Dante Powered 2-Channel Line In Audio Input Encoder with POE

Convert Balanced/Unbalanced Analog Audio to Dante® Digital Audio

MPN: AUD-DTE-ECODE

Thank you for purchasing this product. 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 electrical components. Use of surge protection is strongly recommended.

Network cable: Use CAT6 or CAT6A straight-through Ethernet cable. Do not cross-connect.

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1. INTRODUCTION

The KanexPro AUD-DTE-ECODE is a Dante® 2CH Analog Audio Encoder based on the Dante Ultimo solution. It accepts balanced or unbalanced analog audio from the network, then decodes and outputs it as two-channel balanced or unbalanced analog audio via a 6-pin Phoenix (IN) connector. The unit supports 3-level input gain adjustment and PoE power supply, making it ideal for permanent installed sound environments where screw-terminal wiring is standard practice.

2. FEATURES

- Converts 2-channel balanced/unbalanced analog audio to Dante® 2CH digital audio via 6-pin Phoenix (IN) connector (3.81mm)
- 3-level input gain adjustment: +18dBu, 0dBu (default), −10dBv via GAIN dip switch
- Dante® audio sampling: 44.1kHz, 48kHz, 96kHz @ 24-bit; AES67 RTP compatible
- Configurable Dante® device latency via Dante® Controller software
- DC 12V power input via 2-pin Phoenix connector; PoE IEEE 802.3af Class 0
- Metal enclosure for durability in installed AV environments

3. PACKAGE CONTENTS

① 1× Dante® 2CH Analog Audio Encoder (AUD-DTE-ECODE)

② 1× 6-pin Phoenix (IN) male connector (3.81mm pitch) — audio output

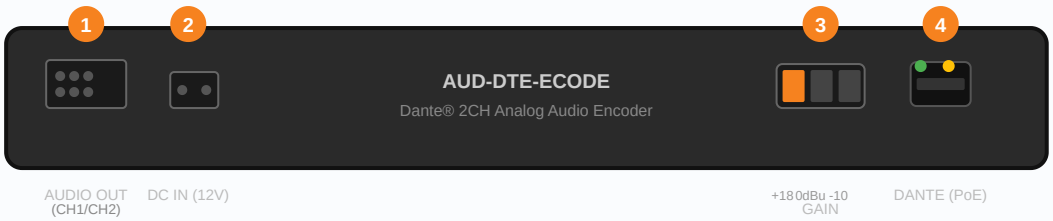
③ 1× 2-pin Phoenix male connector (3.81mm pitch) — DC power

④ 1× User Manual

4. SPECIFICATIONS

TECHNICAL	
Audio Formats	AUDIO IN: balanced/unbalanced analog, then DANTE OUT: PCM 2CH, 44.1/48/96kHz @ 24-bit AUDIO OUT: Balanced/unbalanced analog, max +18dBu
Input Gain	+18dBu / 0dBu (default) / −10dBv (3-position GAIN switch)
Network Bandwidth	100Mbps | Up to 100m / 328ft (CAT6/CAT6A)
Control	Dante® Controller software | AES67 RTP compatible
Frequency Response	20Hz – 20kHz
CONNECTION	
Input	1× Dante® RJ45 (PoE)
Output	1× 6-pin Phoenix (IN) 3.81mm (CH1+/−/GND, CH2+/−/GND)
Power Input	1× 2-pin Phoenix 3.81mm (DC 12V)
POWER & MECHANICAL	
Power Supply	DC 12V via 2-pin Phoenix | PoE IEEE 802.3af Class 0
Power Consumption	1.2W max
Housing	Metal enclosure, Black
Dimensions / Weight	120 × 47 × 26mm | 186g
ENVIRONMENTAL	
Temperature	Operating: 0°C–40°C | Storage: −20°C–60°C
Humidity	20–90% RH non-condensing

5. OPERATION CONTROLS AND FUNCTIONS

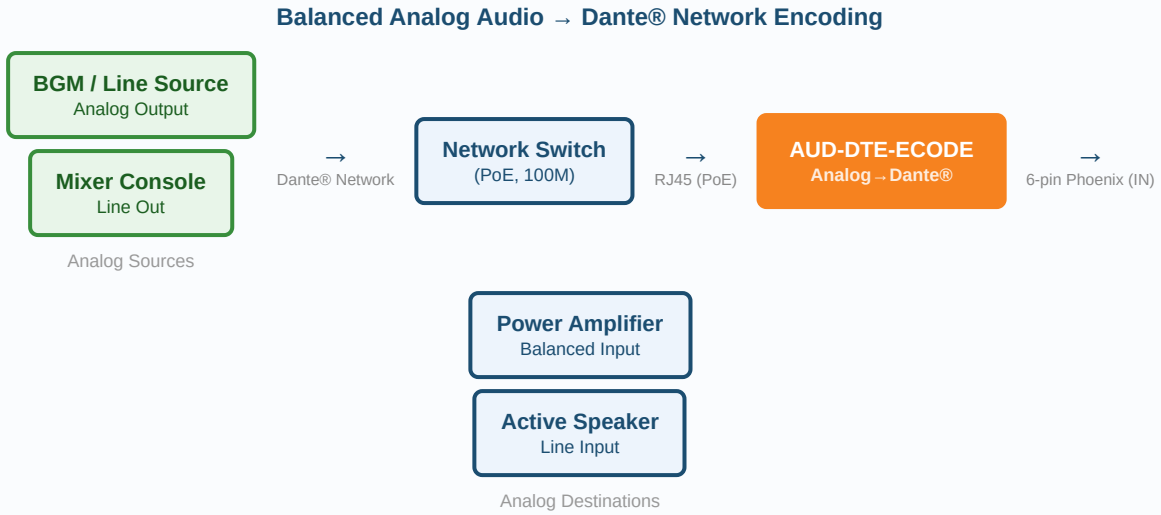


NO.	NAME	FUNCTION DESCRIPTION
1	**AUDIO INPUT (CH1/CH2)**	2-channel analog output via 6-pin Phoenix (IN) male connector (3.81mm pitch). Supports balanced and unbalanced output. Pin order: CH1+ / CH1− / GND / CH2+ / CH2− / GND. Connect using the included 6-pin Phoenix (IN) male connector (screw-terminal field wiring).
2	**DC IN (2-pin Phoenix)**	DC 12V power input via 2-pin Phoenix connector (3.81mm). Use when PoE is unavailable. Connect a regulated 12V DC power supply using the included 2-pin Phoenix male connector.
3	**GAIN Switch**	3-position dip switch for input gain: position 1 → +18dBu, position 2 → 0dBu (default), position 3 → −10dBv. Activate only one position at a time. Factory default is 0dBu.
4	**DANTE (PoE) RJ45**	Dante® digital audio output. Connect to a PoE-capable network switch via CAT6/CAT6A (max 100m). Green LINK LED: solid on when connected. Yellow DATA LED: flashes during transmission. Provides PoE power when connected to a PoE switch.

PHOENIX CONNECTOR PIN-OUT (6-PIN AUDIO OUTPUT)

Pin	Signal	Description
1	CH1+	Channel 1 positive (balanced) or signal (unbalanced)
2	CH1−	Channel 1 negative (balanced) or leave unconnected (unbalanced)
3	GND	Channel 1 ground / shield
4	CH2+	Channel 2 positive (balanced) or signal (unbalanced)
5	CH2−	Channel 2 negative (balanced) or leave unconnected (unbalanced)
6	GND	Channel 2 ground / shield

6. APPLICATION EXAMPLE



How it works: Connect the DANTE (PoE) port to a PoE-capable network switch via CAT6 or CAT6A cable. The unit receives Dante® 2CH PCM audio from any Dante® source on the network and decodes it to balanced or unbalanced analog audio at the 6-pin Phoenix (IN) output connector. Connect the analog source output to the Phoenix male connector (included) using screw-terminal wiring using screw-terminal field wiring. Set the GAIN switch to match the input sensitivity of the connected device: +18dBu for high-headroom professional inputs, 0dBu (default) for standard line inputs, or −10dBv for consumer-level inputs. The unit is powered by PoE from the connected switch, or via DC 12V through the 2-pin Phoenix connector. Configure Dante® audio routing and device latency using Dante Controller software on any computer on the same network.

TRADEMARKS