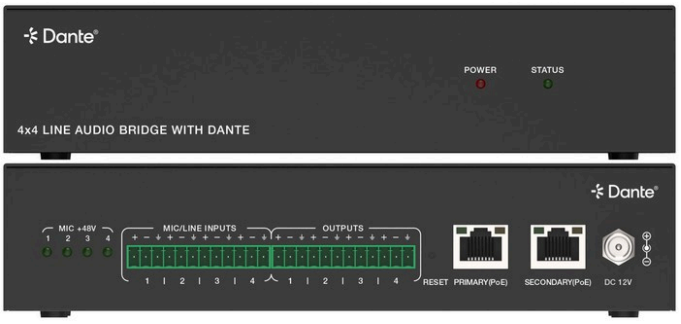
4x4 Mic/Line Dante® and AES67 Bridge with 8-Band PEQ and Delay

Tune and Time-Align at the Interface - 8-Band PEQ on All 8 I/O, Up to 50ms Delay per Output, Mic to +24dBu Line-Up

MPN: AUD-DTE-4X4LINE



Brings four mic or line sources onto Dante® and returns four Dante® channels to analog, tuned and time-aligned at the interface, from one device on one network drop. The AUD-DTE-4X4LINE is a black metal unit measuring 7.87 x 7.09 x 1.73 in. It has two locking RJ45 Dante® ports, primary and secondary, and runs on PoE+ or the supplied 12V/2.5A locking DC supply, drawing 8.64W at most. Four balanced or unbalanced inputs and four balanced or unbalanced outputs terminate on 3.5mm Phoenix connectors. It is the right choice for meeting rooms, lecture halls, houses of worship and venues where channels per drop and I/O-level DSP matter more than a stack of 2-channel adapters.

Each input has switchable +48V phantom power, and a global 0dBFS line-up runs in six steps from -35dBV to +24dBu. One unit therefore handles a condenser mic, consumer playback gear or a hot +24dBu line feed. Every input and output has an 8-band PEQ (±15dB) with parametric, low-pass, high-pass and shelving filters, and each output has up to 50ms of delay. Five preset scenes store every setting except the network settings. The unit carries Dante® and AES67 audio at 44.1kHz to 96kHz, 16/24-bit. You configure it from the built-in Web GUI or Dante® Controller and control it over TCP/IP or Telnet. It joins the rest of the KanexPro Dante® range, from amplifiers and wall plates to 2-channel adapters, so one room can be built from one catalogue.

1 PRODUCT OVERVIEW

DESIGNED FOR

Equipment racks and AV closets in conference rooms, classrooms and lecture halls, sanctuaries and overflow spaces, ballrooms and divisible rooms, courtrooms and council chambers, and residential media and distributed-audio systems. It is for any job where wired mics, a mixer, a legacy DSP or playback gear has to reach a Dante® network, and Dante® feeds have to come back out to non-Dante amplifiers, powered speakers or recorders, all at the same point in the rack.

THE CHALLENGE

Four channels each way usually means a stack of 2-channel adapters, or a pair of one-way 4-channel boxes. Each one takes its own network drop and switch port and has to be managed as a separate device in Dante® Controller. Most of these adapters have no EQ or delay, so tuning a room or time-aligning delay speakers needs a separate DSP.

THE KANEXPRO ADVANTAGE

- Four mic/line inputs and four line outputs in one device, on one network drop, managed as one device in Dante® Controller.
- Part of the KanexPro Dante® range: amplifiers, wall plates and adapters from one catalogue, for the whole room.
- 8-band PEQ (±15dB) on every input and output, plus up to 50ms of delay per output, handles room tuning and delay-speaker alignment at the interface.
- +48V phantom power on each input and a line-up from -35dBV to +24dBu let one unit take condenser mics, consumer playback gear and hot pro line feeds.
- AES67 support and 44.1–96kHz, 16/24-bit audio let it work with AES67 systems as well as Dante®.

2 PRODUCT POSITIONING

> ***The AUD-DTE-4X4LINE is the 4x4 mic/line Dante® bridge for AV integrators who need four channels in and four out on Dante® from a single PoE+ device, with EQ and delay built in, instead of a stack of 2-channel adapters or a separate DSP.***

3 APPLICATIONS



Conference room rack I/O

Four wired gooseneck or boundary mics land on the Phoenix inputs with +48V phantom and reach the room DSP or Dante-native codec. Four Dante returns feed a legacy analog amplifier and program-out to a recorder. The per-channel PEQ tunes out room resonance at the I/O, and the secondary port keeps audio up if the primary switch path fails.



Higher-ed lecture hall upgrade

The existing analog mixer stays in the lectern rack. Its four outputs go to Dante for distribution to overflow rooms and lecture capture. Four Dante channels come back as program feeds to the hall's analog amplifiers. One PoE+ drop from the building switch powers the unit; a 12V DC input is available where PoE+ is not.



House of worship sanctuary to overflow

Main-mix and auxiliary sends from an analog FOH console go onto the Dante network for the fellowship hall, cry room and broadcast room. At the far end, a second unit decodes four channels into local analog amplifiers. Up to 50ms of delay per output time-aligns delay speakers without a separate DSP.



Hospitality ballroom and divisible spaces

Wall-input mics and line feeds in each partition are bridged to Dante at the rack. The four outputs drive zone amplifiers. Line-up selection from −35dBV to +24dBu matches consumer playback gear and hot pro-level outputs on the same unit.



Courtroom and council chamber

Four mics (judge, witness, counsel and clerk) go to Dante for recording, assistive listening and the chamber DSP. Analog outputs feed a legacy recorder and the press feed. AES67 support lets the audio interoperate with AES67-based recording or broadcast systems where the site already uses them.



High-end residential media and distributed audio

Analog outputs from a home-theater processor, turntable preamp or zone sources go onto a Dante backbone. Four Dante channels decode to analog amplifiers in other rooms. The unit sits in the equipment rack on one PoE+ port, and PEQ per output trims each zone to its speakers.

4 WHO THIS IS FOR

Corporate | Higher education | House of worship | Hospitality | Government | And high-end residential

Ideal User	the integrator's audio or system engineer. They are Dante Level 1/2 certified and configure in Dante Controller. They choose interface boxes by channel count per drop, PoE class and DSP.
Project Types	corporate, higher education, house of worship, hospitality, government, and high-end residential.
Typical Buyer	- The integrator's design engineer chooses the part. - The project manager or purchasing approves it on margin. We win that as the "equal" on features, at a lower cost.

5 FREQUENTLY ASKED QUESTIONS

Q: What can a control system adjust by command?

Commands cover power and standby, input gain, sensitivity, mute and phantom power, master and per-output volume, mute and delay, full PEQ settings, and preset save, recall and clear for scenes 1-5. For example, set master vol 50 sets the master volume and set preset recall 1 loads scene 1.

Q: What does a typical system with this unit look like?

A typical system puts the unit on a PoE network switch that powers it, with a microphone and a laptop as sources, and feeds a Dante amplifier, audio amplifiers and active speakers. Its four analog inputs go onto the Dante network, and four Dante channels come back out as analog line outputs.

Q: What filter types and ranges does the parametric EQ offer?
Each of the 8 bands can be parametric, low-pass, high-pass, low-shelf or high-shelf, with gain from -15dB to +15dB in 0.1dB steps, frequency from 20Hz to 20kHz and Q from 0.02 to 16. Each output also has 0 to 50ms of delay, and you can store up to 5 preset scenes.

Q: What is in the box?
The AUD-DTE-4X4LINE audio bridge, a 12V/2.5A locking power supply with multinational plug adapters, two mounting ears with ten machine screws, and two 12-pin 3.5mm Phoenix connectors. The user manual is digital: scan the QR code on the box.

Q: What sample rates and bit depths does the AUD-DTE-4X4LINE support?
It carries Dante and AES67 audio as PCM at 44.1kHz, 48kHz, 88.2kHz or 96kHz, in 16-bit or 24-bit.

Q: A microphone on one input gives no sound. What should I check?
First check that the input's phantom power is on if the mic needs it: the rear green 48V light shows it is active. Then confirm that the input is not muted and that its sensitivity suits a mic, such as -35dBV.

Q: Can a control system drive the AUD-DTE-4X4LINE?
Yes. It accepts ASCII commands over TCP/IP on port 8000 and over Telnet on port 23, on either Dante port. You can change both ports on the Network page or by command.

Q: Can end users adjust volume without access to the full settings?
Yes. The Web GUI has an Admin account with full access and a User account that only recalls preset scenes and sets the Master Out volume and mute. You can change both passwords on the System page.

Q: Can it take microphones, or only line-level sources?
Both. Each of the four inputs accepts balanced or unbalanced mic or line signals, and each input supports +48V phantom power for condenser mics. A global 0dBFS line-up setting runs from -35dBV to +24dBu, so the same unit handles a wired mic, consumer playback gear or a hot pro-level line feed.

Q: Do I need four separate adapters to get four channels in and four out on Dante?
No. AUD-DTE-4X4LINE handles four analog inputs and four analog outputs in one device, from one network connection. That means one drop, one switch port and one device to manage in Dante Controller, rather than a stack of 2-channel adapters.

Q: Do I still need a separate DSP for basic room tuning?
Often not, for I/O-level work. Every input and output has an 8-band parametric EQ (+/-15dB), and each output has up to 50ms of delay. They are set from the built-in Web GUI. Use them to tame a room mode, contour a speaker zone or time-align delay speakers at the interface.

Q: Does it work with Dante Controller and AES67 systems?
Yes. Channel routing and sample rate are set in Dante Controller like any other Dante device. AES67 is supported for interoperability with AES67-based systems. Dante audio runs at 44.1kHz to 96kHz, 16- or 24-bit.

Q: How do I find the unit on the network the first time?
Connect the PRIMARY (PoE) port and your PC to the same switch, and set the PC to obtain an IP address automatically. The unit uses DHCP by default, so open Dante Controller, find the unit on the Routing page and note its IP address on the Device Info tab, then type that address into a web browser to reach the Web GUI.

Q: How do I turn on phantom power for a microphone?
Phantom power is off by default. Switch +48V on for each input on the Web GUI Input page, or send a command such as set input 3 phantom power on. The green 48V light for that input on the rear panel comes on when phantom power is active.

Q: How is the AUD-DTE-4X4LINE powered?
Power it by PoE+ (Class 4, IEEE 802.3at) on the PRIMARY Dante port, or from the supplied 12V/2.5A locking DC power supply. A PoE+ switch means you need no local power supply at all.

Q: I cannot reach the Web GUI. What should I check?
Make sure the PC and the unit's Dante port are on the same switch and that the PC is set to obtain an IP address automatically. The unit uses DHCP by default, so look up its current address on the Device Info tab in Dante Controller, or type its .local domain name into the browser instead.

Q: The POWER LED is red and there is no audio. What should I check?
A red POWER LED means the unit is in standby. Wake it with the power icon in the Web GUI or the power on command. Auto standby is set to 10 minutes by default, and you can turn it off with set auto stb 0.

Q: What are the maximum input and output levels?
The inputs accept up to +24dBu (12.28Vrms) balanced line or +18dBu (6.14Vrms) unbalanced line, and down to -35dBV (17.78mVrms) balanced mic. The outputs deliver up to +20dBu (7.75Vrms) balanced or +14dBu (3.875Vrms) unbalanced.

Q: Can I control it from the RelayAV app?
Yes. RelayAV, KanexPro's control app, gives you master volume and mute, each output's volume, mute, delay and level, each input's gain, mute, sensitivity and 48 V phantom power, input and output EQ, presets, auto standby and power. Control systems reach the same controls through the RelayAV API and MCP. RelayAV asks before it switches 48 V phantom power on. Dante routing and the primary and secondary Dante ports stay in Dante Controller, and channel and preset names, settings export and import, and firmware updates stay on the unit's own web page.