HDMI ARC to Dante Adapter, 2 Channel, PoE

TV Sound onto Your Dante® Network as a Stereo Pair



Puts the audio a display plays or receives onto the Dante network, straight from the TV's HDMI ARC port. That covers the display's own apps and any streaming stick or set-top box plugged into the TV. The AUD-DTE-ARC takes two-channel PCM from the display's ARC output and converts it to two channels of Dante digital audio in the digital domain, with no analog stage in between. The adapter measures 4.53 × 1.57 × 1.10 in and draws 0.85W. It runs from a single PoE drop (IEEE 802.3af, Class 0) or a local USB-C 5V supply, and mounts behind the screen with the supplied hook & loop fasteners, one adapter per display. It is the right choice for bars, meeting rooms, classrooms, function rooms and media rooms where the display is the source, and where one cable per screen and a direct digital path matter more than an audio extractor, an analog adapter or a full AV-over-IP encoder.

The adapter accepts ARC audio from 32kHz to 192kHz at 16 or 24-bit. It provides Dante 2-channel output with AES67 at 44.1, 48, 88.2 or 96kHz, and device latency can be set to 1, 2 or 5ms. Routing and latency are set in Dante Controller alongside the rest of the system. The USB-C port also gives a serial command interface for status, ARC re-trigger and firmware updates, and a green ARC LED confirms active audio at the display. Its strongest differentiator is where it takes audio from: it captures what the display returns, so audio that never passes through a source rack still reaches the Dante DSP or amplifier.

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.

TABLE OF CONTENTS

1. Features 2
2. Package Contents 2
3. Specifications 2
4. Introduction 3
5. Before you begin: surge protection 3
6. Panel descriptions 4
7. API Commands 4
8. Trademarks 5
9. Connection Diagram 5
10. Troubleshooting 6

1. Features

- ✓ Converts two-channel HDMI ARC audio from a display to Dante 2CH digital audio
- ✓ HDMI ARC input supports PCM 2CH, 32kHz to 192kHz, 16/24-bit
- ✓ Dante output supports PCM 2CH at 44.1, 48, 88.2 and 96kHz, 16/24-bit
- ✓ Sample-rate conversion in the digital domain with no analog stage
- ✓ Dante 2-channel output with AES67
- ✓ Dante device latency configurable to 1, 2 or 5ms in Dante Controller
- ✓ Powered by PoE (IEEE 802.3af, Class 0) or from the local USB-C port (5V/500mA); 0.85W maximum consumption
- ✓ Up to 328ft (100m) from the network switch over CAT6/6A/7
- ✓ USB-C port also provides a virtual RS-232 command interface (115200 baud) for status queries, ARC re-trigger and MCU firmware updates
- ✓ Green ARC LED for active audio input; LINK and DATA LEDs on the Dante port
- ✓ Reset button for the Dante module and MCU
- ✓ Compact plastic enclosure with hook & loop fasteners for mounting behind a display

2. Package Contents

- ✓ 1x AUD-DTE-ARC Dante 2CH ARC Input Adapter
- ✓ 2x Hook & loop fastener

3. Specifications

AUDIO	
Input	Two-channel HDMI ARC audio
Output	Dante 2CH digital audio
ARC Input Format	Digital audio, PCM 2CH, 32kHz–192kHz, 16/24-bit
Dante Output Format	Digital audio, PCM 2CH, 44.1/48/88.2/96kHz, 16/24-bit
AES67	Supported
Dante Device Latency	1, 2 or 5ms, configurable in Dante Controller
Audio Output Delay	<1ms
Frequency Response	20Hz–20kHz (±0dB)
Dynamic Range	>130dB @ 0dBu, 1kHz, A-weighted
S/N Ratio	>130dB @ 0dBu, 1kHz, A-weighted
THD+N	<0.01% @ +4dBu, 1kHz
NETWORK AND CONTROL	
Control Method	Dante Controller; serial API over USB-C
Serial Settings	115200 baud (fixed), 8 data bits, 1 stop bit, no parity
Transmission Distance	328ft (100m) over CAT6/6A/7
CONNECTIONS	
ARC IN	1x HDMI Type A, 19-pin female
DANTE	1x RJ45, PoE
POWER	1x USB-C (5V power input, MCU firmware update, API control)
RESET	1x reset button (Dante module and MCU)

continued

INDICATORS	
ARC LED (Green)	Solid: active audio input detected; flashing: booting
LINK LED (Yellow)	On: network connection established
DATA LED (Green)	Flashing: data transmitting
POWER	
Power Supply	PoE: IEEE 802.3af, Class 0; USB-C: 5V/500mA
Power Consumption	0.85W (max)
PROTECTION	
ESD Protection	IEC 61000-4-2: ±8kV (air-gap discharge), ±4kV (contact discharge)
PHYSICAL	
Housing	Plastic
Color	Black
Dimensions (W x D x H)	4.53 x 1.57 x 1.10 in (115 x 40 x 28 mm)
Weight	0.19 lbs (87 g)
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. Introduction

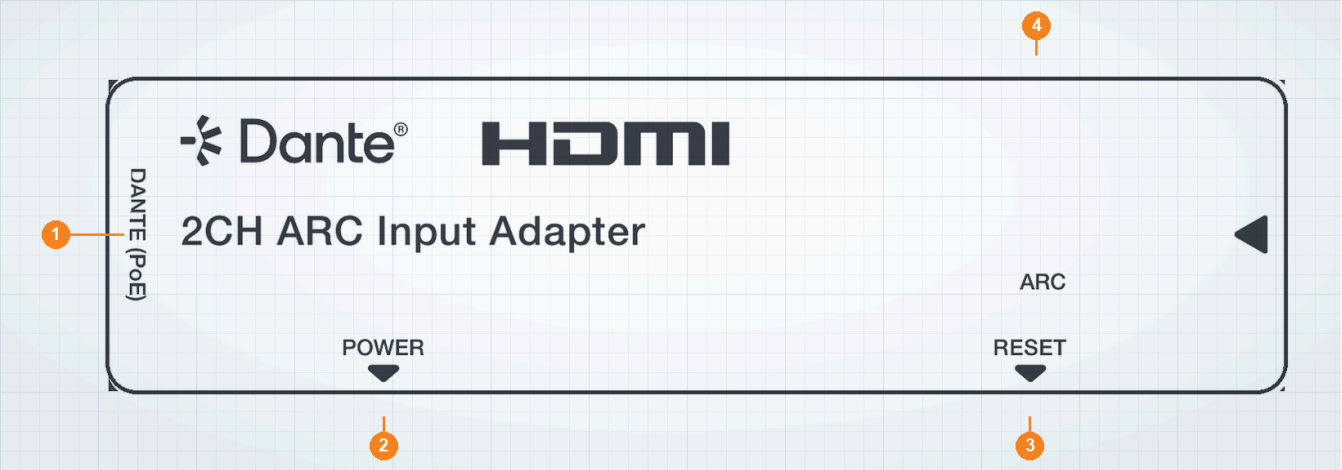
The AUD-DTE-ARC is a Dante® audio transmitter with a 2-channel Dante® output. It takes two-channel audio from a TV's HDMI™ ARC (Audio Return Channel) port, converts it to two-channel Dante® digital audio, and sends it across your network to any Dante® receiver.

The adapter converts the sample rate in the digital domain without signal loss. You can power it from its local USB-C port or from a PoE network switch. It is compact and plug-and-play, and suits recording studios, art festivals, concerts and similar venues.

5. Before you begin: surge protection

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

6. Panel descriptions



Top Label

The manual documents both ends and the top face of the adapter in one numbered table. Here it is in the manual's own numbering and row order.

No.	Name	Function
1	**DANTE (PoE) port**	Dante® 2CH digital audio output. Connect it to your network switch with an RJ45 cable. The unit can be powered over 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 being sent.
2	**ARC LED (green)**	Solid on: active audio input detected. Flashing: the unit is booting.
3	**ARC port**	ARC signal input. Connect it to the ARC-labelled HDMI port on your TV.
4	**RESET button**	Press to reset the Dante® module and the MCU.
5	**POWER port**	USB-C port with three functions: (1) 5V/500mA power input, (2) MCU firmware update, (3) API command control.

7. API Commands

You can control the adapter with text commands over its USB-C port. Connect the POWER port to a PC with a USB-C cable, open a serial terminal program on the PC, and send the commands below. The USB-C port appears on the PC as a virtual RS-232 service port.

Set your terminal to **115200 baud (fixed), 8 data bits, 1 stop bit, no parity**.

COMMAND	FUNCTION	EXAMPLE	FEEDBACK
`?`	List all commands	`?`	
`help`	List all commands	`help`	
`get fw version`	Get firmware version	`get fw version`	`MCU: V1.00.01`
`set reboot`	Reboot the device	`set reboot`	`Reboot… System Initializing... Initialization Finished! BOOT: V1.00.01 MCU: V1.00.01`
`get status`	Get system status	`get status`	See the example below

continued

COMMAND	FUNCTION	EXAMPLE	FEEDBACK
`get arc`	Get ARC status	`get arc`	`ARC on`
`set arc`	Toggle an ARC event: turns the HDMI 5V output off and back on	`set arc`	`ARC event`

When you send `get status`, the adapter replies like this:

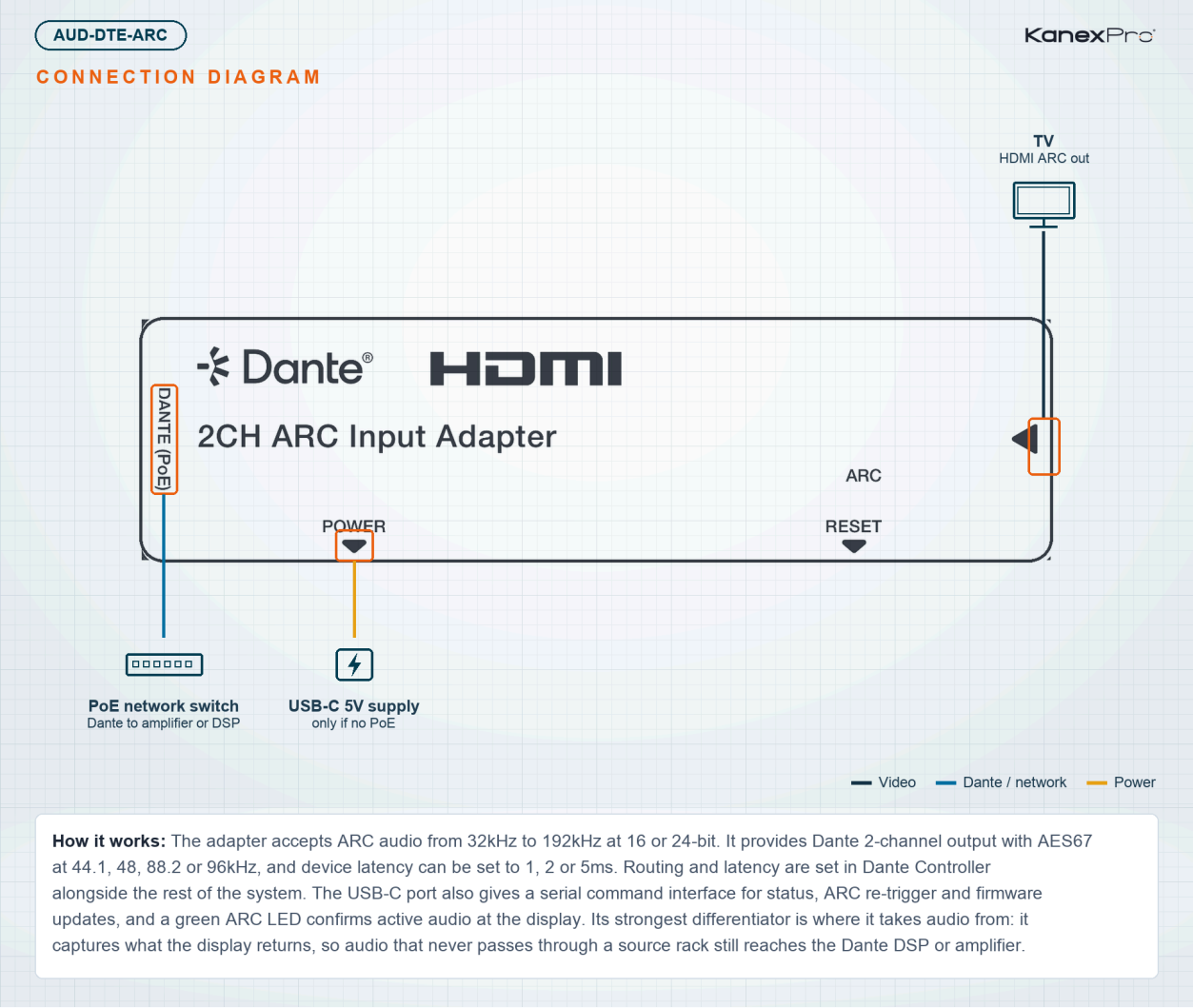
``` ========== Status Info Dante 2CH ARC Input Adapter MCU: V1.00.01

Output Cable ARC HDMI Connected On ========== ```

## 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:** The adapter accepts ARC audio from 32kHz to 192kHz at 16 or 24-bit. It provides Dante 2-channel output with AES67 at 44.1, 48, 88.2 or 96kHz, and device latency can be set to 1, 2 or 5ms. Routing and latency are set in Dante Controller alongside the rest of the system. The USB-C port also gives a serial command interface for status, ARC re-trigger and firmware updates, and a green ARC LED confirms active audio at the display. Its strongest differentiator is where it takes audio from: it captures what the display returns, so audio that never passes through a source rack still reaches the Dante DSP or amplifier.
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10. Troubleshooting

Q: There is no audio from the TV. What should I check?
A: First check the ARC LED: if it is flashing, the unit is still booting; if it never goes solid, no audio is being detected. Make sure the cable goes to the TV's ARC-labelled HDMI port, then send get status or get arc over USB-C to check the cable and ARC state. If ARC still shows off, send set arc to re-trigger the ARC connection.

Q: The adapter does not appear in Dante Controller. What should I check?
A: Check the yellow LINK LED. If it is off, there is no network connection, so check the RJ45 cable (CAT6/6A/7, up to 328ft/100m) and the switch port. If the unit has no power at all, confirm the switch port supplies IEEE 802.3af PoE or power it from USB-C at 5V/500mA. Also make sure the computer running Dante Controller is on the same network.

Q: The adapter shows in Dante Controller, but the receiver gets no sound. What next?
A: With the ARC LED solid, check that the green DATA LED is flashing, which means audio data is being sent. Then confirm in Dante Controller that the adapter's two channels are routed to the receiver, and that the receiver supports one of the output rates: 44.1, 48, 88.2 or 96kHz.

Q: The adapter has stopped responding. How do I restart it?
A: Press the RESET button, which resets both the Dante module and the MCU. If the serial port still responds, you can also send set reboot over USB-C.

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