AUD-DTE-WPBTRCA Control4 Driver Guide

For Composer Pro · Driver version 1.0.2

The KanexPro AUD-DTE-WPBTRCA driver lets a Control4 system control the AUD-DTE-WPBTRCA over the network. It talks to the unit's own control port (TCP 8000): no other KanexPro software and no RS-232 cable are needed. Each control is a programming command, and each reading is a variable that follows changes made on the unit's front panel, remote or web page.

> **Before you start —** the Control4 controller must reach the AUD-DTE-WPBTRCA on TCP port 8000. Give the unit a fixed IP address (or a DHCP reservation).

TABLE OF CONTENTS

1. Install the driver
2. Properties
3. Programming commands
4. Variables
5. Troubleshooting

1. INSTALL THE DRIVER

1. Download **KanexPro-AUD-DTE-WPBTRCA-C4-1.0.2.zip** from the AUD-DTE-WPBTRCA page on kanexpro.com (Resources) and unzip it.
2. In Composer Pro, add the driver from the file `KanexPro-AUD-DTE-WPBTRCA-C4.c4z` (Driver > Add or Update Driver, or drag the file in).
3. Add it to the project in the room where the unit is.
4. Select it and set its properties (section 2). **Connection** shows Connected once it reaches the unit.

> **One driver per unit —** for two AUD-DTE-WPBTRCA units, add the driver twice and give each its own IP address.

2. PROPERTIES

DRIVER PROPERTIES	
IP Address	The AUD-DTE-WPBTRCA's address on the control network. Empty by default.
Port	8000 (TCP), the unit's control port. Change it only if the unit's own web page was set to another port.
Poll Interval	How often, in seconds, the driver reads the unit back. Default 10; 0 reads it only after a change from Control4.
Debug Mode	On prints every command and reply to the Lua output.
Connection	Read only: Connected, Connecting, Not connected (and why), Refused (and which command), or No IP address.
Driver Version	Read only: 1.0.2.

Action: **Reconnect** connects again at once.

3. PROGRAMMING COMMANDS

24 commands. Use them in Composer's Programming view, from any event.

#	Command	Parameters	What it does
1	**Bluetooth volume**	Level (0 to 100)	Sets the bluetooth volume, from 0 to 100.
2	**Mute Bluetooth**	State (a list: On, Off)	Mute Bluetooth: on or off.
3	**Open for pairing**	State (a list: On, Off)	Open for pairing: on or off.

4	**Pairing stays open (s)**	Level (30 to 300)	Sets the pairing stays open (s), from 30 to 300.
5	**Close pairing by itself**	State (a list: On, Off)	Close pairing by itself: on or off.
6	**Choose the source**	Value (a list: Auto, Manual)	Sets the choose the source. Choices: Auto; Manual.
7	**Source (Manual)**	Value (a list: Bluetooth, 3.5 mm, RCA)	Sets the source (Manual). Choices: Bluetooth; 3.5 mm; RCA.
8	**Analog input that comes first**	Value (a list: 3.5 mm, RCA)	Sets the analog input that comes first. Choices: 3.5 mm; RCA.
9	**Gain (dB)**	Input (a list: Bluetooth, 3.5 mm in, RCA in, In 4 ...); Value (a list: -12, -11, -10, -9 ...)	Sets the gain (dB) on the input you pick. Choices: -12; -11; -10; -9; -8, and 20 more.
10	**Mute**	Input (a list: Bluetooth, 3.5 mm in, RCA in, In 4 ...); State (a list: On, Off)	Mute: on or off on the input you pick.
11	**Left and right together**	Pair (a list: Bluetooth, 3.5 mm, RCA); State (a list: On, Off)	Left and right together: on or off.
12	**Sensitivity**	Input (a list: Bluetooth, 3.5 mm in); Value (a list: +18 dBu, +4 dBu, 0 dBu, 0 dBV ...)	Sets the sensitivity on the input you pick. Choices: +18 dBu; +4 dBu; 0 dBu; 0 dBV; -10 dBV, and 1 more.
13	**Output level**	Value (a list: +20 dBu, +4 dBu, 0 dBu, 0 dBV ...)	Sets the output level. Choices: +20 dBu; +4 dBu; 0 dBu; 0 dBV; -10 dBV.
14	**Left and right together (Out stereo)**	State (a list: On, Off)	Left and right together: on or off.
15	**Volume**	Output (a list: Analog out left, Analog out right); Level (0 to 100)	Sets the volume on the output you pick, from 0 to 100.
16	**Mute (Out mute)**	Output (a list: Analog out left, Analog out right); State (a list: On, Off)	Mute: on or off on the output you pick.
17	**Delay (ms)**	Output (a list: Analog out left, Analog out right); Value (a list: 0, 1, 2, 3 ...)	Sets the delay (ms) on the output you pick. Choices: 0; 1; 2; 3; 4, and 46 more.
18	**Playing on the phone**	Value (a list: Previous, Play / pause, Next)	Sets the playing on the phone. Choices: Previous; Play / pause; Next.
19	**Bluetooth bridging**	Value (a list: Call, Media, Call and media)	Sets the bluetooth bridging. Choices: Call; Media; Call and media.

20	**Disconnect a phone**	Button (a list: Both phones, Phone 1, Phone 2)	Presses the button you pick: Both phones, Phone 1, Phone 2.
21	**Forget a paired phone**	Button (a list: Both phones, Phone 1, Phone 2)	Presses the button you pick: Both phones, Phone 1, Phone 2.
22	**Clear the EQ**	Input (a list: Bluetooth, 3.5 mm in, RCA in, In 4 ...)	Press to clear the EQ on the input you pick.
23	**Clear the EQ (Out eq clear)**	Output (a list: Analog out left, Analog out right)	Press to clear the EQ on the output you pick.
24	**Same EQ on left and right**	Pair (a list: Bluetooth, 3.5 mm, RCA, Analog out); State (a list: On, Off)	Same EQ on left and right: on or off.

4. VARIABLES

`STATUS` is the Connection text. The others follow the unit, whoever changes it:

#	Variable	Kind	What it holds
1	`BT_VOLUME`	number	Bluetooth volume
2	`BT_MUTE`	on/off	Mute Bluetooth
3	`BT_PAIRING`	on/off	Open for pairing
4	`BT_WINDOW`	number	Pairing stays open (s)
5	`BT_WINDOW_ON`	on/off	Close pairing by itself
6	`OUT_STEREO`	on/off	Left and right together
7	`BT_BRIDGING`	text	Readings Bluetooth bridging
8	`BT_NAME`	text	Readings Bluetooth name
9	`FIRMWARE`	text	Readings Firmware
10	`BT_ARTIST`	text	Readings Artist
11	`BT_ALBUM`	text	Readings Album
12	`BT_TRACK`	text	Readings Track
13	`BT_FORMAT`	text	Readings Bluetooth format

5. TROUBLESHOOTING

Connection says Not connected.
Check the IP Address property against the unit's address (its front panel or its own web page). A unit on DHCP may have moved: give it a fixed address or a DHCP reservation. The driver tries again every 5 seconds by itself; the Reconnect action tries at once.

The address is right, but it still does not connect.
The Control4 controller and the unit must reach each other: the same network or VLAN, or a route between them. A firewall or switch ACL between them must allow TCP port 8000 to the unit. Leave the Port property at 8000 unless the unit's own web page was set to another port.

Connection says Refused, and names a command.
The unit refused that change. It may be in standby: turn it on first.

Changes made on the unit do not show in Control4.
Set Poll Interval above 0. Changes made on the unit's front panel, remote or web page then show in its variables within that many seconds.

I need to see what the driver sends.
Set Debug Mode to On: the Lua output in Composer shows every command sent and every reply.