

Dante® 2CH HDMI™ Input Adapter

Thank you for purchasing the KanexPro AUD-DTE-HDMI. Please read these instructions carefully before connecting, operating, or adjusting this product. Keep this manual for future reference.

Surge Protection Recommended: This product contains sensitive electronic components. Use of surge protection is strongly recommended to protect and extend the life of your equipment.



MPN: AUD-DTE-HDMI

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1. INTRODUCTION

The KanexPro AUD-DTE-HDMI is an audio transmitter built on the Dante® Ultimo 2x2 platform. It converts two-channel PCM audio embedded in an HDMI™ signal into Dante® 2CH digital audio and transmits it across the network with lossless fidelity. The adapter supports audio sampling rate conversion and maintains a pure digital signal path with no analog conversion stages or signal loss. Powered via USB-C or PoE, the compact device is plug-and-play and suitable for recording studios, live events, conference rooms, classrooms, broadcast facilities, and houses of worship.

2. FEATURES

- ✓ Converts 2-channel PCM HDMI™ audio to Dante® 2CH digital audio with no analog conversion stage
- ✓ HDMI™ audio input supports PCM 2CH 32 kHz–192 kHz @ 24-bit; HDMI 2.0b / HDCP 2.3 compliant
- ✓ Dante® output supports 44.1, 48, 88.2, and 96 kHz @ 24-bit for broad pro-audio compatibility
- ✓ Configurable Dante® device latency: 1, 2, or 5 ms via Dante® Controller
- ✓ AES67 supported — interoperates with third-party Dante/AES67 devices across any vendor ecosystem
- ✓ Dual power: PoE (IEEE 802.3af Class 0) or USB-C 5V/500 mA — no external PSU required
- ✓ Signal-to-noise ratio >130 dB; THD+N <0.01%; audio output delay <1 ms
- ✓ USB-C port serves as power input, MCU firmware update port, and API command/EDID control port

3. PACKAGE CONTENTS

- ① 1× Dante® 2CH HDMI™ Input Adapter ② 2× Hook & Loop ③ 1× User Manual



4. Specifications

TECHNICAL	
HDMI™ Compliance	HDMI™ 2.0b • HDCP 2.3
Video Bandwidth	18 Gbps
Color Depth	8 / 10 / 12-bit
Color Space	RGB • YCbCr 4:4:4 • YCbCr 4:2:2 • YCbCr 4:2:0
HDR	HDR • HDR10 • HDR10+ • Dolby Vision • HLG
HDMI™ Audio Input	PCM 2CH • 32 kHz – 192 kHz • 16/24-bit
Dante® Audio Output	PCM 2CH • 44.1 / 48 / 88.2 / 96 kHz • 16/24-bit
Audio Latency	Configurable: 1 / 2 / 5 ms (via Dante® Controller)
Audio Output Delay	<1 ms
Signal-to-Noise Ratio	>130 dB @ 0 dBu, 1 kHz A-weighted
Dynamic Range	>130 dB @ 0 dBu, 1 kHz A-weighted
THD+N	<0.01% @ +4 dBu, 1 kHz
Frequency Response	20 Hz – 20 kHz (±0.5 dB)
Network Bandwidth	100 M
Transmission Distance	Up to 328 ft / 100 m (CAT6/6A/7)
ESD Protection	±8 kV air-gap discharge • ±4 kV contact discharge (IEC 61000-4-2)
Connections	1× HDMI™ IN (Type A) • 1× Dante® RJ45 (PoE) • 1× USB-C (Power/FW/API) • 1× Reset button • 1× HDMI™ LED (green)
Power Supply	USB-C: 5V / 500 mA • PoE: IEEE 802.3af Class 0
Power Consumption	1.8 W (max)
Housing	Plastic enclosure • Black
Dimensions	115 mm W × 40 mm D × 28 mm H
Weight	90 g
Operating Temperature	0°C – 40°C / 32°F – 104°F
Storage Temperature	–20°C – 60°C / –4°F – 140°F
Operating Humidity	20% – 80% RH (non-condensing)
Storage Humidity	10% – 90% RH (non-condensing)
Control	Dante® Controller • USB-C serial API (115200 baud)



5. Operation Controls & Functions

- 1 DANTE (RJ45, PoE)**
Dante® 2CH digital audio output port. Connect to a network switch via RJ45 cable. Supports PoE (IEEE 802.3af Class 0) for device power. Green LINK LED is steady on after normal connection. Yellow DATA LED flashes during data transmission.
- 2 HDMI™ IN (Type A, 19-pin)**
HDMI™ signal input port. Connect to HDMI source device (laptop, PC, media player, set-top box, Blu-ray player, etc.). The adapter de-embeds PCM 2CH audio from the HDMI stream for Dante® transmission. Note: video is not passed through.
- 3 POWER (USB-C)**
USB-C port with three functions: (1) Power input — 5V/500 mA USB-C power supply. (2) MCU firmware update port. (3) API command control port — connect to a PC with a USB-C cable to send serial API commands or upload custom EDID data.
- 4 RESET Button**
Press to reset Dante® network settings to factory defaults. Note: this button resets Dante® settings only. Full device reset requires API command set reset via the USB-C serial port.

- ④ HDMI™ LED (GREEN)**
- **Solid On:** Active HDMI™ audio input is detected from the connected source.
 - **Flashing:** The unit is initializing / booting.

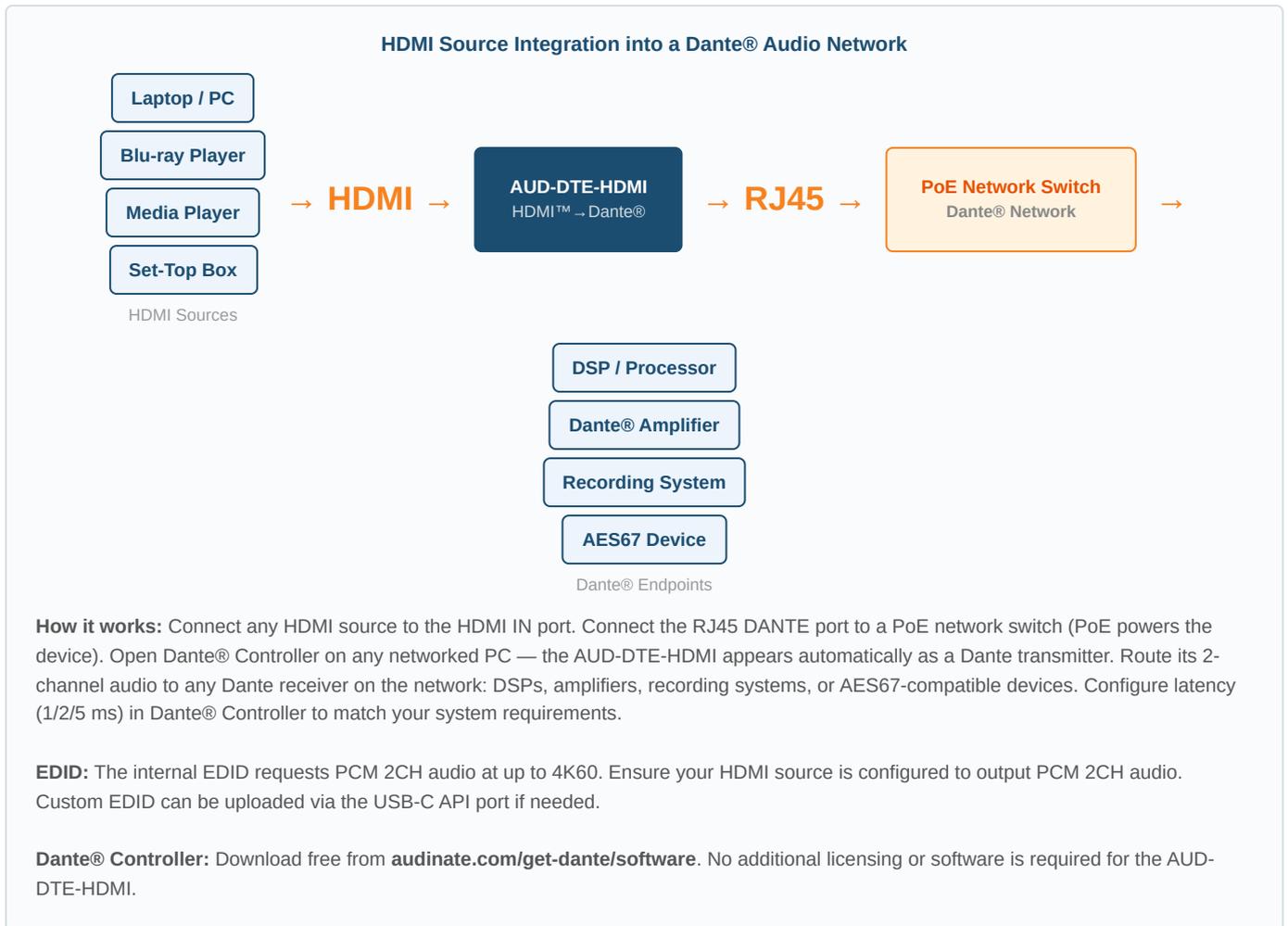
6. API Commands

Connect the POWER (USB-C) port to a PC. Open a serial terminal tool and use the following settings: **Baud: 115200 • Data: 8 bits • Stop: 1 bit • Parity: None**

COMMAND	FUNCTION	FEEDBACK / NOTES
?	List all commands	Returns command list
help	List all commands	Returns command list
get fw version	Get firmware version	e.g. MCU: V1.00.01
get status	Get system status	Returns input cable, resolution, color space, audio format, HDCP, EDID status
set edid x	Set HDMI input EDID (x=0,1,2)	0=Internal (4K60, PCM 2CH) • 1=User Defined 1 • 2=User Defined 2
get edid	Get current EDID selection	Returns current EDID index and name
set user edid x <y>	Upload custom EDID (x=0,1,2; y=256 bytes)	x=0: both user slots • x=1,2: individual slots
get edid data x	Read EDID data (x=0,1,2)	Returns 256-byte EDID hex string
set hotplug	Toggle HDMI hotplug event	Low 1s then high — forces re-EDID negotiation
set reboot	Reboot device	System reinitializes; MCU version reported on boot
set reset	Reset to factory defaults	Confirms with prompt — type "Yes" to confirm



7. Application Example



FAQ

Q: Does the HDMI video pass through to a display?

No. The AUD-DTE-HDMI extracts audio only. If the source also needs to connect to a display, use a KanexPro HDMI splitter upstream of the adapter.

Q: What HDMI audio formats are supported?

PCM 2-channel audio at 32 kHz to 192 kHz, 16/24-bit. The HDMI source must output PCM 2CH. Compressed formats (Dolby, DTS) are not supported.

Q: Can it be powered without a PoE switch?

Yes. Connect any USB 5V/500 mA power source to the USB-C POWER port. A standard USB wall adapter or powered USB port is sufficient.

Q: Is AES67 interoperability automatic?

AES67 RTP mode can be enabled in Dante® Controller under the device's AES67 settings. Once enabled, the device transmits and receives using AES67 RTP, allowing interoperability with non-Dante AES67 endpoints.

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