1. Introduction

The KanexPro AUD-DTE-LINEIN is a compact Dante® line input adapter that converts two-channel balanced or unbalanced analog audio into Dante 2CH digital audio. Built on the Dante Ultimo 2×2 platform, it supports sampling rates of 44.1, 48, 88.2, and 96kHz at 24-bit resolution with configurable audio delay of 1, 2, or 5ms. Five sensitivity levels (+24dBu to −10dBV) allow per-channel gain matching. Powered via PoE (IEEE 802.3af) or USB-C 5V with AES67 RTP support.

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2. Features

- Converts 2-channel balanced/unbalanced analog audio to Dante digital audio via 6-pin 3.5mm phoenix connector
- Dante Ultimo 2×2 platform — 44.1/48/88.2/96kHz at 24-bit
- 5-level per-channel sensitivity: +24dBu, +4dBu, 0dBu, 0dBV, −10dBV
- >100dB S/N ratio, >100dB dynamic range, <0.01% THD+N at +4dBu
- Configurable Dante audio delay: 1, 2, or 5ms via Dante Controller
- AES67 RTP audio transmission for cross-platform interoperability
- Dual power: PoE (IEEE 802.3af Class 0) or USB-C 5V
- Compact 115×40×28mm with hook-and-loop mounting

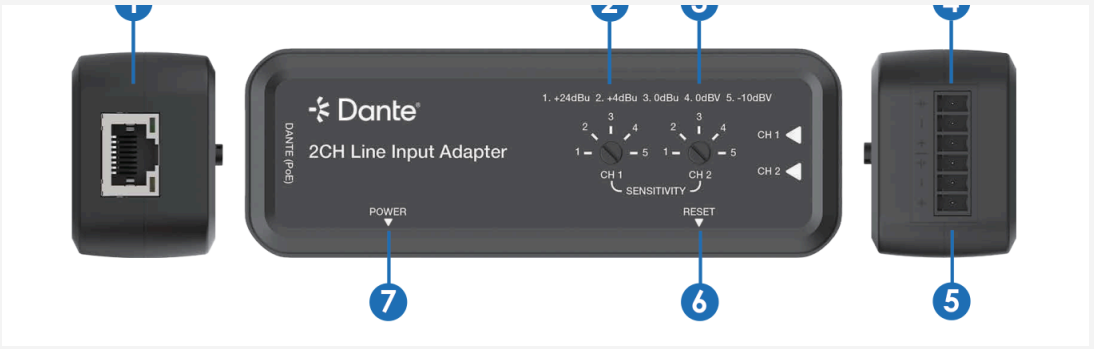
3. Package Contents

Qty	Item
1×	Dante 2CH Line Input Adapter
1×	6-pin 3.5mm Phoenix Connector (male)
2×	Hook & Loop
1×	User Manual

4. Specifications

Specification	Value
Audio	
Audio Input	2CH balanced/unbalanced analog (6-pin 3.5mm phoenix)
Audio Output	Dante 2CH digital audio (RJ45 PoE)
Sampling Rate	44.1 / 48 / 88.2 / 96kHz @24-bit
Sensitivity Levels	+24dBu, +4dBu, 0dBu, 0dBV, −10dBV
Max Input (Balanced)	+24dBu (12.28Vrms)
Max Input (Unbalanced)	+18dBu (6.15Vrms)
Input Impedance	20kΩ balanced / 10kΩ unbalanced
Frequency Response	20Hz–20kHz (±0.5dB)
S/N Ratio	>100dB @0dBu, 1kHz (A-weighted)
Dynamic Range	>100dB @0dBu, 1kHz (A-weighted)
THD+N	<0.01% @+4dBu, 1kHz
Audio Delay	1 / 2 / 5ms (Dante Controller)
Output Sync Delay	<10ms
Network	
Protocol	Dante / AES67 RTP
Bandwidth	100Mbps
Distance	328ft / 100m (CAT6/6A/7)
ESD Protection	IEC 61000-4-2 ±8kV air / ±4kV contact
Power	
Power Input	USB-C 5V/500mA or PoE IEEE 802.3af Class 0
Consumption	2W max
Mechanical	
Dimensions / Weight	115 × 40 × 28mm (W×D×H) / 94g
Housing	Plastic enclosure
Operating Conditions	0–40°C, 20–80% RH
Storage Conditions	−20–60°C, 10–90% RH

5. Operation Controls and Functions



No.	Name	Function Description
1	DANTE (PoE)	Dante® digital audio output. RJ45 to PoE switch. Green LINK LED = network active. Amber ACT LED = data. Supplies PoE (802.3af Class 0).
2	CH1 Knob	Sensitivity for Channel 1. Positions: 1 (+24dBu), 2 (+4dBu), 3 (0dBu), 4 (0dBV), 5 (−10dBV).
3	CH2 Knob	Sensitivity for Channel 2. Same five levels as CH1.
4	CH1 Port	Channel 1 analog input (3-pin phoenix). Balanced (+, −, GND) or unbalanced (+, GND).
5	CH2 Port	Channel 2 analog input (3-pin phoenix). Balanced (+, −, GND) or unbalanced (+, GND).
6	RESET	Recessed button. Hold 5s to restore factory defaults.
7	POWER (USB-C)	USB-C 5V/500mA power input. Use when PoE is not available.

6. Wiring Configuration

6.1 Phoenix Connector Pin Assignment

Pin	CH1	CH2
+ (signal hot)	Pin 1	Pin 4
− (signal cold)	Pin 2	Pin 5
GND (ground)	Pin 3	Pin 6

Balanced: Wire signal hot to +, signal cold to −, shield/ground to GND.

Unbalanced: Wire signal to +, shield/ground to GND. Leave − unconnected or bridge to GND.

6.2 Sensitivity Selection Guide

Position	Level	Typical Source
1	+24dBu	High-output professional mixer, amplified line output
2	+4dBu	Professional mixer line output (default pro level)
3	0dBu	Standard balanced audio equipment
4	0dBV	Standard unbalanced audio equipment
5	−10dBV	Consumer audio devices, media players

7. Dante Controller Configuration

The AUD-DTE-LINEIN is managed through Audinate's free **Dante Controller** software. No Web GUI or RS-232 interface is provided — all audio routing, delay, sample rate, and naming are configured within Dante Controller.

7.1 Discovery & Naming

Connect the adapter to a PoE switch on the same subnet as your Dante Controller PC. The device appears automatically in the device list. Rename to match your system labeling convention.

7.2 Audio Routing

The adapter presents two Dante transmit channels (CH1, CH2). In the routing matrix, subscribe any Dante receiver to these channels. Audio flows from the analog input through the adapter onto the network.

7.3 Sample Rate

Supported: 44.1kHz, 48kHz, 88.2kHz, 96kHz at 24-bit. All devices on the same Dante network must share the same rate. Change via Device View > Device Config.

7.4 Latency / Delay

Configurable: 1ms, 2ms, or 5ms. Single-switch networks: 1ms. Multi-switch or large networks: 2–5ms for stable synchronization.

7.5 AES67 Mode

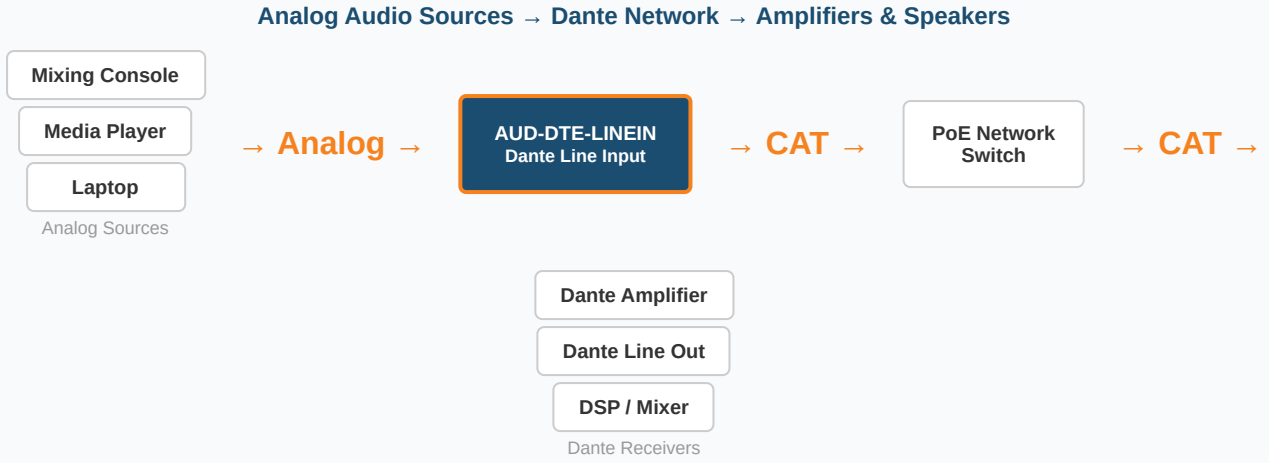
Toggle between Dante and AES67 in Device View > Device Config. AES67 enables interoperability with non-Dante AES67 devices. The device reboots during the switch — re-subscribe after it reappears.

8. Default Settings

Parameter	Default Value
Device Name	AUD-DTE-LINEIN-<MAC suffix>
Sample Rate	48kHz
Audio Delay	1ms
CH1 Sensitivity	Position 3 (0dBu)
CH2 Sensitivity	Position 3 (0dBu)
Protocol	Dante (AES67 disabled)
Network	DHCP (auto-assign)

Factory Reset: Press and hold the recessed RESET button for 5 seconds. All settings revert to factory defaults. Active Dante subscriptions are dropped.

9. Application Example



How it works: Connect analog sources to CH1/CH2 phoenix inputs. Set sensitivity knobs to match source levels. Connect DANTE (PoE) port to a PoE switch — single cable carries audio + power. In Dante Controller, subscribe receivers to CH1/CH2.
Ecosystem: Pair with AUD-DTE-LINEOUT (line output), AUD-DTE-2CHAMP (amplifier), or AUD-DTE-HDMI (HDMI audio) — all managed through Dante Controller.
Distance: Up to 100m/328ft over CAT6/6A/7 via the PoE switch.

10. Troubleshooting

Q: Device does not appear in Dante Controller?
A: Verify CAT cable is connected to a PoE-enabled switch port and LINK LED is solid green. Ensure PC is on the same subnet. Try a different cable or port. Restart Dante Controller.

Q: Audio is distorted or clipping?
A: Sensitivity knob is likely set too low for the source level. Rotate to a higher dBu position. Pro mixer at +4dBu: position 2. Consumer device at −10dBV: position 5. Monitor in Dante Controller.

Q: No audio reaching Dante receivers?
A: Verify routing subscriptions in Dante Controller. Confirm all devices share the same sample rate. Check phoenix wiring (balanced: +, −, GND; unbalanced: +, GND).

Q: How do I switch between Dante and AES67?
A: In Dante Controller Device View > Device Config, toggle AES67. Device reboots — re-subscribe after it reappears.

Q: Can I use USB-C and PoE simultaneously?
A: The adapter accepts either source. If both connected, PoE takes priority. Avoid dual connection unless your setup supports it.