AUD-DTE-8X8LINE Control4 Driver Guide

For Composer Pro · Driver version 1.0.0

The KanexPro AUD-DTE-8X8LINE driver lets a Control4 system control the AUD-DTE-8X8LINE 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-8X8LINE on TCP port 8000. Give the unit a fixed IP address (or a DHCP reservation).

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1. INSTALL THE DRIVER

1. Download **KanexPro-AUD-DTE-8X8LINE-C4-1.0.0.zip** from the AUD-DTE-8X8LINE page on kanexpro.com (Resources) and unzip it.
2. In Composer Pro, add the driver from the file `KanexPro-AUD-DTE-8X8LINE-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-8X8LINE units, add the driver twice and give each its own IP address.

2. PROPERTIES

DRIVER PROPERTIES	
IP Address	The AUD-DTE-8X8LINE'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: Line out 1, Line out 2, Line out 3, Line out 4 ...); Level (-60 to 12)	Sets the gain (dB) on the output you pick, from -60 to 12.

2	**Mute**	Output (a list: Line out 1, Line out 2, Line out 3, Line out 4 ...); State (a list: On, Off)	Mute: on or off on the output you pick.
3	**Delay (ms)**	Output (a list: Line out 1, Line out 2, Line out 3, Line out 4 ...); 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: Line out 1, Line out 2, Line out 3, Line out 4 ...); 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: Line in 1, Line in 2, Line in 3, Line in 4 ...); Level (-60 to 12)	Sets the gain (dB) on the input you pick, from -60 to 12.
6	**Mute (In mute)**	Input (a list: Line in 1, Line in 2, Line in 3, Line in 4 ...); State (a list: On, Off)	Mute: on or off on the input you pick.
7	**Sensitivity**	Input (a list: Line in 1, Line in 2, Line in 3, Line in 4 ...); 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: Line in 1, Line in 2, Line in 3, Line in 4 ...); 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, Input DCA 3, Input DCA 4); 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, Input DCA 3, Input DCA 4); State (a list: On, Off)	Mute: on or off.
11	**Volume (Out dca vol)**	Dca (a list: Output DCA 1, Output DCA 2, Output DCA 3, Output DCA 4); 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, Output DCA 3, Output DCA 4); State (a list: On, Off)	Mute: on or off.

13	**EQ on**	Output (a list: Line out 1, Line out 2, Line out 3, Line out 4 ...); State (a list: On, Off)	EQ on: on or off on the output you pick.
14	**Clear the EQ**	Output (a list: Line out 1, Line out 2, Line out 3, Line out 4 ...)	Press to clear the EQ on the output you pick.
15	**EQ on (In eq on)**	Input (a list: Line in 1, Line in 2, Line in 3, Line in 4 ...); 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: Line in 1, Line in 2, Line in 3, Line in 4 ...)	Press to clear the EQ on the input you pick.
17	**Expander on**	Input (a list: Line in 1, Line in 2, Line in 3, Line in 4 ...); State (a list: On, Off)	Expander on: on or off on the input you pick.
18	**Clear the expander**	Input (a list: Line in 1, Line in 2, Line in 3, Line in 4 ...)	Press to clear the expander on the input you pick.
19	**Limiter on**	Output (a list: Line out 1, Line out 2, Line out 3, Line out 4 ...); State (a list: On, Off)	Limiter on: on or off on the output you pick.
20	**Clear the limiter**	Output (a list: Line out 1, Line out 2, Line out 3, Line out 4 ...)	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_VOL_DCA3	number	Input DCA 3 Volume
4	IN_DCA_VOL_DCA4	number	Input DCA 4 Volume
5	IN_DCA_MUTE_DCA1	on/off	Input DCA 1 Mute
6	IN_DCA_MUTE_DCA2	on/off	Input DCA 2 Mute
7	IN_DCA_MUTE_DCA3	on/off	Input DCA 3 Mute
8	IN_DCA_MUTE_DCA4	on/off	Input DCA 4 Mute
9	OUT_DCA_VOL_DCA1	number	Output DCA 1 Volume
10	OUT_DCA_VOL_DCA2	number	Output DCA 2 Volume
11	OUT_DCA_VOL_DCA3	number	Output DCA 3 Volume
12	OUT_DCA_VOL_DCA4	number	Output DCA 4 Volume
13	OUT_DCA_MUTE_DCA1	on/off	Output DCA 1 Mute
14	OUT_DCA_MUTE_DCA2	on/off	Output DCA 2 Mute
15	OUT_DCA_MUTE_DCA3	on/off	Output DCA 3 Mute
16	OUT_DCA_MUTE_DCA4	on/off	Output DCA 4 Mute
17	EQ_ON_OUT1	on/off	Line out 1 EQ on
18	EQ_ON_OUT2	on/off	Line out 2 EQ on
19	EQ_ON_OUT3	on/off	Line out 3 EQ on
20	EQ_ON_OUT4	on/off	Line out 4 EQ on
21	EQ_ON_OUT5	on/off	Line out 5 EQ on
22	EQ_ON_OUT6	on/off	Line out 6 EQ on
23	EQ_ON_OUT7	on/off	Line out 7 EQ on
24	EQ_ON_OUT8	on/off	Line out 8 EQ on
25	IN_EQ_ON_IN1	on/off	Line in 1 EQ on
26	IN_EQ_ON_IN2	on/off	Line in 2 EQ on
27	IN_EQ_ON_IN3	on/off	Line in 3 EQ on
28	IN_EQ_ON_IN4	on/off	Line in 4 EQ on
29	IN_EQ_ON_IN5	on/off	Line in 5 EQ on
30	IN_EQ_ON_IN6	on/off	Line in 6 EQ on
31	IN_EQ_ON_IN7	on/off	Line in 7 EQ on
32	IN_EQ_ON_IN8	on/off	Line in 8 EQ on
33	IN_EXP_ON_IN1	on/off	Line in 1 Expander on
34	IN_EXP_ON_IN2	on/off	Line in 2 Expander on
35	IN_EXP_ON_IN3	on/off	Line in 3 Expander on
36	IN_EXP_ON_IN4	on/off	Line in 4 Expander on
37	IN_EXP_ON_IN5	on/off	Line in 5 Expander on
38	IN_EXP_ON_IN6	on/off	Line in 6 Expander on
39	IN_EXP_ON_IN7	on/off	Line in 7 Expander on
40	IN_EXP_ON_IN8	on/off	Line in 8 Expander on
41	OUT_LIM_ON_OUT1	on/off	Line out 1 Limiter on

42	OUT_LIM_ON_OUT2	on/off	Line out 2 Limiter on
43	OUT_LIM_ON_OUT3	on/off	Line out 3 Limiter on
44	OUT_LIM_ON_OUT4	on/off	Line out 4 Limiter on
45	OUT_LIM_ON_OUT5	on/off	Line out 5 Limiter on
46	OUT_LIM_ON_OUT6	on/off	Line out 6 Limiter on
47	OUT_LIM_ON_OUT7	on/off	Line out 7 Limiter on
48	OUT_LIM_ON_OUT8	on/off	Line out 8 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.