Bluetooth and RCA/3.5mm to Dante 2x2 Wall Plate, 2-Gang US, PoE

Guest Audio onto Dante® and a Local Line Feed Back Out, from One PoE Drop



Puts a guest's phone, laptop or line-level source (such as a turntable through a phono preamp) onto the Dante® network, and feeds a local speaker, amplifier or recorder from it, through one wall plate on one PoE drop. The AUD-DTE-WPBTRCA fits a standard US 2-gang box. It takes Bluetooth, RCA stereo and 3.5mm stereo inputs, and has RCA and 3.5mm stereo outputs that run at the same time. It draws 3W at most from any IEEE 802.3af PoE switch port, or runs from a local 12V DC supply. It is the right choice for meeting rooms, fellowship halls, classrooms and hospitality zones where open guest access and a local line feed matter more than a DSP-brand endpoint tied to its own ecosystem.

The plate sends two channels to Dante, from Bluetooth or from the active analog input, and plays two channels routed from the network on its local outputs. Bluetooth keeps two devices connected at once and has a Bluetooth name you can change, so each room's plate is easy to find. Input sensitivity is set in software from +18dBu down to -18dBV and output gain from +20dBu down to -10dBV, so consumer and pro sources both sit at the right level. An 8-band PEQ and output delay handle room tuning at the wall. You can control the plate from its Web GUI, over TCP/IP or with the front-panel PAIR button. Channels and device latency are set in Dante Controller, and AES67 RTP support lets it join AES67 systems. One plate does the work of a Bluetooth endpoint, a line-input encoder and a Dante decoder, so it uses one PoE port and one Dante device where that job usually takes two or three. Pair it with the AUD-DTE-WPXLR for balanced XLR sources at the lectern. The 12V DC power supply is sold separately.

Surge Protection Recommended — This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, or lightning strikes. Use of surge protection systems is highly recommended.

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1. Features

- ✓ Dante® network wall plate for US 2-gang boxes, with Bluetooth, RCA or 3.5mm audio in and RCA and 3.5mm audio out
- ✓ Two channels to Dante from Bluetooth or analog input, and two channels from Dante to the analog outputs
- ✓ Bluetooth
- ✓ Up to two Bluetooth devices connected at the same time
- ✓ Bluetooth name you can change (up to 24 bytes), so users pick the right plate in a building with several
- ✓ Bluetooth pairing window adjustable from 30 to 300 seconds, or left open with no time limit
- ✓ Input switches between Bluetooth, RCA and 3.5mm, with automatic or manual source selection and a choice of analog input priority
- ✓ RCA and 3.5mm outputs carry the same audio at the same time
- ✓ Analog input sensitivity set in software: +18dBu, +4dBu, 0dBu, 0dBV, -10dBV or -18dBV
- ✓ Analog output gain set in software: +20dBu, +4dBu, 0dBu, 0dBV or -10dBV
- ✓ Per-channel input gain, output volume, mute and output delay (0–50ms), with left/right stereo linking
- ✓ 8-band parametric EQ on every input and output channel, with Parametric, Lowpass, Highpass, Low Shelf and High Shelf filters; export and import of EQ settings
- ✓ Bluetooth volume adjustable from 0 to 100
- ✓ Bluetooth previous track, next track and play/pause control, with artist, album and track display
- ✓ Bluetooth audio bridging selectable: call audio, media audio, or both
- ✓ Bluetooth firmware upgrade through the USB-C service port
- ✓ Dante® sample rates of 44.1, 48, 88.2 and 96kHz
- ✓ Dante® device latency set in Dante® Controller: 2, 3, 4, 5 or 10ms
- ✓ Supports AES67 RTP audio transport
- ✓ Class 0 IEEE 802.3af PoE, so any PoE switch can power the unit
- ✓ Runs from a local 12V DC adapter (sold separately) where the switch has no PoE
- ✓ Control from the front-panel PAIR button, over TCP/IP or Telnet, or through the built-in Web GUI
- ✓ Web GUI with separate Admin and User accounts. The User account opens only the Control page
- ✓ Export and import of the full configuration for quick roll-out across several rooms
- ✓ Works with RelayAV, KanexPro's control app: Bluetooth volume, mute and pairing, the source, input gain, mute and sensitivity, output volume, mute, delay and level, input and output EQ, and the Bluetooth name and paired phones, from the RelayAV app

2. Package Contents

- ✓ 1x Bluetooth and Analog Audio to Dante® 2x2 Wall Plate
- ✓ 1x 2-pin 3.5mm Phoenix connector (male), for the DC 12V input

3. Specifications

AUDIO INPUTS AND OUTPUTS	
Inputs	Bluetooth audio; unbalanced analog audio (RCA or 3.5mm stereo jack); Dante® digital audio
Outputs	Unbalanced analog audio (RCA and 3.5mm stereo jack, simultaneous); Dante® digital audio
Dante® Channels	2 transmit (Bluetooth or analog input) + 2 receive (to analog outputs)
AUDIO FORMATS	
Bluetooth In	2 channels; 44.1–48kHz; 16/24-bit

continued

Line In	Unbalanced analog, 2 channels, max. input level +18dBu
Dante® In/Out	Digital audio, 44.1–96kHz, 16/24-bit
Line Out	Unbalanced analog, 2 channels, max. output level +20dBu
Input Sensitivity	+18dBu, +4dBu, 0dBu, 0dBV, -10dBV, -18dBV (default +4dBu)
Output Gain	+20dBu, +4dBu, 0dBu, 0dBV, -10dBV (default +4dBu)
AUDIO PERFORMANCE	
Frequency Response	20Hz–20kHz
S/N Ratio	at least 100dB
THD+N	up to 0.1%
Audio Latency	Dante® device latency of 2, 3, 4, 5 or 10ms, set in Dante® Controller
Output Delay	0–50ms per channel
EQ	8-band PEQ per channel; Parametric, Lowpass, Highpass, Low Shelf, High Shelf; +/-15dB; 20Hz–20kHz; Q 0.02–16
NETWORK AND CONTROL	
Network Bandwidth	100Mbps
Transmission Distance	328ft (100m) over CAT6/6A/7
Audio Transport	Dante®; AES67 RTP
Control	Dante® Controller; Web GUI (Admin and User accounts); TCP/IP API (port 8000) and Telnet (port 23); front-panel PAIR button; RelayAV
IP Mode	DHCP (default) or static
ESD Protection	IEC 61000-4-2: +/-8kV (air-gap discharge), +/-4kV (contact discharge)
CONNECTORS	
Bluetooth Input	1x, internal antenna
Analog Inputs	1x 3.5mm stereo jack; 1x RCA stereo pair; line level, unbalanced
Analog Outputs	1x 3.5mm stereo jack; 1x RCA stereo pair; line level, unbalanced
Dante® (PoE)	1x RJ45 with PoE; link and data LEDs
Service	1x USB-C (female), Bluetooth firmware upgrade
Pair	1x PAIR button with blue LED
DC 12V	1x 2-pin 3.5mm Phoenix connector
POWER	
PoE Input	IEEE 802.3af, Class 0
DC Input	12V / 1A
Power Consumption	3W (max.)
Power Adapter	Not included
PHYSICAL	
Form Factor	US 2-gang wall plate

continued

Housing	Plastic panel, iron chassis
Color	White panel, silver chassis
Dimensions (W × D × H)	3.94 × 1.77 × 4.21 in (100 × 45 × 107 mm)
Weight	0.81 lbs (366 g)
ENVIRONMENTAL	
Operating Temperature	32°F to 104°F (0°C to 40°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Operating Humidity	20% to 80% RH, non-condensing
Storage Humidity	10% to 90% RH, non-condensing
COMPLIANCE	
FCC	Part 15, Class B digital device

4. Introduction

This wall plate fits a standard US 2-Gang box. It connects Bluetooth and analog audio sources to a Dante® networked audio system, and sends Dante audio back out to analog equipment.

- **Into the network:** the unit takes two channels from either a Bluetooth source or an unbalanced analog input and sends them to the Dante network.
- **Out of the network:** it takes two channels of Dante audio and plays them on its unbalanced analog outputs.

You can control the unit three ways:

- the PAIR button on the front panel
- API commands over TCP/IP
- the built-in Web GUI, where you configure Bluetooth and choose inputs

In spaces shared by many people, you can rename the unit's Bluetooth name so users can tell it apart from other devices.

The unit is plug and play:

- It takes power from the network switch over PoE (Power over Ethernet), or from a local 12V DC power supply.
- It supports AES67 RTP audio transport.

It works well as a BYOD (bring your own device) point: guests can stream audio wirelessly from any Bluetooth device into the Dante system.

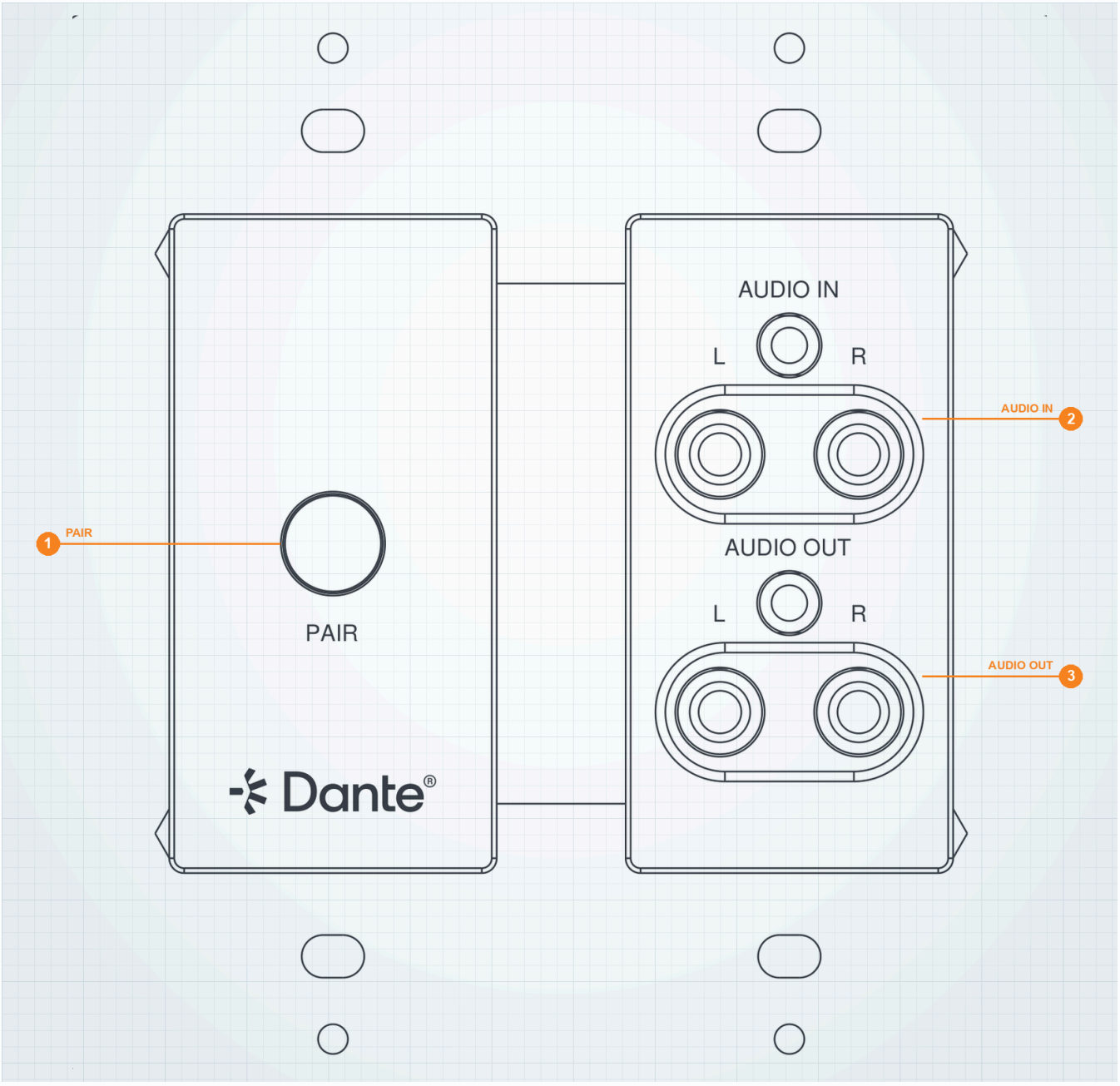
5. Before You Begin

Surge protection. This product contains sensitive electronics. Electrical spikes, surges, electric shock and lightning strikes can damage it. Use a surge protection system to protect the unit and extend its life.

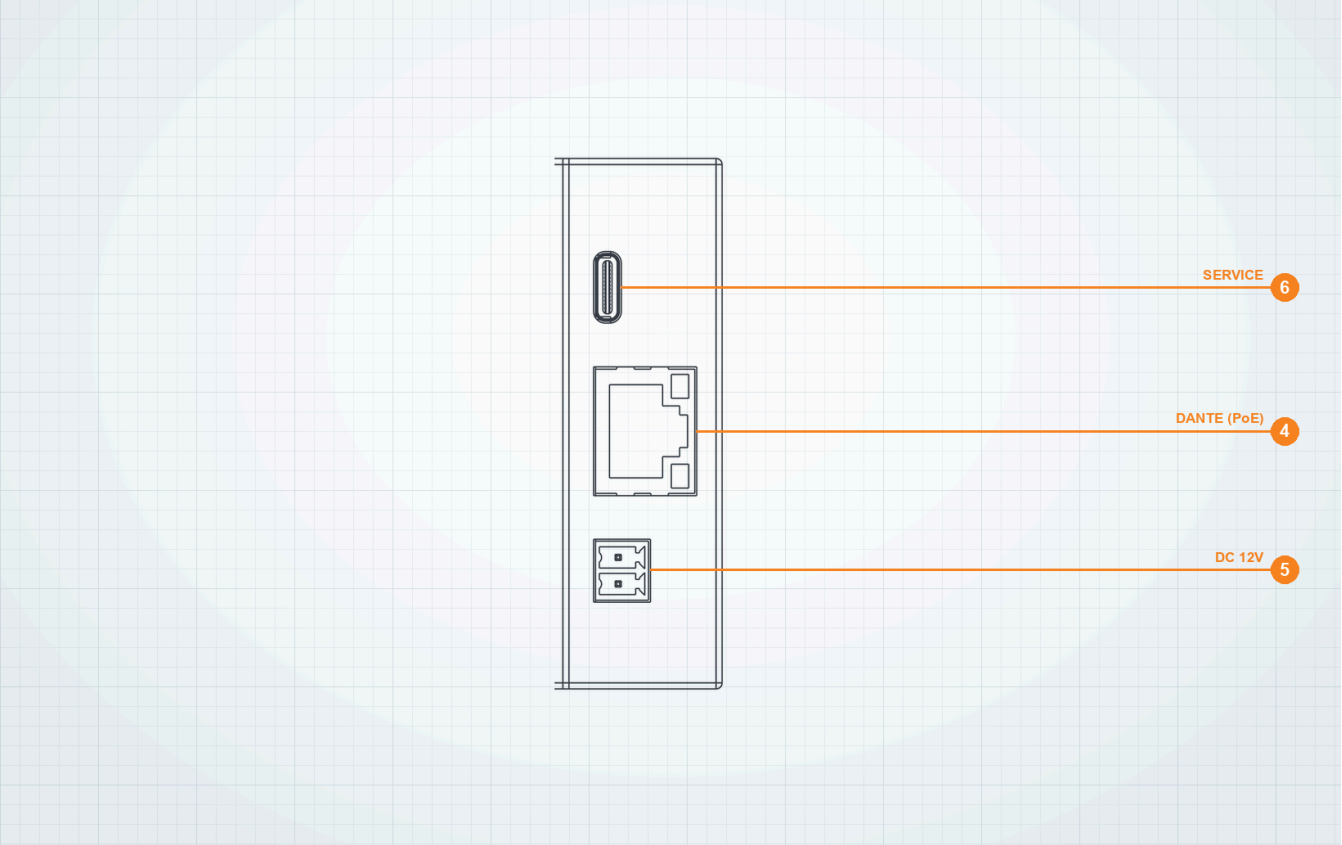
Network cable wiring. Use a straight-through (direct) network cable. Do not use a crossover cable. Wire both ends in the same order:

PIN	WIRE COLOUR
1	White and Orange
2	Orange
3	White and Green
4	Blue
5	White and Blue
6	Green
7	White and Brown
8	Brown

6. Panel descriptions



Front Panel



Side Panel

FRONT PANEL

No.	Name	Description
[confirm]	**PAIR button & LED**	Press to start Bluetooth pairing. The blue LED shows the pairing and connection status. See *Bluetooth Pairing* below.
[confirm]	**AUDIO IN L/R**	Two alternative unbalanced stereo inputs: one 3.5mm jack and one pair of RCA ports. The unit takes audio from one of them at a time, so connect your source to the one you need.
[confirm]	**AUDIO OUT L/R**	Two unbalanced stereo outputs: one 3.5mm jack and one pair of RCA ports. Both carry the same audio at the same time.

REAR PANEL

No.	Name	Description
[confirm]	**DANTE (PoE) port**	RJ45 port. Connect it to your network switch with a network cable. It carries Dante® audio in and out, and it can power the unit from a PoE switch. The yellow LINK LED stays on once the link is up. The green DATA LED flashes while data is moving.
[confirm]	**Power port**	DC 12V / 1A power input, using the supplied 2-pin Phoenix connector. Use it when your network switch has no PoE.
[confirm]	**SERVICE port**	USB-C port for Bluetooth firmware upgrades.

7. Bluetooth Pairing

You pair and connect Bluetooth devices three ways: with the PAIR button on the front panel, and with two controls on the Input page of the Web GUI, the **Bluetooth Discoverable/Pairing** switch and the **Window Time (30~300s)** switch. The PAIR LED behaves differently depending on how these are set.

DEFAULT STATE

When the unit is new, Bluetooth Discoverable/Pairing is **on** and Window Time is **on** at **60 seconds**. For the first 60 seconds after power-on, the unit can be found and paired. After that, Bluetooth Discoverable/Pairing turns itself off.

WINDOW TIME SWITCH	DISCOVERABLE/PAIRING SWITCH	PAIR LED WITHIN THE 60S WINDOW	PAIR LED AFTER THE 60S WINDOW
ON (60s)	ON	Flashing: no device connected. Steady on: 1 or 2 devices connected.	Off: no device connected. Steady on: 1 or 2 devices connected.

SCENE 1: WINDOW TIME SWITCH SET TO OFF

Short press the PAIR button to start pairing. Bluetooth Discoverable/Pairing turns on and stays on, with no time limit.

WINDOW TIME SWITCH	DISCOVERABLE/PAIRING SWITCH	PAIR LED
OFF → OFF	OFF → ON	Flashing: no device connected. Steady on: 1 or 2 devices connected.

In this mode the unit keeps looking for devices until you stop it, which uses more power. There are two ways to end pairing mode:

- Press and hold the PAIR button for 15 seconds. This returns the unit to its default state.
- Turn off the Bluetooth Discoverable/Pairing switch on the Web GUI Input page.

SCENE 2: WINDOW TIME SWITCH SET TO ON

Set the window anywhere from 30 to 300 seconds, then short press the PAIR button. Bluetooth Discoverable/Pairing turns on for that length of time.

WINDOW TIME SWITCH	DISCOVERABLE/PAIRING SWITCH	PAIR LED WITHIN YOUR WINDOW	PAIR LED AFTER YOUR WINDOW
ON → ON	OFF → ON	Flashing: no device connected. Steady on: 1 or 2 devices connected.	Off: no device connected. Steady on: 1 or 2 devices connected.

To end pairing early and save power, use either of the two methods given in Scene 1.

With one device connected, the unit behaves as described above and the LED stays on.

NOTES

1. **Two devices at most.** Once two devices are connected, pressing PAIR makes the LED flash three times, which means no more devices can join. The Web GUI still works. Even with Discoverable/Pairing on and Window Time off, you must disconnect at least one device before a third can be found and connected. 2. **Two devices connected at once.** The unit switches audio to the second device only when the device now playing pauses or disconnects. 3. **Disconnecting.** Click **Disconnect** beside Connected Device 1 or 2 on the Input page. The pairing stays stored in the Bluetooth module, so that phone or laptop can reconnect from its own Bluetooth menu later. You won't need to put the unit back into pairing mode. 4. **Clearing all pairings.** Press and hold PAIR for 3 seconds, or click **Clear** next to Bluetooth Pairing Record on the Input page. This erases every pairing. Any device that connected before must pair again: first choose "forget" or "ignore" for the unit in that device's Bluetooth settings, then reconnect.

8. Dante® Web GUI Operation

You can control the unit from its built-in Web GUI.

SIGNING IN

1. Connect the unit's DANTE (PoE) port to an Ethernet switch. 2. Connect a PC to the same switch and set the PC's network connection to **Obtain an IP address automatically**. 3. Open Dante® Controller on the PC and find the unit on the **Routing** page. 4. Open the **Device Info** tab to see the unit's IP address. The unit uses DHCP by default, so Dante® Controller is where you find the address it was given. 5. Type that IP address into a browser on the PC to open the sign-in page. 6. Choose the **Admin** account, enter its password and click **Login**. The Information page opens.

There are two accounts. **Admin** opens every page. **User** opens only the Control page (see below).

INFORMATION PAGE

This page shows basic details about the unit: model name, MCU version, Web version, DEP SDK version, Bluetooth version, IP hostname and network settings. To sign out and return to the sign-in page, click the Logout icon in the top right corner.

INPUT PAGE

Input Source 1. **Current Source** shows the audio source in use now. 2. **Source Switch Mode** chooses automatic or manual source switching. 3. **Priority Analog Input** chooses whether the 3.5mm jack or the RCA port has priority.

Analog Input 1. **Left/Right:** type a value or drag the slider to set the analog input volume. Click the mute icon to mute or unmute. 2. **Left/Right Stereo:** when on, the left and right channels move together. When off, you set each channel on its own. 3. **Input Sensitivity:** choose the input sensitivity from the drop-down list.

Bluetooth Input 1. **Bluetooth Name:** change the name the unit shows to phones and laptops, up to 24 bytes. Click **Save** to apply it. 2. **Bluetooth Discoverable/Pairing:** turns Bluetooth discovery and pairing mode on or off. 3. **Window Time (30~300s):** sets how long the unit stays discoverable and pairable after pairing starts. The default is 60 seconds. The switch beside it turns the time limit on or off. 4. **Bluetooth Volume:** type a value or drag the slider to set Bluetooth volume. Click the mute icon to mute or unmute. With Left/Right Stereo on, both channels move together. With it off, you set each channel on its own. 5. **Bluetooth Audio Bridging:** chooses what Bluetooth audio the unit passes:

- **Call bridging** plays call audio only.
- **Media bridging** plays media streams only.
- **Call & Media bridging** plays both.

6. **Connected Device 1/2:** shows the name of each connected device, or N/A when nothing is connected. Click **Disconnect** to drop a device. If two devices are already connected and someone presses PAIR, the LED flashes three times to show that no more can join. 7. **Bluetooth Pairing Record:** click **Clear** to erase all Bluetooth pairings. 8. **Bluetooth Format:** shows the Bluetooth audio format in use. 9. **Backward/Play/Forward:** go to the previous track, play or pause, or go to the next track. 10. **Artist/Album/Track:** shows details of the current song.

OUTPUT PAGE

Analog Output 1. **Output Gain:** choose the analog output gain from the drop-down list. 2. **Left/Right:** type a value or drag the slider to set the output volume. Click the mute icon to mute or unmute. 3. **Delay:** type a value or drag the slider to set the output delay. 4. **Left/Right Stereo:** when on, the left and right channels share volume and delay settings. When off, you set each channel on its own.

DSP PAGE (PEQ SETTING)

1. **Select:** choose the audio channel from the drop-down list. 2. **Stereo:** when on, the left and right channels share one PEQ. When off, each channel has its own. 3. **Frequency points (1~8):** drag any of the eight points on the curve. 4. **Band buttons 1–8:** click a band to select it (it turns orange), then set:

- **Filter Type:** Parametric, Lowpass, Highpass, Low Shelf or High Shelf.
- **Gain [dB]:** -15dB to +15dB.
- **Frequency [Hz]:** 20Hz to 20kHz.
- **Q:** 0.02 to 16.

5. **Clear:** clears the PEQ settings. 6. **Copy PEQ Settings:** tick the input and output channels you want, then click **Update** to copy the current PEQ to them. 7. **Export PEQ Settings:** saves the PEQ settings to a file. 8. **Import PEQ Settings:** loads PEQ settings from a file.

NETWORK PAGE

IP Mode chooses DHCP or Static:

- With **Static**, enter the IP address, subnet mask and gateway yourself, then click **Save**.
- With **DHCP**, the unit fills in the address the router assigns.

On this page you can also set the TCP port, the Telnet port and the domain name.

The domain name is shown as the IP Hostname, and you can type it into a browser to open the Web GUI. Each unit's default domain name is different and ends in ".local". You can change it, up to 32 characters.

Click **Save** to apply your changes or **Cancel** to discard them.

SYSTEM PAGE

- **Account Passwords:** change the sign-in passwords for the User and Admin accounts, then click **Save**. Change both before the unit goes into service.
- **Firmware Update:** updates the MCU and the DEP SDK. Click **Choose File** to pick the update file, then click **Update**. The update is finished when the progress bar reaches 100%.
- **System Utilities:** 1. **Reboot** restarts the unit. 2. **Restore Factory Settings** returns the unit to its KanexPro default settings. 3. **Export Settings** saves the configuration to a file. 4. **Import Settings** loads a configuration file.

CONTROL PAGE

Sign in with the **User** account and its password to open the Control page. Here you can set the analog input, the Bluetooth input and the analog output, just as on the administrator pages.

9. Control with RelayAV

RelayAV is KanexPro's control app. Once the AUD-DTE-WPBTRCA is on a RelayAV site, these controls are in the RelayAV app, and control systems reach the same controls through the RelayAV API and MCP.

- **Bluetooth:** Bluetooth volume; Mute Bluetooth; Open for pairing; Pairing stays open (s); Close pairing by itself; Playing on the phone
- **Source:** Choose the source; Source (Manual); Analog input that comes first
- **Inputs:** Gain (dB); Mute; Left and right together; Sensitivity
- **Output:** Output level; Left and right together; Volume; Mute; Delay (ms)
- **Bluetooth setup:** Bluetooth bridging; Bluetooth name; Disconnect a phone; Forget a paired phone
- **Input EQ:** Set an EQ band; Turn an EQ band on or off; Clear the EQ; Same EQ on left and right; Copy an EQ
- **Output EQ:** Set an EQ band; Turn an EQ band on or off; Clear the EQ

Set elsewhere, or not in RelayAV:

- It sends two Dante channels (the source playing, left and right) and plays two back on its analog output; where they go is set in Dante Controller.
- On its own web page only: exporting and importing its settings, and firmware updates.
- Never from RelayAV: network settings, logins, restart and reset to KanexPro default settings, and the Bluetooth module's firmware.

10. API Commands

You can also control the unit with API commands: 1. Connect the unit's DANTE (PoE) port and a PC to the same switch. 2. Make sure both are on the same LAN. 3. Open a TCP/Telnet command tool on the PC and connect to the unit's IP address on **port 8000**. The default Telnet port is 23.

In the tables below, **x** is the first parameter and **y** the second. Type commands as shown.

SYSTEM SETTING

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
`?`	List all commands	`?`	List of all commands	—
`help`	List all commands	`help`	List of all commands	—
`set reset`	Reset system settings to default. Type "yes" to confirm or "no" to cancel.	`set reset`	Sure to reset system settings to default? Type "yes" after next prompt to confirm…	—
`set reset all`	Reset system and network settings to default. Type "yes" to confirm or "no" to cancel.	`set reset all`	Sure to reset system and network settings to default? Type "yes" after next prompt to confirm…	—
`get status`	Get the unit's current status	`get status`	See *Status report* below	—
`get fw version`	Get firmware versions	`get fw version`	MCU:Vx.x.x WEB:Vx.x.x DEP:Vx.x.x Bluetooth: Vx.x.x	—
`set reboot`	Reboot the unit	`set reboot`	Reboot…	—
`get type`	Get the device model	`get type`	AUD-DTE-WPBTRCA	—

INPUT SETTING

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
`set source switch mode x`	Set source switching. x = 1 Auto, 2 Manual	`set source switch mode 1`	Source switch mode: auto	1 (Auto)
`get source switch mode`	Get source switching mode	`get source switch mode`	Source switch mode: auto	—
`set priority analog input x`	Set analog input priority. x = 1 3.5mm, 2 RCA	`set priority analog input 1`	Priority analog input: 3.5mm	1 (3.5mm)
`get priority analog input`	Get analog input priority	`get priority analog input`	Priority analog input: 3.5mm	—
`set source select x`	Select the source. x = 1 Bluetooth, 2 3.5mm, 3 RCA. Only works in manual mode.	`set source select 1`	Source select: Bluetooth. In auto mode: "Error, please set the source switch mode to manual and try again"	—
`get source select`	Get the selected source	`get source select`	Source select: Bluetooth	—
`get input x gain`	Get input gain. x = 0 All inputs, 1 Bluetooth L, 2 Bluetooth R, 3 3.5mm L, 4 3.5mm R, 5 RCA L, 6 RCA R	`get input 1 gain`	Bluetooth input left gain: 10dB	—
`set input x gain y`	Set input gain. x as above; y = -12 to 12dB in 0.1dB steps	`set input 1 gain 10`	Bluetooth input left gain: 10dB	0dB

continued

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
set input x gain- / set input x gain-y	Lower input gain by y. x as above; y = 0.1 to 24 (leave y empty for 1dB)	set input 1 gain- / set input 1 gain-5	Bluetooth input left gain: -1dB / -5dB	—
set input x gain+ / set input x gain+y	Raise input gain by y. x as above; y = 0.1 to 24 (leave y empty for 1dB)	set input 1 gain+ / set input 1 gain+5	Bluetooth input left gain: 1dB / 5dB	—
set input x stereo on/off	Set input stereo link. x = 0 All inputs, 1 Bluetooth L/R, 2 3.5mm L/R, 3 RCA L/R	set input 1 stereo on	Bluetooth Input Left/Right stereo mode: on	Off
get input x stereo	Get input stereo link status. x as above	get input 1 stereo	Bluetooth input left/right stereo mode: on	—
get input x sensitivity	Get analog input sensitivity. x = 0 All analog inputs, 1 3.5mm, 2 RCA	get input 1 sensitivity	3.5mm input sensitivity: +4dBu	—
set input x sensitivity y	Set analog input sensitivity. x as above; y = 1 +18dBu, 2 +4dBu, 3 0dBu, 4 0dBV, 5 -10dBV, 6 -18dBV	set input 1 sensitivity 1	3.5mm input sensitivity: +18dBu	2 (+4dBu)
set input x mute on/off	Mute or unmute an input. x = 0–6 as for gain	set input 1 mute on	Bluetooth input left mute: on	Off
get input x mute	Get input mute status. x = 0–6	get input 1 mute	Bluetooth input left mute: on	—
set bt name <x>	Set the Bluetooth name, up to 24 bytes	set bt name <Bluetooth Adapter>	Set Bluetooth device name to Bluetooth Adapter-XXXXX	Bluetooth Adapter-XXXXX (XXXXX = last five characters of the unit's MAC address)
get bt name	Get the Bluetooth name	get bt name	Bluetooth Adapter-XXXXX	—
set bt vol x	Set Bluetooth volume. x = 0 to 100	set bt vol 10	Bluetooth volume: 10	50
get bt vol	Get Bluetooth volume	get bt vol	Bluetooth volume: 10	—
set bt vol+ / set bt vol+x	Raise Bluetooth volume by x. x = 1 to 100 (leave x empty for 1)	set bt vol+ / set bt vol+5	Bluetooth volume: 11 / 15	—
set bt vol- / set bt vol-x	Lower Bluetooth volume by x. x = 1 to 100 (leave x empty for 1)	set bt vol- / set bt vol-5	Bluetooth volume: 9 / 5	—
set bt mute on/off	Mute or unmute Bluetooth	set bt mute on	Bluetooth mute: on	—
get bt mute	Get Bluetooth mute status	get bt mute	Bluetooth mute: on	—

continued

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
set bt discoverable/pairing on/off	Turn Bluetooth discovery and pairing on or off	set bt discoverable/pairing on	Bluetooth discoverable/pairing on	On (60s)
get bt discoverable/pairing	Get discovery and pairing status	get bt discoverable/pairing	Bluetooth discoverable/pairing on	—
set bt window time x	Set the pairing window. x = 30 to 300 seconds	set bt window time 60	Bluetooth window time: 60s	60s
get bt window time	Get the pairing window	get bt window time	Bluetooth window time: 60s	—
set bt window switch on/off	Turn the pairing window time limit on or off	set bt window switch on	Bluetooth window switch: on	On
get bt window switch	Get the window switch status	get bt window switch	Bluetooth window switch: on	—
set bt audio bridging x	Set audio bridging. x = 1 Call bridging, 2 Media bridging, 3 Call & Media bridging	set bt audio bridging 1	Bluetooth audio bridging: Call bridging	2 (Media bridging)
get bt audio bridging	Get audio bridging	get bt audio bridging	Bluetooth audio bridging: Call bridging	—
get bt device	Get connected device names	get bt device	Connected device1: <device name> / Connected device2: N/A	—
set bt paired clear x	Clear Bluetooth pairings. x = 0 All, 1 Device 1, 2 Device 2	set bt paired clear 0 / set bt paired clear 1	Clear Bluetooth paired devices / Clear Bluetooth paired device1	—
get bt format	Get the Bluetooth audio format	get bt format	Bluetooth format: SBC	—
set bt play/pause	Play or pause	set bt play/pause	Bluetooth play	—
set bt backward	Previous track	set bt backward	Bluetooth backward	—
set bt forward	Next track	set bt forward	Bluetooth forward	—
get bt connection	Get connection status	get bt connection	Connected device1: Connected / Connected device2: Disconnected	—
get artist	Get the song's artist	get artist	Artist: xxxxxxx	—
get album	Get the song's album	get album	Album: xxxxxxx	—
get track	Get the song's track	get track	Track: xxxxxxx	—

OUTPUT SETTING

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
set output gain x	Set analog output gain. x = 1 +20dBu, 2 +4dBu, 3 0dBu, 4 0dBV, 5 -10dBV	set output gain 2	Analog output gain: +4dBu	2 (+4dBu)
get output gain	Get analog output gain	get output gain	Analog output gain: +4dBu	—
set output stereo on/off	Set output stereo link on or off	set output stereo on	Analog output stereo mode: on	Off
get output stereo	Get output stereo link status	get output stereo	Analog output stereo mode: on	—
set output x vol y	Set output volume. x = 0 All outputs, 1 Left, 2 Right; y = 0 to 100	set output 1 vol 50	Analog output left volume: 50	50
get output x vol	Get output volume. x as above	get output 1 vol	Analog output left volume: 50	—
set output x vol+ / set output x vol+y	Raise output volume by y. y = 1 to 100 (leave y empty for 1)	set output 1 vol+ / set output 1 vol+5	Analog output left volume: 51 / 55	—
set output x vol- / set output x vol-y	Lower output volume by y. y = 1 to 100 (leave y empty for 1)	set output 1 vol- / set output 1 vol-5	Analog output left volume: 49 / 45	—
set output x mute on/off	Mute or unmute an output. x as above	set output 1 mute on	Analog output left mute: on	Off
get output x mute	Get output mute status	get output 1 mute	Analog output left mute: on	—
set output x delay y	Set output delay. x as above; y = 0 to 50ms	set output 1 delay 50	Analog output left delay: 50ms	0ms
get output x delay	Get output delay	get output 1 delay	Analog output left delay: 50ms	—

DSP SETTING

Channel codes x for the EQ commands: 0 All inputs and outputs, 1 Bluetooth input left, 2 Bluetooth input right, 3 3.5mm input left, 4 3.5mm input right, 5 RCA input left, 6 RCA input right, 7 All inputs, 8 RCA/3.5mm output left, 9 RCA/3.5mm output right, 10 All outputs.

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
set x eq y on/off	Turn EQ band y on or off for channel x. x = 0–10; y = 0–8 (0 = all bands)	set 1 eq 0 on	Bluetooth input left EQ: on	Off
get x eq	Get EQ on/off status. x = 0–10	get 1 eq	Bluetooth input left EQ: on	—
set x eq stereo on/off	Link left/right EQ (same settings). x = 0 All inputs/outputs, 1 Bluetooth L/R, 2 3.5mm L/R, 3 RCA L/R, 4 RCA/3.5mm output L/R	set 1 eq stereo on	Bluetooth input left/right EQ stereo mode: on	Off
get x eq stereo	Get EQ stereo link status. x = 0–4	get 1 eq stereo	Bluetooth input left/right EQ stereo mode: on	—

continued

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
set x eq y typ t frq z val aa q bb	Set EQ band y on channel x. t = 1 Parametric, 2 Lowpass, 3 Highpass, 4 Low Shelf, 5 High Shelf; z = 20–20000Hz (1Hz steps); aa = -15 to 15dB (0.1dB steps); bb = 0.02 to 16 (0.01 steps)	`set 1 eq 1 typ 1 frq 200 val -15 q 0.02`	Bluetooth input left EQ 1: Type, Frequency: 200Hz, Value: -15dB, Q: 0.02	—
get x eq setting	Get the EQ band settings for channel x. x = 0–10	`get 1 eq setting`	Bluetooth input left EQ, one line per band (Type, Frequency, Value, Q)	—
set x eq copy to y	Copy channel x's EQ to channel y	`set 1 eq copy to 2`	Set Bluetooth input left EQ copy to Bluetooth input right	—
set x eq clear	Clear the EQ settings for channel x. x = 0–10	`set 1 eq clear`	Clear Bluetooth input left EQ	—

NETWORK SETTING

After you change any network setting, send `set net reboot` or power the unit off and on to apply it. You can only set a static address, subnet mask or gateway after you turn DHCP off. If you try while DHCP is on, the unit replies "DHCP on, Device can't config …, set DHCP off first."

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
set ip mode x	Set IP mode. x = 0 Static, 1 DHCP	`set ip mode 0`	IP mode: Static (Please use "set net reboot" command or repower device to apply new config!)	1 (DHCP)
get ip mode	Get IP mode	`get ip mode`	IP mode: DHCP	—
set ip addr xxx.xxx.xxx.xxx	Set a static IP address	`set ip addr xxx.xxx.xxx.xxx`	IP address: xxx.xxx.xxx.xxx (apply with set net reboot)	—
get ip addr	Get the IP address	`get ip addr`	IP: xxx.xxx.xxx.xxx	—
set subnet xxx.xxx.xxx.xxx	Set the subnet mask	`set subnet 255.255.255.0`	Subnet mask: 255.255.255.0 (apply with set net reboot)	—
get subnet	Get the subnet mask	`get subnet`	Subnet mask: 255.255.255.0	—
set gateway xxx.xxx.xxx.xxx	Set the gateway	`set gateway xxx.xxx.xxx.xxx`	Gateway: xxx.xxx.xxx.xxx (apply with set net reboot)	—
get gateway	Get the gateway	`get gateway`	Gateway: xxx.xxx.xxx.xxx	—
get ipconfig	Get the full IP configuration	`get ipconfig`	IP mode, IP, Subnet mask, Gateway, TCP/IP port: 8000, Telnet port: 23, MAC: xx:xx:xx:xx:xx:xx	—

continued

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
get mac addr	Get the MAC address	`get mac addr`	MAC: xx:xx:xx:xx:xx:xx	—
set tcp/ip port x	Set the TCP/IP control port. x = 1–65535	`set tcp/ip port 8000`	TCP/IP port: 8000	8000
get tcp/ip port	Get the TCP/IP control port	`get tcp/ip port`	TCP/IP port: 8000	—
set telnet port x	Set the Telnet port. x = 1–65535	`set telnet port 23`	Telnet port: 23	23
get telnet port	Get the Telnet port	`get telnet port`	Telnet port: 23	—
set net hostname xxxx	Set the network hostname, up to 32 characters	`set net hostname <name>`	Hostname: <name>	—
get net hostname	Get the network hostname	`get net hostname`	Hostname: <name>	—
set net reboot	Restart the network module and apply network changes	`set net reboot`	Network reboot… Search for IP, Please wait …! followed by the current IP configuration	—

STATUS REPORT

`get status` returns a report like this:

`` ========== Status Info 2x2 Dante Wall Plate with Bluetooth MCU:V2.0.0 WEB:V1.00.09 DEP:V1.3.3.5_20260115 Bluetooth:V0.4.2 Input Name Stereo Sensitivity Gain(dB) Mute 01 Bluetooth input left Off N/A 0 Off 02 Bluetooth input right Off N/A 0 Off 03 3.5mm input left Off +4dBu 0 Off 04 3.5mm input right Off +4dBu 0 Off 05 RCA input left Off +4dBu 0 Off 06 RCA input right Off +4dBu 0 Off Bluetooth: Bluetooth Name: Bluetooth Adapter-XXXXX Discoverable/Pairing: Off Window Time: 60s Window Switch: On Bluetooth Volume: 50 Bluetooth Bridging: Media bridging Connected device1: <device name> Connected device2: N/A Bluetooth Format: aptX Output Name Gain(dB) Stereo Volume Mute Delay(ms) 01 RCA/3.5mm output left +4dBu Off 50 Off 0 02 RCA/3.5mm output right +4dBu Off 50 Off 0 TCP/IP Telnet MAC 8000 23 xx:xx:xx:xx:xx:xx DHCP IP Gateway SubnetMask On xxx.xxx.xxx.xxx xxx.xxx.xxx.xxx 255.255.255.000 (Static: xxx.xxx.xxx.xxx xxx.xxx.xxx.xxx 255.255.255.000) ========== ``

11. Certifications

- **FCC Part 15, Class B.** This equipment has been tested and found to comply with the limits for a Class B digital device under Part 15 of the FCC Rules. These limits give reasonable protection against harmful interference in a residential installation.
  The equipment generates, uses and can radiate radio-frequency energy. If it is not installed and used as instructed, it may cause harmful interference to radio communications, and there is no guarantee that interference will not occur in a particular installation. If it does interfere with radio or television reception, which you can check by turning the equipment off and on, try one or more of the following:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a different circuit from the receiver.
- Consult the dealer or an experienced radio/TV technician.
  This device complies with Part 15 of the FCC Rules. Operation is subject to two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

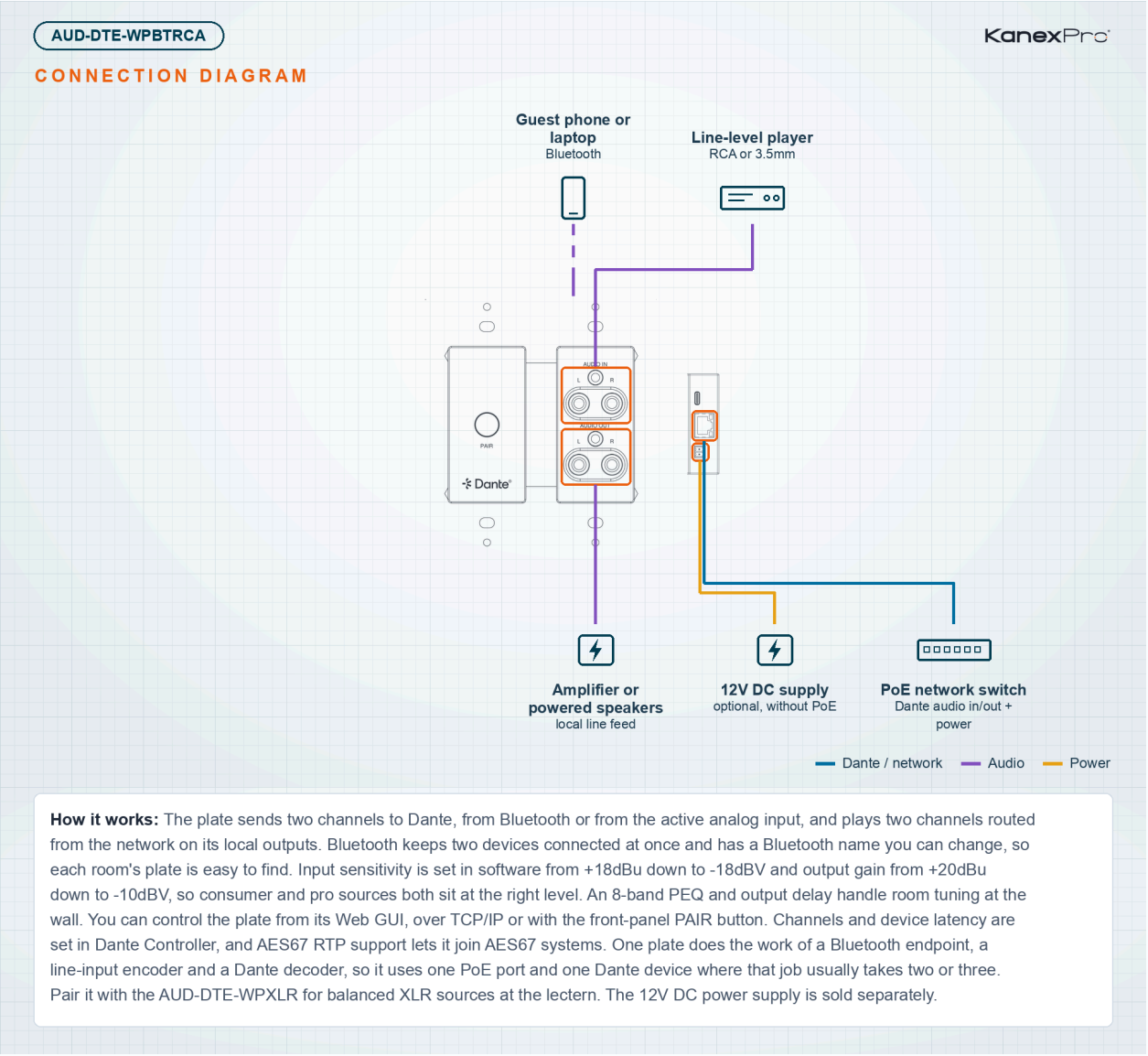
  Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

- **RF exposure.** The device has been evaluated to meet general RF exposure requirements and can be used without restriction.
  No CE, RoHS or UL marks appear in the manual.

12. Trademarks

Dante® is a registered trademark of Audinate Pty Ltd. All other trademarks are the property of their respective owners.

13. Connection Diagram



How it works: The plate sends two channels to Dante, from Bluetooth or from the active analog input, and plays two channels routed from the network on its local outputs. Bluetooth keeps two devices connected at once and has a Bluetooth name you can change, so each room's plate is easy to find. Input sensitivity is set in software from +18dBu down to -18dBV and output gain from +20dBu down to -10dBV, so consumer and pro sources both sit at the right level. An 8-band PEQ and output delay handle room tuning at the wall. You can control the plate from its Web GUI, over TCP/IP or with the front-panel PAIR button. Channels and device latency are set in Dante Controller, and AES67 RTP support lets it join AES67 systems. One plate does the work of a Bluetooth endpoint, a line-input encoder and a Dante decoder, so it uses one PoE port and one Dante device where that job usually takes two or three. Pair it with the AUD-DTE-WPXLR for balanced XLR sources at the lectern. The 12V DC power supply is sold separately.

14. Troubleshooting

Q: The plate does not power up. What should I check?
A: First, look at the link and data LEDs on the RJ45 port. If they are off, check that the switch port supplies IEEE 802.3af PoE and that the cable is CAT6/6A/7 and no longer than 328ft (100m). If the switch has no PoE, power the plate from a 12V/1A supply on the 2-pin Phoenix DC input.

Q: A phone cannot find or pair with the plate. What should I check?
A: Press the front-panel PAIR button and watch for its blue LED. On the phone, look for the plate's own Bluetooth name, which may have been renamed for that room. Up to two devices can be connected at once, so check what is already paired.

Q: The plate does not appear in Dante Controller, or no network audio arrives. What should I check?
A: Confirm the RJ45 link and data LEDs are lit and the switch port runs at least 100Mbps. The plate uses DHCP by default, so if the network has no DHCP server, set a static IP. Then check in Dante Controller that its 2 transmit and 2 receive channels are routed to the right devices.

Need help? — For additional support, visit kanexpro.com/support, or scan the QR code below for the product page.

15. Installation FAQ

Q: What does the network switch port need to provide?
A: The port must support IEEE 802.3af PoE (the plate is Class 0 and draws 3W max) and a 100Mbps link. Use CAT6, 6A or 7 cable up to 328ft (100m) from the switch.

Q: Does the plate need a DHCP server on the network?
A: By default it gets its address over DHCP. If the network has no DHCP server, give it a static IP address instead.

Q: Can an RCA source and a 3.5mm source be plugged in at the same time?
A: Yes. Both can stay plugged in, and the input selection switches between Bluetooth, RCA and the 3.5mm jack, so only one source is sent to Dante at a time. Both analog outputs, RCA and 3.5mm, are active together.

Q: What is the USB-C port on the front for?
A: The USB-C port is a service port used only to upgrade the Bluetooth firmware. It does not carry audio or power.

16. Integration FAQ

Q: How do the Dante channels map to the plate's inputs and outputs?
A: The plate sends 2 Dante channels carrying the selected Bluetooth or analog input. It receives 2 Dante channels that feed the analog outputs, and both are routed in Dante Controller like any other Dante device.

Q: Can a third-party control system operate the AUD-DTE-WPBTRCA?
A: Yes. It has a TCP/IP API on port 8000 and Telnet on port 23, so a control processor can operate it over the network. It can also be managed through its Web GUI, which has Admin and User accounts.

Q: Will it work with AES67 systems?
A: Yes. Besides Dante, it supports AES67 RTP audio transport, so it can exchange audio with AES67 devices on the same network.

Q: Where is the plate's setup done, and what is set where?
A: Dante routing and device latency are set in Dante Controller. Input sensitivity, output gain, EQ, delay, the Bluetooth name and the IP settings are set in the control software (Web GUI or TCP/IP API). Bluetooth pairing is started with the front-panel PAIR button.

Q: Can I control it from the RelayAV app?
A: Yes. RelayAV, KanexPro's control app, gives you Bluetooth volume, mute and pairing, the source, input gain, mute and sensitivity, output volume, mute, delay and level, input and output EQ, and the Bluetooth name and paired phones. Control systems reach the same controls through the RelayAV API and MCP. Where its Dante channels go is set in Dante Controller.