AUD-DTE-2X2XLR Control4 Driver Guide

For Composer Pro · Driver version 1.0.0

The KanexPro AUD-DTE-2X2XLR driver lets a Control4 system control the AUD-DTE-2X2XLR 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-2X2XLR 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-2X2XLR-C4-1.0.0.zip** from the AUD-DTE-2X2XLR page on kanexpro.com (Resources) and unzip it.
2. In Composer Pro, add the driver from the file `KanexPro-AUD-DTE-2X2XLR-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-2X2XLR units, add the driver twice and give each its own IP address.

2. PROPERTIES

DRIVER PROPERTIES	
IP Address	The AUD-DTE-2X2XLR'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: 1.0.0.

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

3. PROGRAMMING COMMANDS

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

#	Command	Parameters	What it does
1	**Gain (dB)**	Output (a list: XLR out 1, XLR out 2); Level (-60 to 12)	Sets the gain (dB) on the output you pick, from -60 to 12.

2	**Mute**	Output (a list: XLR out 1, XLR out 2); State (a list: On, Off)	Mute: on or off on the output you pick.
3	**Delay (ms)**	Output (a list: XLR out 1, XLR out 2); Value (a list: 0, 1, 2, 3 ...)	Sets the delay (ms) on the output you pick. Choices: 0; 1; 2; 3; 4, and 36 more.
4	**Output level**	Output (a list: XLR out 1, XLR out 2); Value (a list: +20 dBu, +14 dBu, +4 dBu, 0 dBV ...)	Sets the output level on the output you pick. Choices: +20 dBu; +14 dBu; +4 dBu; 0 dBV; -18 dBV.
5	**Gain (dB) (In gain)**	Input (a list: XLR in 1, XLR in 2); Level (-60 to 12)	Sets the gain (dB) on the input you pick, from -60 to 12.
6	**Mute (In mute)**	Input (a list: XLR in 1, XLR in 2); State (a list: On, Off)	Mute: on or off on the input you pick.
7	**Sensitivity**	Input (a list: XLR in 1, XLR in 2); Value (a list: +24 dBu, +14 dBu, +4 dBu, 0 dBV ...)	Sets the sensitivity on the input you pick. Choices: +24 dBu; +14 dBu; +4 dBu; 0 dBV; -18 dBV, and 1 more.
8	**Delay (ms) (In delay)**	Input (a list: XLR in 1, XLR in 2); Value (a list: 0, 1, 2, 3 ...)	Sets the delay (ms) on the input you pick. Choices: 0; 1; 2; 3; 4, and 36 more.
9	**Volume**	Dca (a list: Input DCA 1, Input DCA 2); Level (0 to 100)	Sets the volume, from 0 to 100.
10	**Mute (In dca mute)**	Dca (a list: Input DCA 1, Input DCA 2); State (a list: On, Off)	Mute: on or off.
11	**Volume (Out dca vol)**	Dca (a list: Output DCA 1, Output DCA 2); Level (0 to 100)	Sets the volume, from 0 to 100.
12	**Mute (Out dca mute)**	Dca (a list: Output DCA 1, Output DCA 2); State (a list: On, Off)	Mute: on or off.
13	**EQ on**	Output (a list: XLR out 1, XLR out 2); State (a list: On, Off)	EQ on: on or off on the output you pick.
14	**Clear the EQ**	Output (a list: XLR out 1, XLR out 2)	Press to clear the EQ on the output you pick.
15	**EQ on (In eq on)**	Input (a list: XLR in 1, XLR in 2); State (a list: On, Off)	EQ on: on or off on the input you pick.
16	**Clear the EQ (In eq clear)**	Input (a list: XLR in 1, XLR in 2)	Press to clear the EQ on the input you pick.

17	**Expander on**	Input (a list: XLR in 1, XLR in 2); State (a list: On, Off)	Expander on: on or off on the input you pick.
18	**Clear the expander**	Input (a list: XLR in 1, XLR in 2)	Press to clear the expander on the input you pick.
19	**Limiter on**	Output (a list: XLR out 1, XLR out 2); State (a list: On, Off)	Limiter on: on or off on the output you pick.
20	**Clear the limiter**	Output (a list: XLR out 1, XLR out 2)	Press to clear the limiter on the output you pick.
21	**Presets**	Button (a list: 1, 2, 3, 4 ...)	Presses the button you pick: 1, 2, 3, 4, 5, 6, 7, 8.
22	**Save**	Button (a list: 1, 2, 3, 4 ...)	Presses the button you pick: 1, 2, 3, 4, 5, 6, 7, 8.
23	**Clear a preset**	Button (a list: 1, 2, 3, 4 ...)	Presses the button you pick: 1, 2, 3, 4, 5, 6, 7, 8.
24	**Standby after no sound (min, 0 = never)**	Level (0 to 100)	Sets the standby after no sound (min, 0 = never), from 0 to 100.
25	**Standby kind**	Value (a list: Standby, Sleep)	Sets the standby kind. Choices: Standby; Sleep.
26	**Power**	Button (a list: On, Standby)	Presses the button you pick: On, Standby.

4. VARIABLES

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

#	Variable	Kind	What it holds
1	`IN_DCA_VOL_DCA1`	number	Input DCA 1 Volume
2	`IN_DCA_VOL_DCA2`	number	Input DCA 2 Volume
3	`IN_DCA_MUTE_DCA1`	on/off	Input DCA 1 Mute
4	`IN_DCA_MUTE_DCA2`	on/off	Input DCA 2 Mute
5	`OUT_DCA_VOL_DCA1`	number	Output DCA 1 Volume
6	`OUT_DCA_VOL_DCA2`	number	Output DCA 2 Volume
7	`OUT_DCA_MUTE_DCA1`	on/off	Output DCA 1 Mute
8	`OUT_DCA_MUTE_DCA2`	on/off	Output DCA 2 Mute
9	`EQ_ON_OUT1`	on/off	XLR out 1 EQ on
10	`EQ_ON_OUT2`	on/off	XLR out 2 EQ on
11	`IN_EQ_ON_IN1`	on/off	XLR in 1 EQ on
12	`IN_EQ_ON_IN2`	on/off	XLR in 2 EQ on
13	`IN_EXP_ON_IN1`	on/off	XLR in 1 Expander on
14	`IN_EXP_ON_IN2`	on/off	XLR in 2 Expander on
15	`OUT_LIM_ON_OUT1`	on/off	XLR out 1 Limiter on
16	`OUT_LIM_ON_OUT2`	on/off	XLR out 2 Limiter on

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.