexpro.com/support, or scan the QR code below for the product page.

11. Installation FAQ

Q: What cable do I need between the AUD-DTE-HDMI and the network switch, and how long can it be?

A: Use CAT6, CAT6A or CAT7 with an RJ45 connector, up to 100m (328ft) to the switch.

Q: What does the switch port need to provide?

A: To power the unit from the network, the RJ45 DANTE port needs PoE to IEEE 802.3af Class 0. If the switch has no PoE, power the unit from a 5V/500mA source on the USB-C port instead. No USB-C cable or power supply comes in the box, so you need to provide your own.

Q: What are the basic installation steps?

A: Connect the HDMI source to HDMI IN, then connect the RJ45 DANTE port to a PoE network switch, which powers the unit. Open Dante Controller on any PC on that network, where the unit shows up as a Dante transmitter. Route its 2 channels to your receivers and set the latency to 1, 2 or 5ms.

Q: What do the LEDs on the RJ45 DANTE port mean?

A: The green LINK LED stays on once the network link is up. The yellow DATA LED flashes while data is moving.

Q: What does the RESET button reset?

A: The RESET button returns only the Dante network settings to factory defaults. To reset the whole device, send the set reset command over the USB-C serial port and type Yes when it asks you to confirm.

12. Integration FAQ

Q: What software do I need to set up the AUD-DTE-HDMI on a Dante network?

A: You only need Dante Controller, which is a free download from audinate.com/get-dante/software. No other license or software is required.

Q: What devices can receive the audio from the AUD-DTE-HDMI?

A: Any Dante endpoint on the network can receive it, such as a DSP or processor, a Dante amplifier or a recording system. With AES67 mode turned on in Dante Controller, AES67-compatible devices can receive it too.

Q: How do I connect to the serial API on the AUD-DTE-HDMI?

A: Connect the USB-C port to a PC and open a serial terminal at 115200 baud, 8 data bits, 1 stop bit and no parity. Type ? or help to list the available commands.

Q: Can I reboot the unit or make the source re-read the EDID without unplugging anything?

A: Yes. Over the USB-C serial API, set reboot restarts the device, which reports its MCU version as it boots. The set hotplug command holds the HDMI hotplug signal low for 1 second and then high, which makes the source read the EDID again.



Scan for product page
kanexpro.com/item/AUD-DTE-HDMI

kanexpro.com/support