2x2 XLR and Dante Wall Plate, 2-Gang US, PoE

Two XLR Inputs onto Dante® and Two Dante® Feeds Back Out, at the Wall





Puts two mic or line inputs and two line outputs on the Dante® network at any wall position, over a single PoE cable. The AUD-DTE-WPXLR is a 2x2 analog XLR to Dante® converter that fits a standard US 2-gang Decora wall box. It draws 3.6W maximum as an IEEE 802.3af Class 1 powered device, and takes local 12VDC power where the switch has no PoE. Each XLR-F input accepts a balanced or unbalanced microphone or line source and has its own switched 48V phantom power. Each XLR-M output drives an amplifier, powered speaker or recorder at up to 18dBu. It is the right choice for lecture halls, worship stages, council chambers and divisible rooms, where a finished wall connection, phantom control at the plate and a single network drop matter more than a rack-mounted I/O box.

Built on the Dante® Ultimo 2x2 platform, the plate carries 2-channel PCM audio at 44.1, 48, 88.2 or 96kHz. It supports AES67 RTP transport for mixed Dante® and AES67 systems, and its device latency is configurable to 1, 2 or 5ms in Dante® Controller, where it is routed like any other Dante® endpoint to the room DSP, console or amplifier. Five-step input sensitivity and output gain controls set levels at the wall, and a backlit hard button on each input shows the phantom state without opening any software. Because both directions share one plate and one network port, a wall position that once needed a separate input adapter and output adapter, each with its own cable and PoE port, now needs one device and one Cat6 run.

> **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

- ✓ Two analog inputs and two analog outputs: 2 channels to Dante® and 2 channels from Dante®
- ✓ Balanced or unbalanced XLR analog audio: 3-pin XLR female inputs and 3-pin XLR male outputs
- ✓ Inputs accept line level up to 24dBu or mic level up to 50mVRMS
- ✓ 48V microphone phantom power on each input, switched by a hard button with a backlit LED
- ✓ Five-step input sensitivity and five-step output gain controls to match microphones and line-level XLR devices
- ✓ Dante® audio sampling rates of 44.1, 48, 88.2 and 96kHz at 24-bit
- ✓ Dante® device latency of 1, 2 or 5ms, set in Dante® Controller
- ✓ Supports AES67 RTP audio transport
- ✓ PoE (IEEE 802.3af Class 1) or local 12VDC power through a 2-pin Phoenix connector; 3.6W maximum
- ✓ Standard US 2-gang Decora design
- ✓ Front-panel Power, ID and per-input 48V LEDs; the ID LED lights when the device is identified in Dante® Controller
- ✓ 328ft (100m) to the network switch over CAT6, CAT6A or CAT7

2. Package Contents

- ✓ 1x 2x2 analog XLR to Dante® wall plate converter
- ✓ 1x 2-pin 3.5mm Phoenix connector (male)

3. Specifications

TECHNICAL	
Dante® Platform	Dante® Ultimo 2x2
Control Method	Dante® Controller
Network Bandwidth	100M
Audio Transport	Dante®, AES67 RTP
Dante® Audio Format	Digital audio in/out, PCM 2-channel, 44.1kHz to 96kHz, 16/24-bit
Sampling Rates	44.1, 48, 88.2 and 96kHz
Audio Latency	Configurable Dante® device latency of 1, 2 or 5ms, set in Dante® Controller
Transmission Distance	328ft (100m) over CAT6/6A/7
ESD Protection	IEC 61000-4-2: ±8kV (air-gap discharge), ±4kV (contact discharge)
ANALOG AUDIO	
Line In	Balanced/unbalanced, maximum input level 24dBu
Mic In	Balanced/unbalanced, maximum input level 50mVRMS, 48V phantom power
Line Out	Balanced/unbalanced, maximum output level 18dBu
Input Sensitivity Control	Five-step, per input
Output Gain Control	Five-step, per output
AUDIO PERFORMANCE	
Output Level (Maximum)	18dBu
Frequency Response	20Hz to 20kHz (±0.5dB)
S/N Ratio	> 90dB at 0dBu, 1kHz, A-weighted
Dynamic Range	> 90dB at 0dBu, 1kHz, A-weighted

continued

THD+N	< 0.015% at +4dBu, 1kHz
Output Impedance	300 Ohm
CONNECTIONS: FRONT	
Audio In	2x 3-pin XLR female, mic/line
Audio Out	2x 3-pin XLR male, line
XLR Pinout	Pin 1: Ground/Shield; Pin 2: Positive/Hot; Pin 3: Negative/Cold
Phantom Power Buttons	2x 48V button with backlit LED (green)
Indicators	1x Power LED (green), 1x ID LED (green), 2x 48V phantom power LED (green)
CONNECTIONS: REAR	
Dante®	1x RJ45 with PoE; LINK LED (yellow), DATA LED (green)
DC In	1x 2-pin 3.5mm Phoenix connector, 12VDC/500mA
POWER	
Power Supply	PoE PD (IEEE 802.3af, Class 1), or 12VDC for switches that do not support PoE
DC Input	12VDC/500mA, 2-pin 3.5mm Phoenix connector
Power Consumption	3.6W (maximum)
PHYSICAL	
Mounting	Standard US 2-gang Decora
Dimensions: Wall Plate (W x H x D)	3.74 x 4.13 x 1.62 in (95 x 105 x 41.2 mm)
Dimensions: Faceplate (W x H x D)	4.53 x 4.53 x 0.24 in (115 x 115 x 6 mm)
Weight: Without Faceplate	0.79 lbs (0.36 kg)
Weight: With Faceplate	1.00 lbs (0.45 kg)
Housing	Aluminum panel, iron chassis
Color	White panel, silver chassis
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

4. Surge Protection

This product contains sensitive electrical components. Electrical spikes, surges, electric shock and lightning strikes can damage them. We strongly recommend a surge protection system to protect the unit and extend its life.

5. Network Cable Wiring

Use a straight-through (direct) network cable for this product, wired the same way at both ends. Do not use a crossover cable. Terminate both ends in the order below, which is the T568B standard:

POSITION	WIRE COLOR
1	White and Orange
2	Orange

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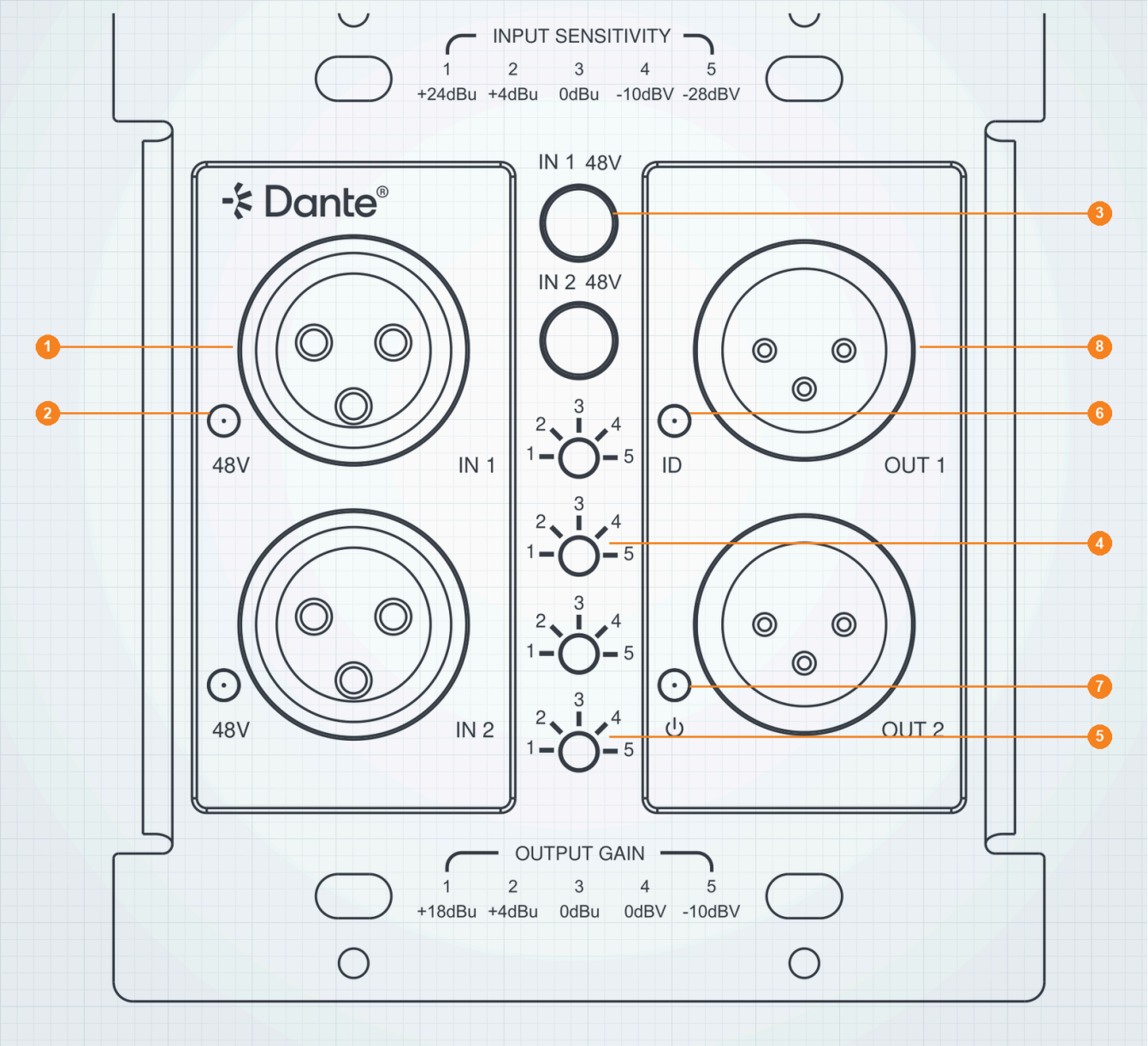
POSITION	WIRE COLOR
3	White and Green
4	Blue
5	White and Blue
6	Green
7	White and Brown
8	Brown

6. Introduction

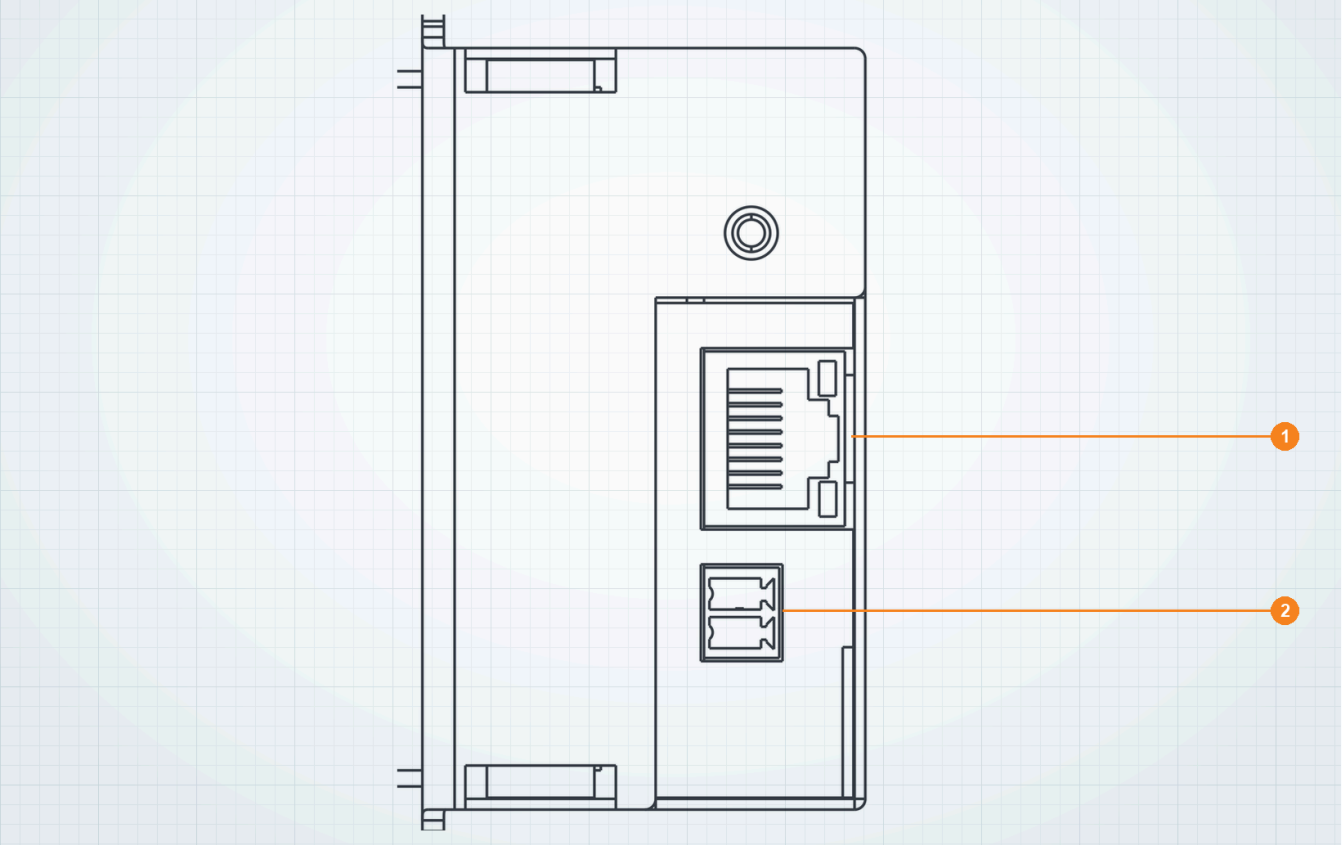
This converter connects traditional analog audio equipment to a Dante® digital audio network. It has two analog XLR inputs and two analog XLR outputs, and it is built on the Dante® Ultimo 2x2 platform. It fits a standard 2-gang US wall box, so microphones, mixers, amplifiers and other analog devices can join a Dante® system from a wall location.

Each analog input has a five-step sensitivity control, and each analog output has a five-step gain control. You can match each channel to a microphone or a line-level device. You can power the converter from the network switch using PoE, or from a local 12VDC supply.

7. Panel descriptions



Front Panel



Side Panel

*This section follows the source's "Operation Controls and Functions". Rows are in the order they came out of the PDF.

FRONT PANEL

No.	Name	Description
	Audio IN 1/2 port	Balanced or unbalanced XLR analog inputs 1 and 2. Connect microphones or line-level analog sources here.
	48V LED 1/2	Lights when 48V phantom power is turned on for microphone input 1 or 2.
	Audio OUT 1/2 port	Balanced or unbalanced XLR analog outputs 1 and 2. Connect amplifiers, powered speakers or other analog playback equipment here.
	IN 1/2 48V button and backlit LED	Press to turn on 48V phantom power for microphone input 1 or 2. The button's backlight comes on while phantom power is on.
	ID LED (green)	Lights when you identify the device in Dante® Controller.
	Power (green)	On when the unit is powered by PoE or a local 12VDC supply. Off when the unit has no power.
	Audio IN 1/2 knob	Five-step sensitivity control for analog input 1 or 2. See the knob settings table below.

continued

No.	Name	Description
	Audio OUT 1/2 knob	Five-step gain control for analog output 1 or 2. See the knob settings table below.

REAR PANEL

No.	Name	Description
	DANTE (PoE) port	100M Dante® digital audio input and output. Connect it to your network switch with an RJ45 cable. The converter can draw its power from this port (PoE, powered device). The yellow LINK LED stays on once the connection is up, and the green DATA LED flashes while data is moving.
	DC IN port	12VDC/500mA power input. Use this when your network switch does not supply PoE.

KNOB SETTINGS

Each knob's arrow points to one of five marked positions. Set the input knob to match the level of the connected source, and the output knob to match the input of the connected equipment. The values below are as printed in the manual.

Knob position	Audio IN sensitivity	Audio OUT gain
1	**+24dBu**	+18dBu
2	**+4dBu**	+4dBu
3	**0dBu**	0dBu
4	**-10dBv**	0dBv
5	**-28dBv**	-10dBv

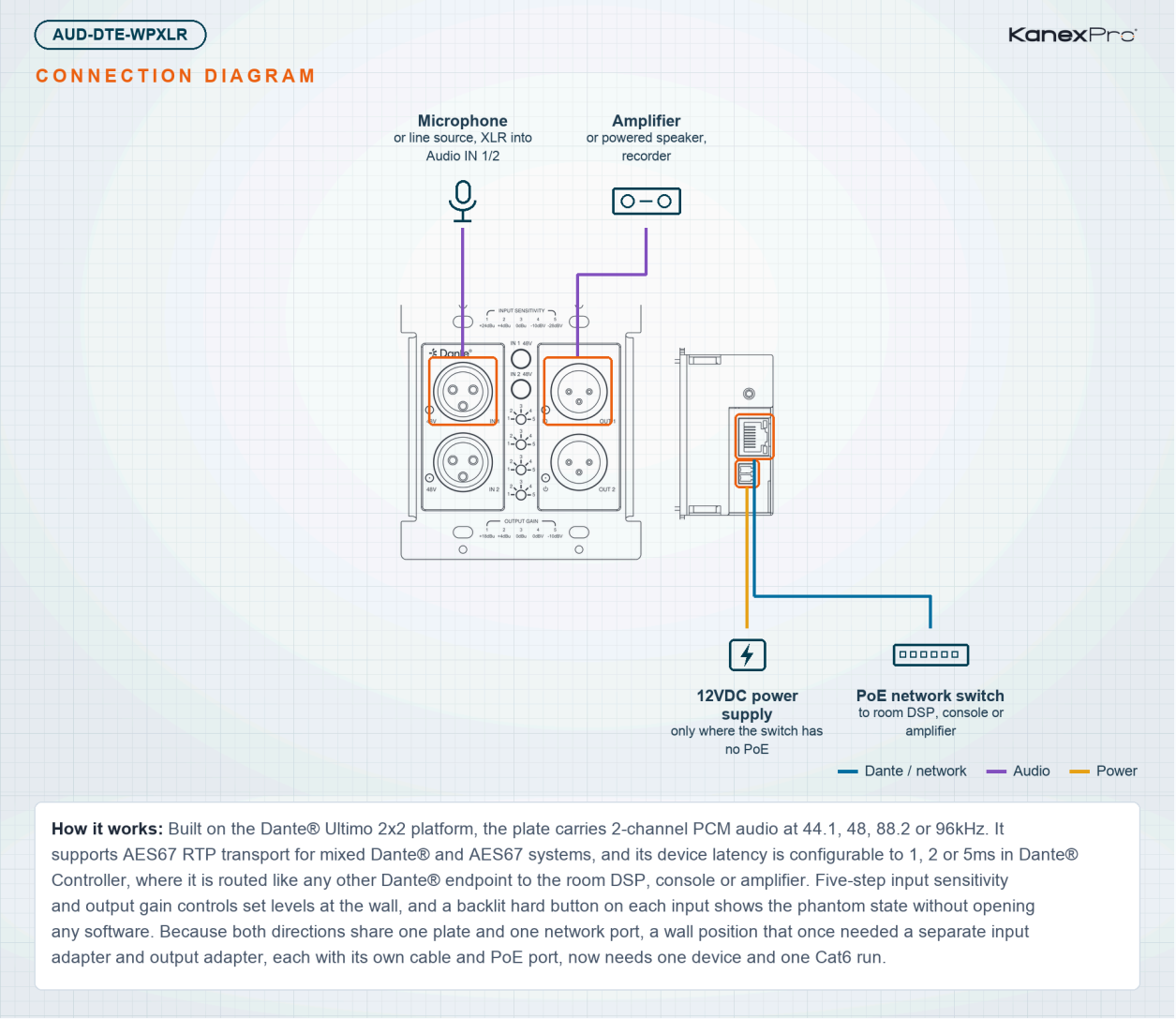
POWERING THE CONVERTER

You can power the converter in one of two ways. Connect it to a PoE network switch, and it powers itself from the DANTE port as a powered device. Or connect a local 12VDC/500mA supply to the DC IN port using the supplied Phoenix connector.

8. Trademarks

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

9. Connection Diagram



How it works: Built on the Dante® Ultimo 2x2 platform, the plate carries 2-channel PCM audio at 44.1, 48, 88.2 or 96kHz. It supports AES67 RTP transport for mixed Dante® and AES67 systems, and its device latency is configurable to 1, 2 or 5ms in Dante® Controller, where it is routed like any other Dante® endpoint to the room DSP, console or amplifier. Five-step input sensitivity and output gain controls set levels at the wall, and a backlit hard button on each input shows the phantom state without opening any software. Because both directions share one plate and one network port, a wall position that once needed a separate input adapter and output adapter, each with its own cable and PoE port, now needs one device and one Cat6 run.

10. Troubleshooting

Q: The front Power LED is off. What should I check?
A: If you are using PoE, confirm the switch port supplies IEEE 802.3af PoE. If the switch has no PoE, confirm a 12VDC/500mA supply is connected to DC IN and the Phoenix connector is fully seated.

Q: The unit has power but does not appear in Dante Controller. What should I check?
A: Look at the rear DANTE port: the yellow LINK LED should stay on, and the green DATA LED should flash while data is moving. If LINK is off, check that the cable is straight-through with T568B at both ends, not a crossover, that it is no longer than 328ft (100m), and that the other end is plugged into the switch.

Q: A condenser microphone gives no signal. What should I check?
A: Press the 48V button for that input and confirm its green 48V LED and the button backlight are both on. Then set that input's knob to match the mic level, and confirm the input is routed in Dante Controller.

Q: Audio is distorted or too quiet. What should I adjust?
A: Set each input knob to match the level of the connected source, and each output knob to match the input of the connected equipment. Keep the sources within limits: 24dBu maximum for line and 50mVRMS for mic.

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