



Zenty | Professional A/V Solution Provider

User Manual ^[V1.0]



Dante 2CH Analog Audio Encoder with PoE (XLR)

ZT-472 | ZT-DA2EX



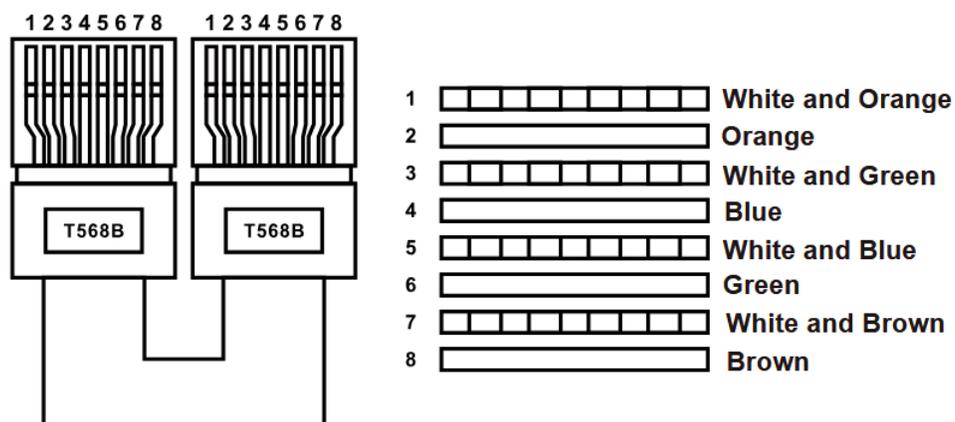
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SAFETY PRECAUTIONS

- Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.
- Please keep the following in mind as you unpack and install this equipment:
- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

Caution

The product requires the use of UTP connectors. Please connect in direct interconnection method and do not cross connect.



Direct Interconnection Method

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1. Introduction

This Dante ® 2CH XLR Input Adapter is an audio transmitter based on the Dante ® Ultimo 2x2 solution. It converts two-channel balanced/unbalanced XLR analog audio into Dante ® 2CH digital audio, then transmits the audio to the receiving end through network (Dante®). Analog audio input supports 5-level sensitivity adjustment.

The adapter supports local USB-C port power supply and PoE function.

2. Features

- Two-channel XLR analog audio to Dante ® 2CH digital audio
- Balanced/unbalanced XLR analog audio input
- Dante ® audio sampling rate supports 44.1/48/88.2/96KHz@24bit
- Dante ® audio delay supports 1/2/5ms (configurable)
- Analog audio input supports 5-level sensitivity adjustment (+24dBu, +4dBu, 0dBu, 0dBv, -10dBv)
- Supports local USB-C port power supply and PoE function (Class 0802.3af PoE)
- Compact design for easy and flexible installation

3. Package Contents

- (1) x Dante 2CH XLR Input Adapter
- (2) x Hook & Loop
- (1) x User Manual

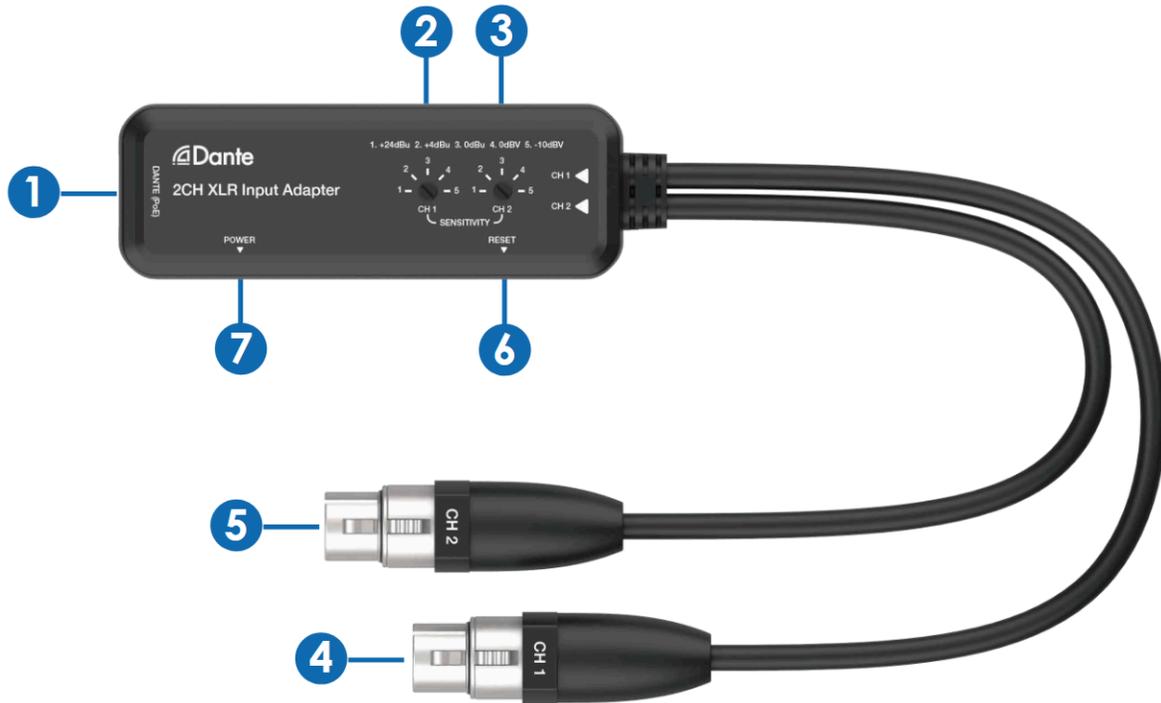
4. Specifications

Technical	
Input	Two-channel balanced/unbalanced XLR analog audio
Output	Dante ® 2CH digital audio
Control Method	Dante ® Controller

Video Network Bandwidth	100M	
Audio Latency	Configurable Dante® device latency (Supports 1, 2 or 5ms configurable using Dante® Controller)	
Audio Formats	XLR IN [Analog audio input, Balanced/unbalanced 2CH, Max input level +24dBu] DANTE OUT [Digital audio output, PCM 2CH 44.1K-96KHz 16/24bit]	
Audio Parameters	XLR Analog Audio In	
	Input Impedance	20k Ohm balanced 10k Ohm unbalanced
	Line Input Level (Maximum)	+24dBu (12.28Vrms) @balanced audio +18dBu (6.15Vrms) @unbalanced audio
	Frequency Response	20Hz to 20kHz (-/+0.5dB)
	Dynamic Range	>100dB@0dBu, 1kHzA-weighted
	Audio S/N Ratio	>100dB@0dBu, 1kHzA-weighted
	Audio THD+N	< 0.01% at +4dBu, 1KHz
	Audio Output Sync Delay	<10ms
Transmission Distance	328ft/100m (CAT6/6A/7)	

ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input port	2x CH1/CH2 XLR IN [XLR female plug, with 30cm cable] 1x POWER [USB-C power and firmware update port, 12-pin female]
Output port	1x DANTE [RJ45 connector, PoE]
Others	1x RESET button [System reboot button] 2x SENSITIVITY knob [5-level dip switch]
Mechanical	
Housing	Plastic Enclosure
Color	Black
Dimensions	115mm [W] x 40mm [D] x 28 mm [H]
Weight	173g
Power Supply	USB input: 5V/500mA PoE input: PoE IEEE802.3af Class 0
Power Consumption	2W (Max)
Operating Temperature	32 ~ 104°F / 0 ~ 40°C
Storage Temperature	-4 ~ 140°F / -20 ~ 60°C
Operating Humidity	20% ~ 80% RH (relative humidity, non-condensing)
Storage Humidity	10% ~ 90% RH (relative humidity, non-condensing)

5. Operation Controls and Functions



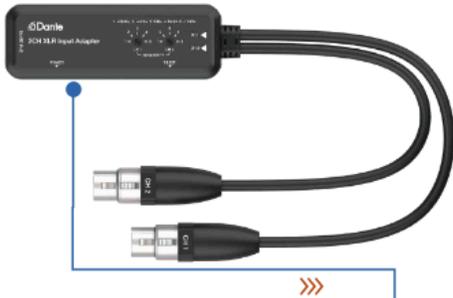
No.	Name	Function Description
1	DANTE (PoE) Port	Dante ® digital audio output port, connected to the Network Switch through RJ45 line, supporting PD power supply. The green LINK LED is always on after normal connection. The yellow DATA LED is flashing when there is data transmission.
2	CH1 Knob	The 5-level sensitivity adjustment knob for analog audio input channel 1. The knob arrows indicate: 1. +24dBu, 2. +4dBu, 3. 0dBu, 4. 0dBv, 5. -10dBv.
3	CH2 Knob	The 5-level sensitivity adjustment knob for analog audio input channel 2. The knob arrows indicate: 1. +24dBu, 2. +4dBu, 3. 0dBu, 4. 0dBv, 5. -10dBv.
4	CH1 Plug	Balanced/unbalanced XLR analog audio input plug 1, connected to the analog audio source device.

5	CH2 Plug	Balanced/unbalanced XLR analog audio input plug 2, connected to the analog audio source device.
6	RESET Button	Press this button to reboot the unit.
7	POWER Port	USB-C port with following two functions: (1) USB-C 5V/500mA power input port. (2) Firmware update port.

Note: The RESET button can only be used for device reboot, and device reset setting needs to be done through the Dante® Controller.

6. Application Example

Dante® 2CH XLR Input Adapter



Network Switch (PoE)



Dante® Amplifier



Dante® 2CH XLR Output Adapter

Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner, or benzine to clean.

Warranty

If your product does not work properly because of a defect in materials or workmanship, our company (referred to as “the warrantor”) will, for the length of the period indicated as below, “Parts and Labor (5) Years”, which starts with the date of original purchase (“Limited Warranty period”), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the “Labor” limited warranty period, there will be no charge for labor. During the “Parts” warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

Mail-In Service

When shipping the unit, carefully pack and send it prepaid, adequately insured, and preferably in the original carton. Include a letter detailing the complaint and provide a daytime phone and/or email address where you can be reached phone and/or email address where you can be reached.

Limited Warranty Limits and Exclusions

This Limited Warranty **ONLY COVERS** failures due to defects in material or workmanship and **DOES NOT COVER** normal wear and tear or cosmetic damage. The Limited Warranty **ALSO DOES NOT COVER** damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, mis-adjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributed to acts of God.

There are no express warranties except as listed under “Limited Warranty Coverage”. The warrantor is not liable for incidental or consequential damages resulting from the use of this product or arising out of any breach of this warranty. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive but are for illustration only). Parts and service, which are not covered by this limited warranty, are your responsibility.



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