

Dante® 2-Channel USB-C Audio I/O Adapter



1. INTRODUCTION

This Dante® 2CH USB-C I/O Adapter is an audio converter based on the Dante® Ultimo 2x2 solution. It interconverts between two-channel USB audio and Dante® 2CH digital audio. The adapter supports local USB-C port power supply and PoE function.

2. FEATURES

- ☆ Interconverts between two-channel USB audio and Dante® 2CH digital audio
- ☆ USB audio device class 1.0/2.0-compatible
- ☆ USB audio output up to 192KHz@24bit, USB audio input up to 96KHz@24bit
- ☆ Dante® audio sampling rate supports 44.1/48/88.2/96KHz@24bit
- ☆ Dante® audio delay supports 1/2/5ms (configurable)
- ☆ Supports local USB-C port power supply and PoE function (Class 0 802.3af PoE)
- ☆ Compact design for easy and flexible installation

3. PACKAGE CONTENTS

- ① 1× Dante® 2CH USB-C I/O Adapter
- ② 2× Hook & Loop
- ③ 1× User Manual

Surge Protection Recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, or lightning strikes. Use of surge protection is highly recommended.

Caution — Network Cable

The network cable connection method required for this product is direct connection. Please do not cross connect.

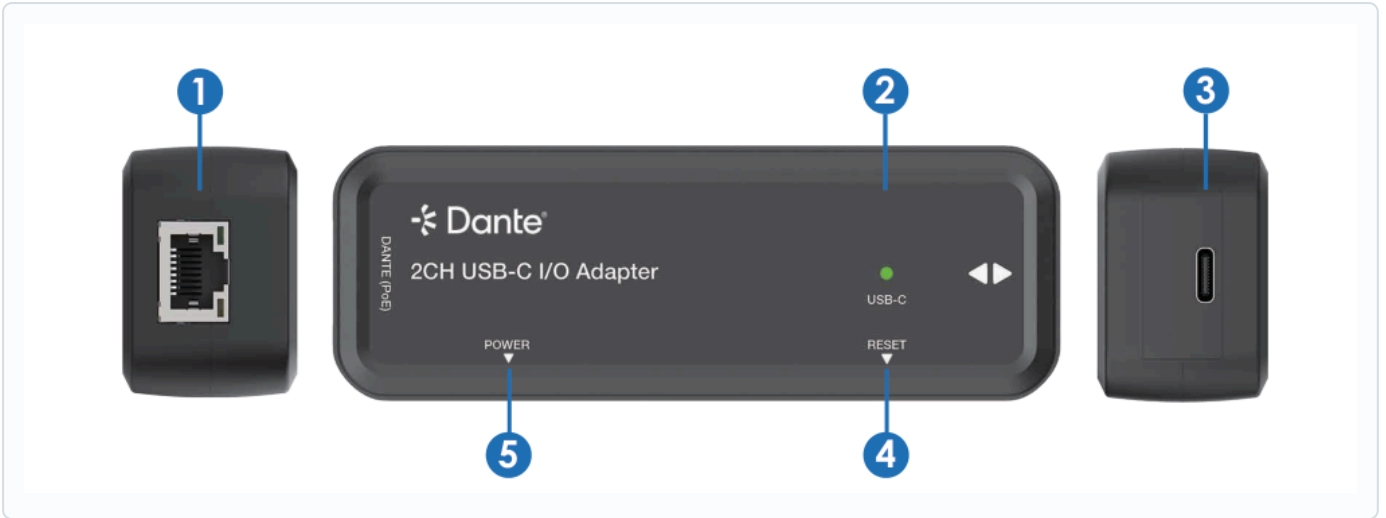


4. Specifications

TECHNICAL	
Control Method	Dante® Controller
Network Bandwidth	100M
Audio Formats	USB AUDIO IN: Digital audio input, PCM 2CH 44.1K–96KHz 16/24bit USB AUDIO OUT: Digital audio output, PCM 2CH 44.1K–192KHz 16/24bit DANTE IN/OUT: Digital audio input/output, PCM 2CH 44.1K–96KHz 16/24bit
Transmission Distance	328ft / 100m (CAT6/6A/7)
Audio Latency	Configurable — supports 1, 2, or 5ms via Dante® Controller
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap) & ±4kV (Contact discharge)
USB AUDIO IN — AUDIO PARAMETERS	
Frequency Response	20Hz to 20kHz (±0dB)
Audio S/N Ratio	>130dB, 1kHz A-weighted
Dynamic Range	>130dB, 1kHz A-weighted
Audio THD+N	<0.01% at +4dBu, 1kHz
Audio Output Sync Delay	<10ms
Line Input Level (Max)	N/A
Input Impedance	N/A
USB AUDIO OUT — AUDIO PARAMETERS	
Frequency Response	20Hz to 20kHz (±0dB)
Audio S/N Ratio	>130dB, 1kHz A-weighted
Dynamic Range	>130dB, 1kHz A-weighted
Audio THD+N	<0.01% at +4dBu, 1kHz
Audio Output Sync Delay	<10ms
Line Output Level (Max)	N/A
Output Impedance	N/A
CONNECTION	
DANTE	1× RJ45 — Digital audio in/out, PoE
USB-C (Audio)	1× USB-C with USB 1.0/2.0, audio in/out, 12-pin female
POWER	1× USB-C power and firmware update port, 12-pin female
RESET	1× System reboot button
USB-C LED	1× Green, USB 5V indicator
POWER	
USB Input	5V / 500mA
PoE Input	IEEE 802.3af Class 0
Power Consumption	1.65W (Max)
MECHANICAL	
Housing	Plastic Enclosure
Color	Black
Dimensions	115mm [W] × 40mm [D] × 28mm [H]
Weight	94g
ENVIRONMENTAL	
Operating Temperature	32°F – 104°F / 0°C – 40°C
Storage Temperature	-4°F – 140°F / -20°C – 60°C
Operating Humidity	20% – 80% RH (non-condensing)
Storage Humidity	10% – 90% RH (non-condensing)



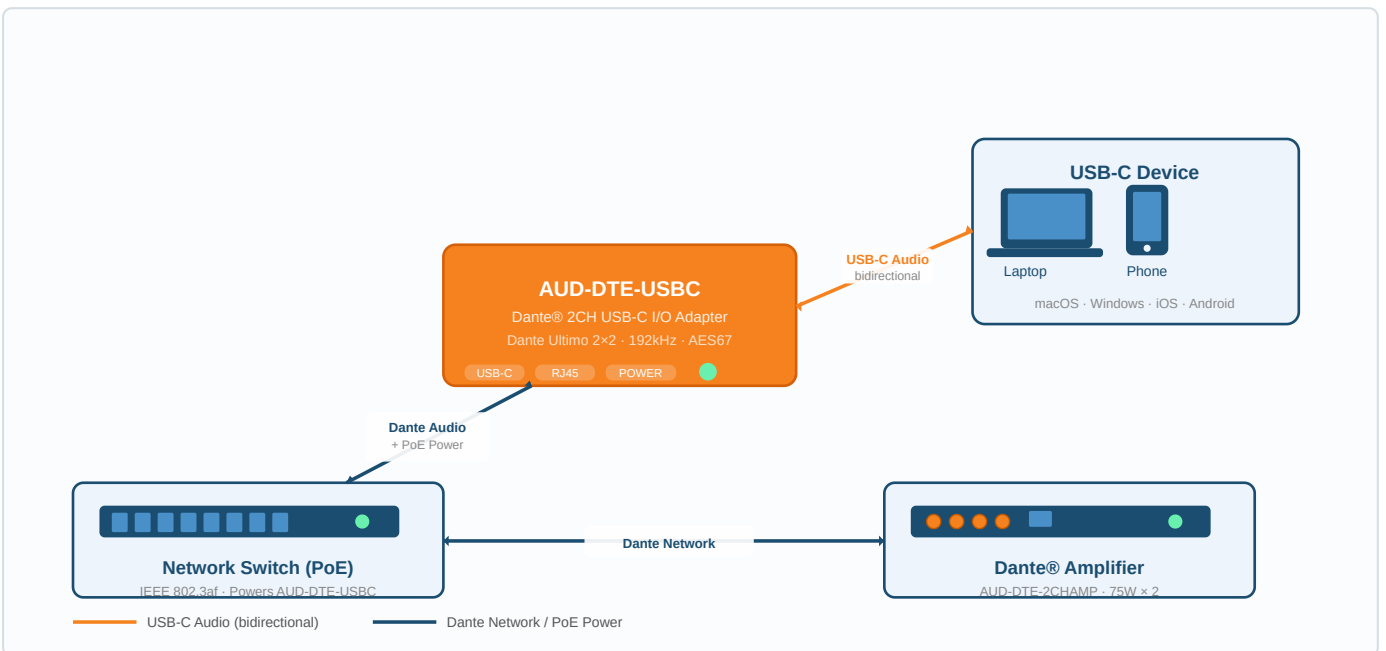
5. Operation Controls and Functions



NO.	NAME	FUNCTION DESCRIPTION
1	DANTE (PoE) port	Dante® digital audio input/output port, connected to the Network Switch through RJ45 line, supporting PD power supply. Green LINK LED always on after normal connection. Yellow DATA LED flashes during data transmission.
2	USB-C LED (green)	When there is power input at the USB-C port, the USB-C LED will be on.
3	USB-C port	(1) USB-C audio signal input/output port, connected to USB-C audio source/playback device. (2) USB 5V/500mA power input port.
4	RESET button	Press this button to reboot the unit.
5	POWER port	(1) USB-C 5V/500mA power input port. (2) Firmware update port.

Note: The RESET button can only be used for device reboot. Device reset settings must be performed through the Dante® Controller.

6. Application Example



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