Dante® Bluetooth Audio Input Adapter with APTX-LL & APTX-HD

Stream Any Bluetooth 5.1 Device into Your Dante® Network — No Analog Stage

Dante® networks are wired by design — but the presenters, performers, and guests in your spaces aren't. The KanexPro AUD-DTE-BT bridges that gap without compromise: Bluetooth 5.1 audio from any smartphone, tablet, or laptop streams directly onto your Dante® network as clean 2-channel PCM digital audio, with no analog conversion stage, no extra adapters, and no signal degradation between source and destination.

Built on the Dante® Ultimo 2×2 platform, the AUD-DTE-BT is a fully managed Dante device — discoverable and configurable via Dante® Controller with selectable latency of 1, 2, or 5ms. A single RJ45 connection handles both Dante audio output and PoE power from any standard 802.3af switch, with USB-C as a backup power option for installations without PoE infrastructure.

> **Surge Protection Recommended:** This product contains sensitive electrical components. Use of surge protection systems is highly recommended to protect and extend the life of your equipment.
>
> **Network Cable:** This product requires direct (straight-through) CAT cable connection. Do not use crossover cables.

Table of Contents

1. Introduction

The Dante® 2CH Bluetooth Input Adapter is an audio transmitter based on the Dante® Ultimo 2×2 platform. It converts two-channel Bluetooth audio into Dante® 2CH digital audio and transmits the audio to the receiving end through the network (Dante®). The adapter supports local USB-C port power supply and PoE function.

2. Features

☆ Two-channel Bluetooth audio to Dante® 2CH digital audio

☆ Supports Bluetooth V5.1, SBC / AAC / APTX / APTX-LL / APTX-HD, up to 192kHz @ 24-bit

☆ Dante® audio sampling rate supports 48kHz @ 24-bit

☆ Dante® audio delay supports 1 / 2 / 5ms (configurable via Dante® Controller)

☆ Supports local USB-C port power supply and PoE function (Class 0 IEEE 802.3af)

☆ Compact design for easy and flexible installation

3. Package Contents

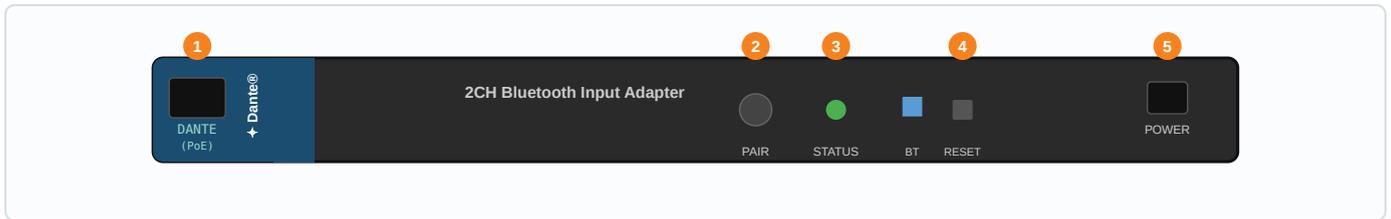① 1× Dante® 2CH Bluetooth Input Adapter

① 2× Hook & Loop

① 1× User Manual

4. Specifications

SPECIFICATION	DETAILS
Technical	
Input	Two-channel Bluetooth audio
Output	Dante® 2CH digital audio
Bluetooth Version	V5.1
Bluetooth Codecs	SBC / AAC / APTX / APTX-LL / APTX-HD
Control Method	Dante® Controller
Network Bandwidth	100Mbps
Audio	
Bluetooth IN	PCM 2CH • 44.1K–192kHz • 16/24-bit
Dante OUT	PCM 2CH • 48kHz • 16/24-bit
Audio Latency	1 / 1 / 4ms (configurable via Dante® Controller)
Frequency Response	20Hz – 20kHz (±0dB)
Signal-to-Noise Ratio	>100dB @ 2Vrms, 1kHz A-weighted
Dynamic Range	>100dB @ 2Vrms, 1kHz A-weighted
THD+N	<0.01% @ 0dBV, 1kHz
Connection	
Input Ports	1× Bluetooth (wireless) • 1× USB-C power (12-pin female)
Output Ports	1× Dante RJ45 (PoE)
Transmission Distance	100m / 328ft (CAT6 / 6A / 7)
Power	
Power Supply	USB-C 5V/500mA or PoE IEEE 802.3af Class 0
Power Consumption	0.65W (max)
Mechanical	
Housing	Plastic Enclosure • Black
Dimensions	115 × 40 × 28mm (W × D × H)
Weight	93g
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)
Compliance	
ESD Protection	IEC 61000-4-2 • ±8kV air-gap • ±4kV contact
Package Contents	
1×	Dante® 2CH Bluetooth Input Adapter
2×	Hook & Loop
1×	User Manual

5. Operation Controls and Functions

NO.	NAME	FUNCTION DESCRIPTION
1	**DANTE (PoE) Port**	Dante® digital audio output port. Connect to a PoE network switch via RJ45 cable. Supports PD power supply (PoE IEEE 802.3af Class 0). Green LINK LED is solid when connected; yellow DATA LED flashes during data transmission.
2	**PAIR Button**	Bluetooth pairing button. **Short press:** Start Bluetooth pairing. **Long press (5s):** Clear current paired source device and start new Bluetooth pairing. *Note: Button operations are only available when "Bluetooth discoverable" is set to On (default). If discoverable is set to Off via API, the button is non-functional.*
3	**STATUS LED**	Bluetooth pairing indicator (green). **Solid on:** Bluetooth is paired. **Flashing at 2Hz:** Bluetooth is pairing. **Flashing at 1Hz:** Bluetooth is not paired.
4	**RESET Button**	Press to reboot the unit. Device reset to factory defaults must be performed via API command (set reset) — not via this button.
5	**POWER Port (USB-C)**	USB-C port with two functions: (1) Power input — 5V/500mA USB-C power supply. (2) Firmware/Bluetooth update port — send the serial command `set bt update` to switch to Bluetooth update mode. Reboot after update to apply changes.

6. API Commands

The adapter supports API commands via the POWER port (USB-C virtual RS-232). Connect the POWER port to a PC with a USB-C cable, then open a serial command tool to send commands.

> **Communication Protocol:** Baud rate: 115200 (fixed) • Data bits: 8 • Stop bits: 1 • Parity: None • End mark: <CR><LF>

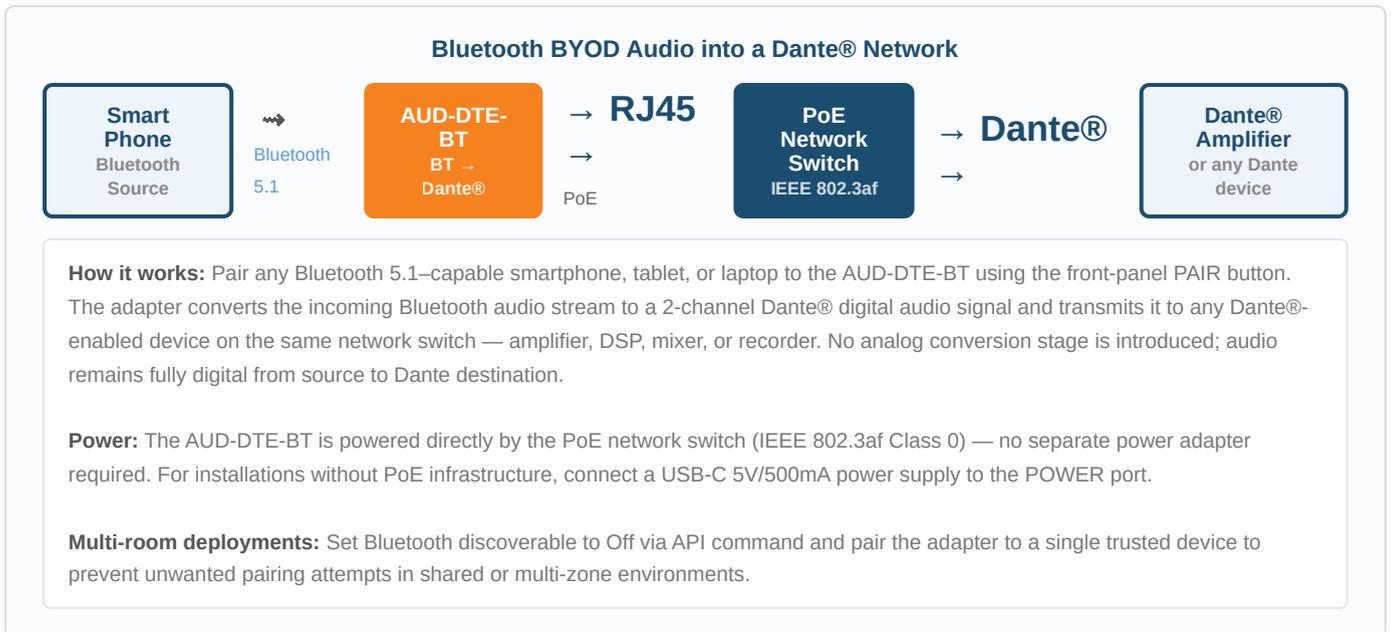| COMMAND	FUNCTION	FEEDBACK (EXAMPLE)	DEFAULT
`get status`	Get system status	See status note below	—
`get fw version`	Get firmware version	MCU FW v1.0.0 / BT FW v36	—
`set reboot`	Reboot the device	Reboot… System Initializing…	—
`set reset`	Reset to factory defaults	Confirm prompt (type "Yes")	—
`set bt name <x>`	Set Bluetooth device name	Set Bluetooth device name to <x>	Dante Adapter
`get bt name`	Get Bluetooth device name	Dante Adapter12345	—
`set bt discover on`	Enable Bluetooth discoverable	Set Bluetooth discoverable on	On
`set bt discover off`	Disable Bluetooth discoverable	Set Bluetooth discoverable off	—
`get bt discover`	Get discoverable status	On / Off	—
`get bt connection`	Get Bluetooth connection status	Connected / Disconnected	—
`get bt source`	Get connected source device name	Tom of iPhone 15	—
`set bt paired clear`	Clear paired Bluetooth sources	Clear Bluetooth paired sources	—
`set bt update`	Enter Bluetooth FW update mode	Bluetooth update…	—
`help / ?`	List all commands	Command list	—

> **get status response format:**
> Status Info Dante 2CH Bluetooth Input Adapter • MCU FW v1.0.0 • Bluetooth FW v36
> Bluetooth_Name: Dante Adapter-12345 • Bluetooth_Discoverable: On • Bluetooth_Connection: Connected • Bluetooth_Source: Tom of iPhone 15

7. Application Example

Bluetooth BYOD Audio into a Dante® Network

| **Smart Phone** Bluetooth Source | Bluetooth 5.1 | **AUD-DTE-BT** BT → Dante® | → **RJ45** → PoE | **PoE Network Switch** IEEE 802.3af | → **Dante®** → | **Dante® Amplifier** or any Dante device |

How it works: Pair any Bluetooth 5.1–capable smartphone, tablet, or laptop to the AUD-DTE-BT using the front-panel PAIR button. The adapter converts the incoming Bluetooth audio stream to a 2-channel Dante® digital audio signal and transmits it to any Dante®-enabled device on the same network switch — amplifier, DSP, mixer, or recorder. No analog conversion stage is introduced; audio remains fully digital from source to Dante destination.

Power: The AUD-DTE-BT is powered directly by the PoE network switch (IEEE 802.3af Class 0) — no separate power adapter required. For installations without PoE infrastructure, connect a USB-C 5V/500mA power supply to the POWER port.

Multi-room deployments: Set Bluetooth discoverable to Off via API command and pair the adapter to a single trusted device to prevent unwanted pairing attempts in shared or multi-zone environments.

TROUBLESHOOTING

Q: The STATUS LED is flashing at 1Hz and no Bluetooth device can pair.
A: The adapter is in unpaired/discoverable mode. Short-press the PAIR button to initiate pairing, then select the adapter from your Bluetooth device's available devices list. Ensure Bluetooth discoverable is set to On (default) — verify via `get bt discover` API command if needed.

Q: Adapter does not appear in Dante® Controller.
A: Confirm the RJ45 cable is connected to a PoE-capable network switch on the same subnet as your Dante network. Verify the green LINK LED on the DANTE port is solid. Ensure the network switch supports IEEE 802.3af PoE (Class 0) if using PoE power. Try rebooting the adapter via the RESET button or `set reboot` command.

Q: Audio has dropouts or quality issues after pairing.
A: Ensure the source device is within Bluetooth range and not obstructed by walls or interference sources. Check that the source device supports a high-quality codec (APTX, APTX-LL, or APTX-HD) for optimal audio. Verify Dante® Controller latency setting is appropriate for your installation (1ms for local, 5ms for larger networks).

Q: I need to connect a different Bluetooth device but the adapter stays paired to the old one.
A: Long-press the PAIR button for 5 seconds to clear the current paired device and enter re-pairing mode. Alternatively, send the `set bt paired clear` API command, then short-press PAIR to pair a new device.

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