adertech

VC-UCDN

Dante® 2CH USB-C I/O Adapter



Manual Version 1.1

Thank you for purchasing this product

We have done everything possible to ensure that our equipment pleases our consumers. When solving any problems in the operation and connection ADERTECH equipment, it is best to contact authorized companies and specialists who work with our equipment. Our equipment is intended for professional use, so you have professional skills in using such equipment. ADERTECH is a manufacturer of a wide range of multimedia solutions.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Caution

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

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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

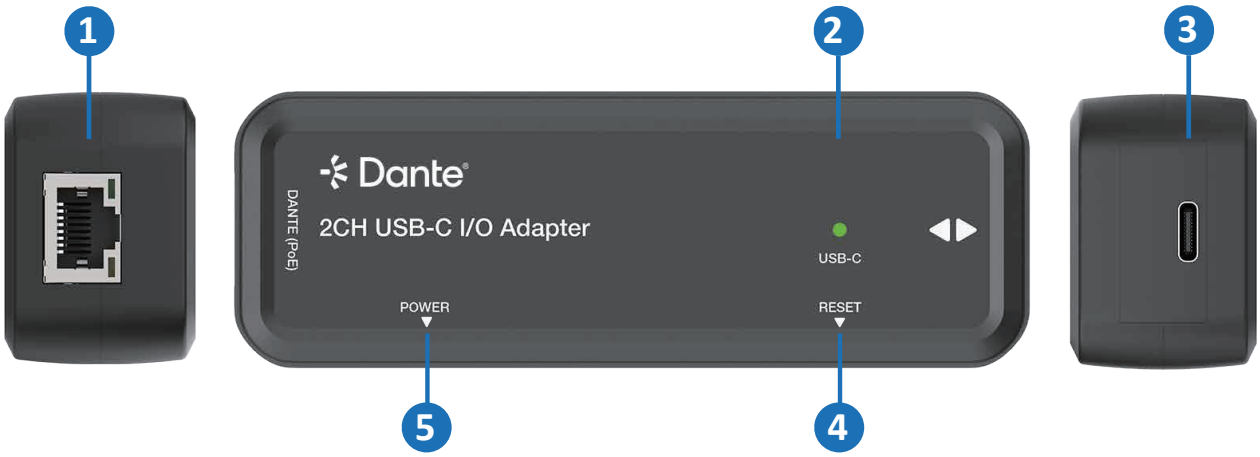
① 1x Dante® 2CH USB-C I/O Adapter
② 2x Hook & Loop
③ 1x User Manual

4. Specifications

Technical		
Control Method	Dante® Controller	
Video Network Bandwidth	100M	
Audio Latency	Configurable Dante® device latency (Supports 1, 2 or 5ms configurable using Dante® Controller)	
Transmission Distance	328ft/100m (CAT6/6A/7)	
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]	
Audio Parameters	**USB AUDIO IN**	
	Input Impedance	N/A
	Line Input Level (Maximum)	N/A
	Frequency Response	20Hz to 20kHz (-/+0dB)
	Dynamic Range	>130dB, 1kHzA-weighted
	Audio S/N Ratio	>130dB, 1kHzA-weighted
	Audio THD+N	< 0.01% at +4dBu, 1KHz
	Audio Output Sync Delay	<10ms

ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) &±4kV (Contact discharge)
Connection	
1x DANTE [RJ45 connector, Digital audio in/out, PoE] 1x USB-C [USB-C with USB 1.0/2.0, USB audio in/out, 12-pin female] 1x POWER [USB-C power and firmware update port, 12-pin female] 1x RESET button [System reboot button] 1x USB-C LED [Green color, USB 5V indicator]	
Mechanical	
Housing	Plastic Enclosure
Color	Black
Dimensions	115mm [W] x 40mm [D] x 28 mm [H]
Weight	94g
Power Supply	USB input: 5V/500mA PoE input: PoE IEEE802.3af Class 0
Power Consumption	1.65W (Max)
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 (relative humidity, non-condensing)
Storage Humidity	10% ~ 90% RH (relative humidity, non-condensing)

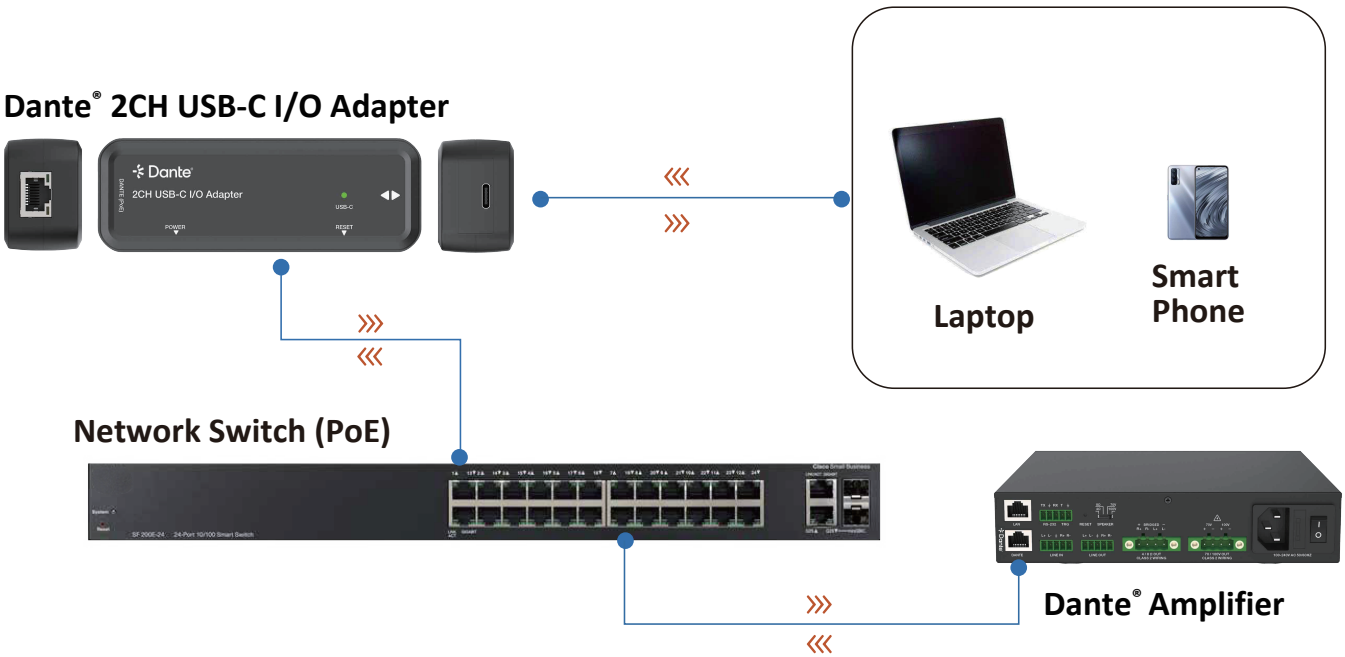
5. Operation Controls and Functions



No.	Name	Function Description
1	DANTE (PoE) port	Dante® digital audio input/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	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	USB-C port with following two functions: (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	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



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