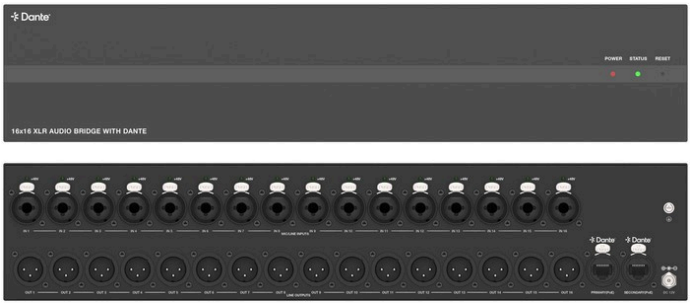
16x16 XLR Audio Bridge with Dante® and PoE+, 19" Rack Mount

One Chassis Replaces Separate Input and Output Units - 16 XLR/TRS Combo In, 16 XLR Out, +48V Phantom Power



Puts sixteen microphone or line sources onto a Dante® network and returns sixteen balanced feeds to analog gear, all from one 19" rack-mount chassis. The AUD-DTE-16X16XLR has 16 XLR/TRS combo inputs, each with switchable +48V phantom power, and 16 balanced XLR outputs. All 32 channels are bridged to and from Dante® and AES67 through primary and secondary RJ45 ports.

Each input has six sensitivity settings, from -35dBV for microphones up to +24dBu for hot line-level gear, plus a fine gain trim of +/-12dB. An 8-band parametric EQ (+/-15dB) is available on every input and output, each output has delay, and five presets store complete room setups. Routing and latency are set in Dante® Controller, and levels, EQ and presets are set from the built-in Web GUI or by ASCII commands over TCP/IP or Telnet. If the primary network fails, the secondary port takes over automatically. The strongest reason to choose it is consolidation: one chassis does the work of separate 16-channel input and output units, or of sixteen 2-channel endpoints, at the head end.

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

- ✓ 16 balanced analog inputs on XLR/TRS combo connectors
- ✓ 16 balanced analog outputs on XLR connectors
- ✓ Dante® 16x16 and AES67 audio input and output
- ✓ Primary and secondary Dante® RJ45 ports; if the primary network fails, the secondary port takes over automatically
- ✓ Accepts and delivers balanced or unbalanced analog audio
- ✓ +48V phantom power on each input, switched per input from the Web GUI or the API, with a rear-panel indicator for each input
- ✓ Global 0dBFS line-up selection: -35dBV, -18dBV, 0dBV, +4dBu, +14dBu or +24dBu
- ✓ Per-input gain trim from -12dB to +12dB in 0.1dB steps
- ✓ Per-output level selection: +20dBu, +14dBu, +4dBu, 0dBV or -18dBV
- ✓ Built-in DSP for sensitivity gain, 8-band PEQ and delay
- ✓ 8-band PEQ on every input and output (+/-15dB), with Parametric, Lowpass, Highpass, Low Shelf and High Shelf filters, stereo-pair linking, and copy, import and export of settings
- ✓ Delay on each output
- ✓ Dante® audio at 44.1kHz, 48kHz, 88.2kHz and 96kHz sampling rates, at 16 or 24 bits
- ✓ Dante® device latency of 2, 3, 4, 5 or 10ms
- ✓ Five preset scenes, each storing every setting except the network settings
- ✓ Channel names of up to 32 characters for every input and output
- ✓ Configuration from the built-in Web GUI, with separate Admin and User accounts, or from Dante® Controller
- ✓ ASCII API control over TCP/IP (port 8000) and Telnet (port 23); both ports can be changed
- ✓ Configuration export and import, and firmware update from the Web GUI
- ✓ Standard 19" rack-mount metal enclosure with mounting ears included
- ✓ Works with RelayAV, KanexPro's control app: each output's gain, mute, delay and level, each input's gain, mute, sensitivity, delay and 48 V phantom power, DCA groups, input and output EQ, expander, limiter, presets, auto standby and power, from the RelayAV app

2. Package Contents

- ✓ 1x AUD-DTE-16X16XLR 16x16 XLR Audio Bridge with Dante® and PoE+
- ✓ 1x 12V/2.5A locking power supply with multinational conversion plugs
- ✓ 2x Mounting ears
- ✓ 8x Machine screws

3. Specifications

AUDIO AND NETWORK	
Audio Channels	16 analog inputs, 16 analog outputs
Dante® Audio Format	Dante®/AES67 digital audio in/out; 44.1kHz, 48kHz, 88.2kHz or 96kHz; 16-bit or 24-bit
Audio Latency	Dante® device latency of 2, 3, 4, 5 or 10ms, set in Dante® Controller

continued

Network Bandwidth	Dante® network, 1000Mbps
Transmission Distance	328ft (100m) over CAT6/6A/7
AUDIO PERFORMANCE	
THD+N	< 0.01% at +4dBu, 1kHz
S/N Ratio	at least 105dB at +4dBu, 1kHz, A-weighted
Dynamic Range	at least 105dB at +4dBu, 1kHz, A-weighted
Frequency Response	20Hz to 20kHz (+/-0.5dB)
MIC/LINE INPUTS	
Connectors	16 × XLR/TRS combo, female
Signal	Analog audio, balanced or unbalanced
Input Level, Line	Max +24dBu (12.28Vrms) balanced; max +18dBu (6.14Vrms) unbalanced
Input Level, Mic	Min -35dBV
Input Sensitivity	+24dBu, +14dBu, +4dBu, 0dBV, -18dBV or -35dBV, per input
Input Gain Trim	-12dB to +12dB in 0.1dB steps
Input Impedance	20k Ohm balanced; 10k Ohm unbalanced
Phantom Power	+48V, switchable per input
LINE OUTPUTS	
Connectors	16 × XLR, male
Signal	Analog audio, balanced or unbalanced
Output Level	Max +20dBu (7.75Vrms) balanced; max +14dBu (3.875Vrms) unbalanced; min -18dBV
Output Level Selection	+20dBu, +14dBu, +4dBu, 0dBV or -18dBV, per output
Output Impedance	600 Ohm balanced; 300 Ohm unbalanced
XLR Pinout	Pin 1 Ground/Shield; Pin 2 Positive/Hot; Pin 3 Negative/Cold (inputs and outputs)
DSP	
Parametric EQ	8 bands on every input and output
Filter Types	Parametric, Lowpass, Highpass, Low Shelf, High Shelf
EQ Gain	-15dB to +15dB in 0.1dB steps
EQ Frequency	20Hz to 20kHz
EQ Q	0.02 to 16 in 0.01 steps
Output Delay	Adjustable per output
Presets	5 scenes
CONTROL	
Configuration	Built-in Web GUI (Admin and User accounts); Dante® Controller; RelayAV
API Control	ASCII commands over TCP/IP (default port 8000) and Telnet (default port 23)
IP Addressing	DHCP (default) or static, set separately for primary and secondary networks

continued

CONNECTORS	
Mic/Line Inputs	16 × XLR/TRS combo, female
Line Outputs	16 × XLR, male
Dante® Primary	1 × locking RJ45, PoE+ PD (IEEE 802.3at, Class 4); Dante®/AES67 audio, Web GUI, TCP/IP and RelayAV control
Dante® Secondary	1 × locking RJ45, PoE+ PD (IEEE 802.3at, Class 4); Dante®/AES67 audio, Web GUI, TCP/IP and RelayAV control
Power	1 × 2-pin locking DC jack, 12V DC, max 2.5A
Ground	1 × chassis ground terminal
INDICATORS AND BUTTONS	
Front Panel	POWER LED, STATUS LED, RESET button
Rear Panel	+48V phantom power indicators
POWER	
Power Consumption	19.44W max
PHYSICAL	
Housing	Metal enclosure
Color	Black
Mounting	Standard 19" rack mount
Dimensions (W × D × H)	17.32 × 7.87 × 3.46 in (440 × 200 × 88mm)
Weight	6.88 lbs (3.12kg)
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
ESD Protection	IEC 61000-4-2: +/-8kV air-gap discharge, +/-4kV contact discharge

4. Surge Protection

This product contains sensitive electrical components that can be damaged by electrical spikes, surges, electric shock and lightning strikes. We strongly recommend a surge protection system to protect your equipment and extend its life.

Read these instructions carefully before you connect, operate or adjust this product, and keep this manual for future reference.

5. Introduction

The AUD-DTE-16X16XLR is a 16x16 XLR audio bridge built on the Dante® Embedded Platform (DEP). It converts up to 16 analog inputs and 16 analog outputs to and from the Dante® audio standard. Each input is an XLR/TRS combination connector that accepts balanced or unbalanced audio. Each input provides 48V phantom power and six sensitivity levels, and each output provides five output levels.

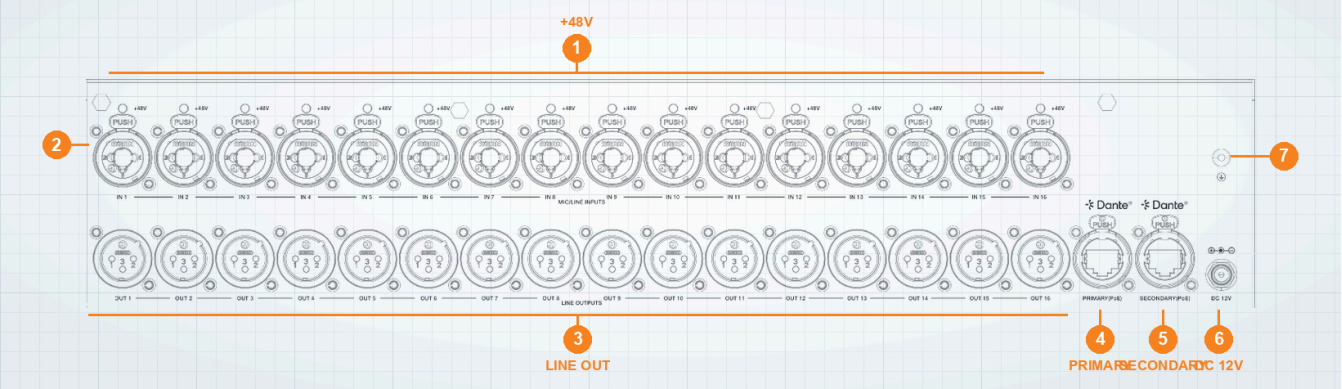
Built-in signal processing gives you gain, equalizer and delay control. You configure the unit from its built-in Web GUI or from the standard Dante® Controller software.

The unit mounts in one unit of a standard 19" rack. It works with many types of professional audio equipment and greatly simplifies system wiring.

6. Panel Descriptions



Front Panel



Rear Panel

FRONT PANEL

No.	Name	Function Description
1	POWER LED	Shows the power state. Solid green means the unit is powered on, from PoE+ or the DC supply. Solid red means it is in standby. Off means it is powered off.
2	STATUS LED	Shows the system status. Solid green means the system is working normally. Flashing at 2Hz means there is a fault.
3	RESET button	Press briefly to reset the system. Press and hold for 5 seconds to reset it to KanexPro default settings. While the defaults are restored, all front-panel LEDs flash at 2Hz for 5 seconds.

REAR PANEL

No.	Name	Function Description
1	**48V phantom power indicator lights**	Green indicators that show phantom power status. When a MIC/LINE input (1 to 16) is used as a microphone input and its 48V phantom power is on, the matching indicator lights.
2	**MIC/LINE INPUTS ports**	Analog audio inputs, balanced or unbalanced, 16 channels. Used as line inputs, they take a maximum input level of 24dBu. Used as microphone inputs, they take a minimum input level of -35dBV. When you turn phantom power on for an input from the Web GUI or by API command, that port powers the connected microphone.
3	**GND**	Connect this terminal to ground to ground the unit's housing.
4	**LINE OUTPUTS ports**	Analog line audio outputs, balanced or unbalanced, 16 channels, with a maximum output level of 20dBu.
6	**DC 12V**	Connect the included 12V/2.5A DC power supply here.

7. Dante® Web GUI Operation Guide

You can control the audio bridge from its built-in Dante® Web GUI. To open it:

1. Connect the Dante® PRIMARY(PoE) port of the audio bridge to your Ethernet switch. 2. Connect your PC to the same Ethernet switch and set the PC's network connection to "Obtain an IP address automatically". 3. Open the Dante® Controller software on the PC and find the audio bridge on the Routing page. 4. Click the Device Info tab to see the bridge's IP address. The bridge uses DHCP by default, so Dante® Controller is where you find its address. 5. Type that IP address into the browser on your PC to open the Dante® Web GUI login screen. 6. Select the Admin account, enter its password and click LOGIN. The Information page opens.

The Web GUI has two accounts. **Admin** reaches every page described below. **User** reaches only the User page.

INFORMATION PAGE

This page shows basic information about the audio bridge: the model name, MCU version, Web version, DEP SDK version, IP hostname, and the network settings of the primary and secondary networks.

PRESET PAGE

You can store up to five preset scenes here.

- **Preset Name:** Give the scene a name of up to 32 characters.
- **Preset Save:** Click Save to store the current scene.
- **Preset Clear:** Click Clear to erase a stored scene.
- **Preset Recall:** Click Recall to load a stored scene.

The controls in the upper right corner appear on every page:

- **Master Out volume:** Click the volume icons to raise or lower the Master Out volume. Click the mute icon to mute or unmute Master Out; the icon turns red while Master Out is muted.
- **Current user:** Shows whether you are signed in as User or Admin.
- **Power icon:** Click it to power the audio bridge on or put it into standby.
- **Logout icon:** Click it to log out and go back to the login screen.

INPUT PAGE

- **XLR IN 1 to XLR IN 16:** Set the volume of each input, or mute and unmute it. You can rename each input channel, up to 32 characters.
- **Sensitivity:** Choose each input's sensitivity from the drop-down list: +24dBu, +14dBu, +4dBu, 0dBV, -18dBV or -35dBV.
- **Phantom Power:** Use the Phantom Power switch to turn 48V phantom power on or off for each input. With the switch on, that input's port on the rear panel powers the connected microphone.

OUTPUT PAGE

- **Master Out:** Set the Master Out volume, or mute and unmute it. Master Out controls the outputs whose switches are turned on. Turn an output's switch on or off to set that output's own volume or mute it.
- **XLR OUT 1 to XLR OUT 16:** Choose each output's gain from the drop-down list: +20dBu, +14dBu, +4dBu, 0dBV or -18dBV. You can also set each output's delay, raise or lower its level, and mute or unmute it. You can rename each output channel, up to 32 characters.

DSP PAGE

The PEQ settings on this page apply to any input or output.

- **Output:** Choose the channel to edit from the drop-down list, any of XLR IN 1 to 16 or XLR OUT 1 to 16.
- **Stereo:** Turn stereo mode on or off.
- **Equalizer:** Choose an EQ setting. Flat sets every band to 0dB, and Custom1 and Custom2 hold your own EQ settings.
- **Bands 1 to 8:** These are the eight PEQ bands. Click a band to select it; a selected band shows a blue grid. Then use the drop-down icons to set its filter type, gain, frequency and Q value.
- **Clear:** Clears the PEQ settings.
- **Copy PEQ Settings:** Copies the current PEQ settings to any other input or output.
- **Export PEQ Settings:** Saves the PEQ settings to a file.
- **Import PEQ Settings:** Loads PEQ settings from a file.

NETWORK PAGE AND SYSTEM PAGE

Account Passwords. You can change the login passwords of the User and Admin accounts. Click Save to apply the change.

Network Configuration. Set the IP mode of the primary and secondary networks to DHCP or Static. With Static selected, enter the IP address, subnet mask and gateway yourself, then click Save. With DHCP selected, the unit takes the address assigned by your router. You can also set the TCP port, Telnet port and domain name of the primary network. Click Save to apply your changes, or Cancel to discard them.

The domain name appears on the Information page as the IP hostname, in the form IP-Module-XXXXX.local. The number differs from unit to unit. You can type this name into your browser instead of the IP address to open the Web GUI, and you can change it (up to 32 characters).

System Utilities.

- **Power On:** Use the switch to power the audio bridge on or off.
- **Standby Mode:** Choose Standby or Sleep from the drop-down list.
- **Auto Standby Time:** Drag the slider, or type a value, to set how long the unit waits before it goes into standby on its own.
- **Reboot:** Restarts the audio bridge.
- **Restore Factory Settings:** Returns the audio bridge to its KanexPro default settings.
- **Export Settings:** Saves the configuration to a file.
- **Import Settings:** Loads a configuration file.

Firmware Update. Click Choose File, select the update file and click Update. The update is complete when the progress bar reaches 100%.

USER PAGE

To open this page, select the User account on the login screen, enter its password and click LOGIN. On the User page you can:

- **Preset:** Recall the stored preset scenes.
- **Master Out:** Set the Master Out volume, or mute and unmute it, for the outputs whose switches are turned on. Turn an output's switch on or off to set that output's own volume or mute it.

8. Control with RelayAV

RelayAV is KanexPro's control app. Once the AUD-DTE-16X16XLR 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.

- **Outputs:** Gain (dB); Mute; Delay (ms); Output level
- **Inputs:** Gain (dB); Mute; Sensitivity; Delay (ms); 48 V phantom
- **DCA groups:** Volume; Mute; Inputs in a DCA group; Outputs in a DCA group
- **EQ:** EQ on; Set an EQ band; Turn an EQ band on or off; Clear the EQ; Copy an EQ
- **Input EQ:** EQ on; Set an EQ band; Turn an EQ band on or off; Clear the EQ; Copy an EQ
- **Expander:** Expander on; Set an expander; Clear the expander
- **Limiter:** Limiter on; Set a limiter; Clear the limiter
- **Presets:** Presets; Save a preset; Clear a preset
- **System:** Standby after no sound (min, 0 = never); Standby kind
- **Power:** Power
  RelayAV asks before it switches 48 V phantom power on.

Set elsewhere, or not in RelayAV:

- Dante routing (which Dante channels it sends and receives) is set in Dante Controller.
- Which Dante network port is primary or secondary, and redundancy, are set in Dante Controller.
- It has no master volume: each output has its own gain, and DCA groups move several at once.
- On its own web page only: channel and preset names, exporting and importing its settings, and firmware updates.
- Never from RelayAV: network settings, logins, restart and reset to KanexPro default settings.

9. API Control Commands

You can also control the audio bridge with ASCII API commands. Connect the Dante® PRIMARY(PoE) or SECONDARY(PoE) port and your PC to the same switch, on the same LAN. Then open a command tool on the PC and send ASCII commands to the bridge. The TCP/IP control port is 8000 and the Telnet port is 23 by default; you can change either one (see Network Setting below).

In the tables, x stands for the first parameter and y for the second. In input commands, x selects the input: 0 for all inputs, or 1 to 16 for XLR IN1 to XLR IN16. In output commands, x selects the output: 0 for all outputs, or 1 to 16 for XLR OUT1 to XLR OUT16. Stereo commands work on pairs: 0 selects all pairs, and 1 to 8 select IN or OUT 1/2, 3/4, 5/6, 7/8, 9/10, 11/12, 13/14 and 15/16.

SYSTEM SETTING

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
`help`	List all commands	`help`	List of all API commands	
`?`	List all commands	`?`	List of all API commands	
`get type`	Get the device model	`get type`	`AUD-DTE-16X16XLR`	
`status`	Get the device's current status	`status`	See "Status feedback" below	
`get fw version`	Get the firmware version	`get fw version`	`Web: V1.00.02 MCU: V2.0.0 DEP: V1.3.3.5_20250819`	
`power on`	Power on the device	`power on`	`Power on System Initializing... Initialization Finished!` followed by the Web, MCU and DEP firmware versions	
`power off`	Power off the device	`power off`	`Power: off`	
`get power`	Get the current power state	`get power`	`Power: off`	

continued

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
set standby x	Set the standby mode. x=1 Standby, x=2 Sleep	set standby 1	Standby mode: standby	1
get standby	Get the standby mode	get standby	Standby mode: standby	
reboot	Reboot the device	reboot	Reboot… System Initializing... Initialization Finished! followed by the Web, MCU and DEP firmware versions	
reset	Reset system settings to default. Type "Yes" to confirm or "No" to cancel	reset	Sure to Reset System Settings To Default? Type "Yes" after next prompt to confirm…	
reset all	Reset system and network settings to default. Type "Yes" to confirm or "No" to cancel	reset all	Sure to Reset System and Network Settings To Default? Type "Yes" after next prompt to confirm…	
set auto stb x	Set the auto standby time. x=0 turns auto standby off; x=1–100 sets the time in minutes	set auto stb 10	Auto standby time: 10mins	10
get auto stb	Get the auto standby time	get auto stb	Auto standby time: 10mins	

INPUT SETTING

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
set input x gain y	Set input x gain to y. y=-12 to 12dB, in 0.1dB steps	set input 1 gain 10	XLR IN1 gain: 10dB	0
get input x gain	Get input x gain	get input 1 gain	XLR IN1 gain: 10dB	
set input x gain+ / set input x gain+y	Increase input x gain by y. y=0.1–24; leave y out for one 1dB step	set input 1 gain+ / set input 1 gain+5	Increase XLR IN1 gain: 1dB / Increase XLR IN1 gain: 5dB	
set input x gain- / set input x gain-y	Decrease input x gain by y. y=0.1–24; leave y out for one 1dB step	set input 1 gain- / set input 1 gain-5	Decrease XLR IN1 gain: -1dB / Decrease XLR IN1 gain: -5dB	
set input x sensitivity y	Set input x sensitivity. y=1 +24dBu, 2 +14dBu, 3 +4dBu, 4 0dBV, 5 -18dBV, 6 -35dBV	set input 3 sensitivity 1	XLR IN3 sensitivity: +24dBu	

continued

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
get input x sensitivity	Get input x sensitivity	get input 3 sensitivity	XLR IN3 sensitivity: +24dBu	
set input x phantom power on/off	Turn 48V phantom power on or off for input x	set input 3 phantom power on	XLR IN3 phantom power: on	Off
get input x phantom power	Get input x 48V phantom power status	get input 3 phantom power	XLR IN3 phantom power: on	
set input x mute on/off	Mute or unmute input x	set input 1 mute on	XLR IN1 mute: on	Off
get input x mute	Get input x mute status	get input 1 mute	XLR IN1 mute: on	

OUTPUT SETTING

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
set master member <a/b/c/d/e/f/g/h/i/j/k/l/m/n/o/p>	Choose which outputs Master Out controls. Each letter is one output, a = XLR OUT1 through p = XLR OUT16; 1 includes the output and 0 excludes it	set master member <1111111111111111>	Set master member: 1111111111111111	1111111111111111
get master member	Get the master output members	get master member	1111111111111111	
set master vol x / set vol x	Set the master output volume. x=0–100	set master vol 50 / set vol 50	Master volume: 50	50
get master vol / get vol	Get the master output volume	get master vol / get vol	Master volume: 50	
set master vol+ / set vol+ / set master vol+y / set vol+y	Increase the master output volume by y. y=1–100; leave y out for one step	set master vol+ / set vol+ / set master vol+5 / set vol+5	Increase master volume: 51 (one step) / Increase master volume: 55 (by 5)	
set master vol- / set vol- / set master vol-y / set vol-y	Decrease the master output volume by y. y=1–100; leave y out for one step	set master vol- / set vol- / set master vol-5 / set vol-5	Decrease master volume: 49 (one step) / Decrease master volume: 45 (by 5)	
set master mute on/off / set mute on/off	Mute or unmute the master output	set master mute on / set mute on	Master mute: on	Off
get master mute / get mute	Get the master output mute status	get master mute / get mute	Master mute: on	
set output x gain y	Set output x gain. y=1 +20dBu, 2 +14dBu, 3 +4dBu, 4 0dBV, 5 -18dBV	set output 3 gain 1	XLR OUT3 sensitivity: +20dBu	

continued

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
get output x gain	Get output x gain	get output 3 gain	XLR OUT3 sensitivity: +20dBu	
set output x vol y	Set output x volume. y=0–100	set output 5 vol 50	XLR OUT5 volume: 50	50
get output x vol	Get output x volume	get output 5 vol	XLR OUT5 volume: 50	
set output x vol+ / set output x vol+y	Increase output x volume by y. y=1–100; leave y out for one step	set output 5 vol+ / set output 5 vol+5	Increase XLR OUT5 volume: 51 / Increase XLR OUT5 volume: 55	
set output x vol- / set output x vol-y	Decrease output x volume by y. y=1–100; leave y out for one step	set output 5 vol- / set output 5 vol-5	Decrease XLR OUT5 volume: 49 / Decrease XLR OUT5 volume: 45	
set output x mute on/off	Mute or unmute output x	set output 5 mute on	XLR OUT5 mute: on	Off
get output x mute	Get output x mute status	get output 5 mute	XLR OUT5 mute: on	
set output x delay y	Set output x delay. y=0–50ms	set output 5 delay 50	XLR OUT5 delay: 50ms	0
get output x delay	Get output x delay	get output 5 delay	XLR OUT5 delay: 50ms	

DSP SETTING

The filter-setting commands take these values. t is the filter type: 1 Parametric, 2 Lowpass, 3 Highpass, 4 Low Shelf, 5 High Shelf. z is the frequency, from 20 to 20000Hz. aa is the gain, from -15 to 15dB in 0.1dB steps. bb is the Q value, from 0.02 to 16 in 0.01 steps. y is the band number: 1 to 8, or 0 for all bands.

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
set input x eq preset y	Set input x PEQ preset. y=1 Flat, 2 Custom1, 3 Custom2	set input 1 eq preset 2	XLR IN1 PEQ: Custom1	
get input x eq preset	Get input x PEQ preset	get input 1 eq preset	XLR IN1 PEQ: Custom1	
set input x eq y on/off	Turn EQ band y of input x on or off	set input 1 eq 0 on	XLR IN1 EQ all: on	Off
get input x eq	Get input x EQ on/off status	get input 1 eq	XLR IN1 EQ: on	
set input x eq stereo on/off	Turn stereo mode on or off for an input pair, so both inputs share the same EQ settings	set input 1 eq stereo on	XLR IN1/2 EQ stereo mode: on	Off
get input x eq stereo	Get the input pair's EQ stereo mode	get input 1 eq stereo	XLR IN1/2 EQ stereo mode: on	

continued

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
set input x eq y typ t frq z val aa q bb	Set band y of input x to filter type t, frequency z, gain aa and Q bb (frequency in 1Hz steps)	`set input 1 eq 1 typ 1 frq 200 val -18 q 0.02`	`XLR IN1 EQ: Type: 2, Frequency: 1000Hz, Value: 12dB, Q: 1.4`	
get input x eq setting	Get the settings of every EQ band of input x	`get input 1 eq setting`	`Dante XLR IN1 EQ,` then one line per band, 1 to 8, in the form `1: Type: 2, Frequency: 1000Hz, Value: 12dB, Q: 1.4 on`	
set input x eq clear	Clear input x EQ settings	`set input 1 eq clear`	`Clear XLR IN1 EQ`	
set output x eq preset y	Set output x PEQ preset. y=1 Flat, 2 Custom1, 3 Custom2	`set output 1 eq preset 2`	`XLR OUT1 PEQ: Custom1`	
get output x eq preset	Get output x PEQ preset	`get output 1 eq preset`	`XLR OUT1 PEQ: Custom1`	
set output x eq y on/off	Turn EQ band y of output x on or off	`set output 1 eq 0 on`	`XLR OUT1 EQ 1: on` through `XLR OUT1 EQ 8: on`	Off
get output x eq	Get output x EQ on/off status	`get output 1 eq`	`XLR IN1 EQ: on`	
set output x eq stereo on/off	Turn stereo mode on or off for an output pair, so both outputs share the same EQ settings	`set output 1 eq stereo on`	`XLR OUT1/2 EQ stereo mode: on`	Off
get output x eq stereo	Get the output pair's EQ stereo mode	`get output 1 eq stereo`	`XLR OUT1/2 EQ stereo mode: on`	
set output x eq y typ t frq z val aa q bb	Set band y of output x to filter type t, frequency z, gain aa and Q bb (frequency in 0.1Hz steps)	`set output 1 eq 1 typ 1 frq 200 val -18 q 0.02`	`XLR OUT1 EQ Type: 2, Frequency: 1000Hz, Value: 12dB, Q: 1.4`	
get output x eq setting	Get the settings of every EQ band of output x	`get output 1 eq`	`Dante XLR OUT1 EQ,` then one line per band, 1 to 8, in the form `1: Type: 2, Frequency: 1000Hz, Value: 12dB, Q: 1.4 on`	
set output x eq clear	Clear output x EQ settings	`set output 1 eq clear`	`Clear XLR OUT1 EQ`	

continued

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
set input/output x eq copy to input/output y	Copy the EQ settings of input or output x (1–16) to input or output y (1–16, or 0 for all)	`set input 1 eq copy to output 2`	`Set XLR IN1 EQ copy to XLR OUT2`	

PRESET SETTING

Presets store every setting except the network settings. x is the preset number, from 1 to 5.

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
set preset save x	Save the current settings to preset x	`set preset save 1`	`Save to preset 1`	
set preset recall x	Recall preset x	`set preset recall 1`	`Recall preset 1`	
set preset clear x	Clear preset x	`set preset clear 1`	`Clear preset 1`	

NETWORK SETTING

A new network setting takes effect only after you run `set net reboot` or power-cycle the unit. A static address, subnet mask or gateway can be set only while that network is in Static mode. If DHCP is still on, the unit answers with a message such as `DHCP on, Device can't config static address, set DHCP off first.`

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
get ipconfig	Get the current IP configuration	`get ipconfig`	The TCP/IP and Telnet ports, then for the primary and secondary networks the IP mode, IP address, subnet mask, gateway, MAC address and stored static settings	
set pri ip mode x	Set the primary network IP mode. x=0 Static, 1 DHCP	`set pri ip mode 0`	`Primary IP mode: Static (Please use "s net reboot!" command or repower device to apply new config!)`	1
get pri ip mode	Get the primary network IP mode	`get pri ip mode`	`Primary IP mode: DHCP`	
set pri ip addr xxx.xxx.xxx.xxx	Set the primary network IP address	`set pri ip addr 192.168.1.100`	`Primary IP address:` followed by the new address and the reminder to reboot the network module	
get pri ip addr	Get the primary network IP address	`get pri ip addr`	`Primary IP:` followed by the address	
set pri subnet xxx.xxx.xxx.xxx	Set the primary network subnet mask	`set pri subnet 255.255.255.0`	`Primary Subnet Mask: 255.255.255.0` and the reminder to reboot the network module	

continued

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
get pri subnet	Get the primary network subnet mask	`get pri subnet`	`Primary Subnet Mask: 255.255.255.0`	
set pri gateway xxx.xxx.xxx.xxx	Set the primary network gateway	`set pri gateway 192.168.1.1`	`Primary Gateway: 192.168.1.1` and the reminder to reboot the network module	
get pri gateway	Get the primary network gateway	`get pri gateway`	`Primary Gateway: 192.168.1.1`	
get pri mac addr	Get the primary network MAC address	`get pri mac addr`	`Primary MAC: xx:xx:xx:xx:xx:xx`	
set sec ip mode x	Set the secondary network IP mode. x=0 Static, 1 DHCP	`set sec ip mode 0`	`Secondary IP mode: Static (Please use "s net reboot!" command or repower device to apply new config!)`	1
get sec ip mode	Get the secondary network IP mode	`get sec ip mode`	`Secondary IP mode: DHCP`	
set sec ip addr xxx.xxx.xxx.xxx	Set the secondary network IP address	`set sec ip addr 192.168.1.100`	`Secondary IP address:` followed by the new address and the reminder to reboot the network module	
get sec ip addr	Get the secondary network IP address	`get sec ip addr`	`Secondary IP:` followed by the address	
set sec subnet xxx.xxx.xxx.xxx	Set the secondary network subnet mask	`set sec subnet 255.255.255.0`	`Secondary Subnet Mask: 255.255.255.0` and the reminder to reboot the network module	
get sec subnet	Get the secondary network subnet mask	`get sec subnet`	`Secondary Subnet Mask: 255.255.255.0`	
set sec gateway xxx.xxx.xxx.xxx	Set the secondary network gateway	`set sec gateway 192.168.1.1`	`Secondary Gateway: 192.168.1.1` and the reminder to reboot the network module	
get sec gateway	Get the secondary network gateway	`get sec gateway`	`Secondary Gateway: 192.168.1.1`	
get sec mac addr	Get the secondary network MAC address	`get sec mac addr`	`Secondary MAC: xx:xx:xx:xx:xx:xx`	
set tcp/ip port x	Set the TCP/IP port. x=1–65535	`set tcp/ip port 8000`	`TCP/IP port: 8000`	8000

continued

COMMAND	FUNCTION	EXAMPLE	FEEDBACK	DEFAULT
get tcp/ip port	Get the TCP/IP 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 1234	Hostname: 1234 (Please use "set net reboot" command or repower device to apply new config!)	
get net hostname	Get the network hostname	get net hostname	Hostname: 1234	
set net reboot	Restart the network modules	set net reboot	Search for IP, Please wait ...!, then the new primary and secondary network configuration	

STATUS FEEDBACK

The `status` command returns a full report in this form:

`` == Status Info AUD-DTE-16X16XLR Audio Bridge Web V1.00.02 MCU V2.0.0 DEP V1.3.3.5_20250714 Power Standby Mode Auto_Standby On Sleep 10min Input Name Phantom_Power Sensitivity Gain(dB) Mute 01 XLR IN1 Off 0dBV 0 Off 02 XLR IN2 Off 0dBV 0 Off 03 XLR IN3 Off 0dBV 0 Off 04 XLR IN4 Off 0dBV 0 Off 05 XLR IN5 Off 0dBV 0 Off 06 XLR IN6 Off 0dBV 0 Off 07 XLR IN7 Off 0dBV 0 Off 08 XLR IN8 Off 0dBV 0 Off 09 XLR IN9 Off 0dBV 0 Off 10 XLR IN10 Off 0dBV 0 Off 11 XLR IN11 Off 0dBV 0 Off 12 XLR IN12 Off 0dBV 0 Off 13 XLR IN13 Off 0dBV 0 Off 14 XLR IN14 Off 0dBV 0 Off 15 XLR IN15 Off 0dBV 0 Off 16 XLR IN16 Off 0dBV 0 Off Output Name Gain Volume Mute Delay (ms) 01 XLR OUT1 0dBV 50 Off 0 02 XLR OUT2 0dBV 50 Off 0 03 XLR OUT3 0dBV 50 Off 0 04 XLR OUT4 0dBV 50 Off 0 05 XLR OUT5 0dBV 50 Off 0 06 XLR OUT6 0dBV 50 Off 0 07 XLR OUT7 0dBV 50 Off 0 08 XLR OUT8 0dBV 50 Off 0 09 XLR OUT9 0dBV 50 Off 0 10 XLR OUT10 0dBV 50 Off 0 11 XLR OUT11 0dBV 50 Off 0 12 XLR OUT12 0dBV 50 Off 0 13 XLR OUT13 0dBV 50 Off 0 14 XLR OUT14 0dBV 50 Off 0 15 XLR OUT15 0dBV 50 Off 0 16 XLR OUT16 0dBV 50 Off 0 TCP/IP Telnet MAC (PRIMARY) MAC (SECONDARY) 8000 0023 xx:xx:xx:xx:xx:xx xx:xx:xx:xx:xx:xx PRIMARY DHCP IP Gateway SubnetMask On xxx.xxx.xxx.xxx xxx.xxx.xxx.xxx xxx.xxx.xxx.xxx (Static: xxx.xxx.xxx.xxx xxx.xxx.xxx.xxx xxx.xxx.xxx.xxx) SECONDARY DHCP IP Gateway SubnetMask On xxx.xxx.xxx.xxx xxx.xxx.xxx.xxx xxx.xxx.xxx.xxx (Static: xxx.xxx.xxx.xxx xxx.xxx.xxx.xxx xxx.xxx.xxx.xxx) == ``

10. Connection Diagram

The connection diagram shows the AUD-DTE-16X16XLR with a mixing console, microphones, a PoE network switch, a Dante® amplifier, a laptop, active speakers and an audio amplifier.

When you connect XLR audio devices to the inputs and outputs, check the XLR pinout. The female (input) and male (output) connectors use the same pin assignment:

PIN	SIGNAL
1	Ground/Shield
2	Positive/Hot

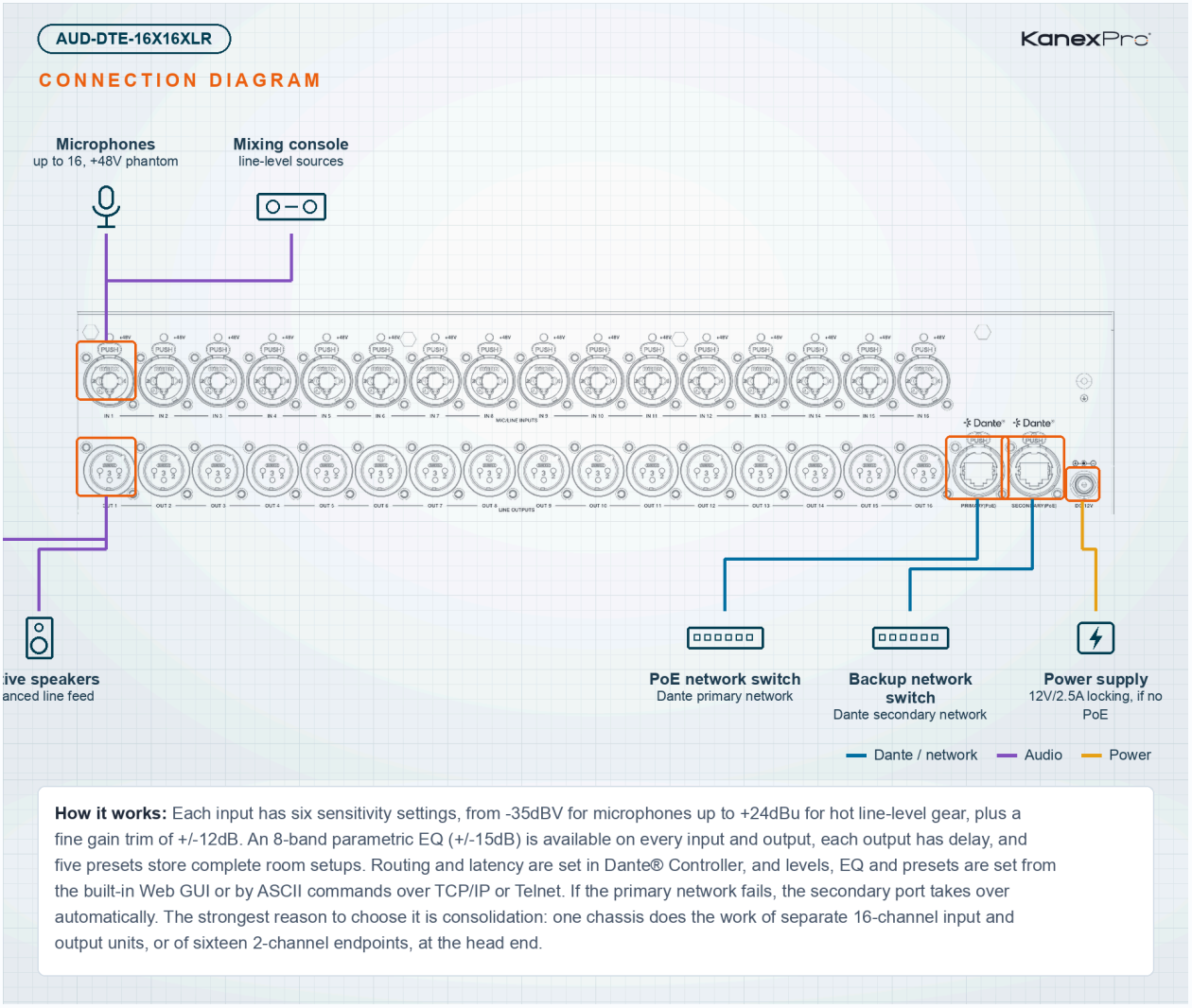
continued

PIN	SIGNAL
3	Negative/Cold

11. Trademarks

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

12. Connection Diagram



How it works: Each input has six sensitivity settings, from -35dBV for microphones up to +24dBu for hot line-level gear, plus a fine gain trim of +/-12dB. An 8-band parametric EQ (+/-15dB) is available on every input and output, each output has delay, and five presets store complete room setups. Routing and latency are set in Dante® Controller, and levels, EQ and presets are set from the built-in Web GUI or by ASCII commands over TCP/IP or Telnet. If the primary network fails, the secondary port takes over automatically. The strongest reason to choose it is consolidation: one chassis does the work of separate 16-channel input and output units, or of sixteen 2-channel endpoints, at the head end.

13. Troubleshooting

Q: What do the front-panel LEDs mean?

A: A solid green POWER LED means the unit is on, solid red means it is in standby and off means it has no power. A solid green STATUS LED means the system is working normally, and a STATUS LED flashing at 2Hz means a fault. A short press of RESET restarts the system, and holding it for 5 seconds restores KanexPro default settings, with all LEDs flashing for 5 seconds.

Q: The unit keeps dropping into standby. Why?

A: Auto standby is on by default and puts the unit into standby after 10 minutes. Wake the unit with the power icon in the Web GUI or the power on command. Change the delay with set auto stb x (1 to 100 minutes), or turn auto standby off with set auto stb 0.

Q: A condenser microphone gives no signal. What should I check?
A: Phantom power is off by default on every input, so turn it on for that input in the Web GUI or with set input x phantom power on. Confirm that the matching phantom indicator on the rear panel lights. Then check that the input sensitivity suits a microphone (-35dBV is the most sensitive setting) and that the input is not muted.

Q: I can't reach the Web GUI or API. What should I check?
A: Confirm that the Dante port and your PC are on the same switch and LAN, and that the unit appears in Dante Controller with the IP address you are using. If you changed network settings, apply them with set net reboot or a power cycle. A static address can only be set after DHCP is turned off for that network.

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