AUD-DTE-4X4LINE Q-SYS Plugin Guide

For Q-SYS Designer · Plugin version 1.0.6

The KanexPro AUD-DTE-4X4LINE plugin lets a Q-SYS system control the AUD-DTE-4X4LINE 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. Every control has a pin, so it can be wired to UCI buttons, logic and scripts like any Q-SYS control, and the plugin reads the unit back so changes made on its front panel, remote or web page show in Q-SYS.

> **Before you start —** the Q-SYS Core must reach the AUD-DTE-4X4LINE on TCP port 8000. Give the unit a fixed IP address (or a DHCP reservation).

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1. WHAT THE PLUGIN DOES

It controls: volume, mute everything, mute, delay (ms), output level, gain (dB), sensitivity, EQ, same EQ on the pair, clear the EQ, presets, save, clear a preset, standby after no sound (min, 0 = never), standby kind, power.

Settings that only the unit's own web page has (its network, logins and firmware) stay on that page.

2. BEFORE YOU START

- ✓ Q-SYS Designer on a Windows computer, and a Q-SYS Core.
- ✓ The AUD-DTE-4X4LINE on the same network as the Core, or routed to it, with TCP port 8000 open between them.
- ✓ The unit's IP address (front panel or its own web page).

3. INSTALL THE PLUGIN

1. Download **KanexPro-AUD-DTE-4X4LINE-QSYS-1.0.6.zip** from the AUD-DTE-4X4LINE page on kanexpro.com (Resources) and unzip it.
2. Copy `KanexPro-AUD-DTE-4X4LINE.qplug` into `Documents\QSC\Q-Sys Designer\Plugins` on the Q-SYS Designer computer, or drag the file onto Designer's window.
3. Restart Q-SYS Designer. The plugin appears in Schematic Elements under **Plugins > KanexPro**.
4. Drag it into the design, select it and set its properties (section 4).
5. Save the design to the Core and run it. The plugin connects by itself and shows its state on its Status control.

> **One plugin per unit —** for two AUD-DTE-4X4LINE units, add the plugin twice and give each its own IP address.

4. PROPERTIES

PLUGIN PROPERTIES	
IP Address	The AUD-DTE-4X4LINE'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 plugin reads the unit back. Default 10; 0 reads it only after a change from Q-SYS.

5. THE PLUGIN IN Q-SYS DESIGNER



The AUD-DTE-4X4LINE plugin's control panel in Q-SYS Designer

6. CONTROLS

70 controls. Where a control is repeated for each input or output, it is listed once.

#	Control	Where	What it does
0	**Status**	the plugin	Shows whether the plugin is connected to the unit, and why not (section 7).
1	**Volume**	the unit	Sets the volume, from 0 to 100. Moves the outputs set as members of the master volume (all of them out of the box).
2	**Mute everything**	the unit	Turns the mute everything on or off.
3	**Volume**	each output	Sets the volume on each output, from 0 to 100.
4	**Mute**	each output	Turns the mute on or off on each output.

5	**Delay (ms)**	each output	Sets the delay (ms) on each output. Choices: 0; 1; 2; 3; 4, and 46 more.
6	**Output level**	each output	Sets the output level on each output. Choices: +20 dBu; +14 dBu; +4 dBu; 0 dBV; -18 dBV.
7	**Gain (dB)**	each input	Sets the gain (dB) on each input. Choices: -12; -11; -10; -9; -8, and 20 more.
8	**Mute**	each input	Turns the mute on or off on each input.
9	**Sensitivity**	each input	Sets the sensitivity on each input. Choices: +24 dBu; +14 dBu; +4 dBu; 0 dBV; -18 dBV, and 1 more.
10	**EQ**	each output	Sets the EQ on each output. Choices: Flat; Custom 1; Custom 2.
11	**Same EQ on the pair**	each pair	Turns the same EQ on the pair on or off on each pair.
12	**Clear the EQ**	buttons 1 to 4	Clears that preset.
13	**EQ**	each input	Sets the EQ on each input. Choices: Flat; Custom 1; Custom 2.
14	**Clear the EQ**	buttons 1 to 4	Clears that preset.
15	**Presets**	buttons 1 to 5	Recalls that preset.
16	**Save**	buttons 1 to 5	Saves the unit's current settings as that preset.
17	**Clear a preset**	buttons 1 to 5	Clears that preset.
18	**Standby after no sound (min, 0 = never)**	the unit	Sets the standby after no sound (min, 0 = never), from 0 to 100.
19	**Standby kind**	the unit	Sets the standby kind. Choices: Standby; Sleep.
20	**Power**	buttons 1 to 2	On: turns the unit on. Standby: puts the unit in standby.

7. STATUS

STATUS CONTROL	
OK (green)	Connected to the unit and reading it back.
Initializing (blue)	Connecting. It tries again every few seconds by itself.
Fault (red)	Not connected, with the reason: the unit does not answer, or the connection was refused or closed.
Compromised (orange)	Connected, but the unit refused the last change. The text names it. The control returns to what the unit reports at the next read.
Not Present (grey)	No IP address is set in the plugin's properties.

8. TROUBLESHOOTING

The Status control shows Fault and it does not connect.
Check the IP address: find the unit's address on its front panel or its own web page and compare it with the plugin's IP Address property. A unit on DHCP may have moved; give it a fixed address or a DHCP reservation.

The address is right, but it still does not connect.
Check the network path. The Core and the unit must reach each other: the same network or VLAN, or a route between them. From a computer on the Core's network, the unit's web page should open at its address.

Could a firewall be blocking it?
Yes. A firewall or switch ACL between the Core and the unit must allow TCP port 8000 to the unit. Also leave the Port property at 8000 unless the unit's own web page was set to another port.

It connects, but a change does not happen.
The Status control shows Compromised and names the command the unit refused. The unit may be in standby: turn it on first.

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