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iTrans DB22

Dante® 2CH Bluetooth Input Adapter

User Manual

VER 1.0

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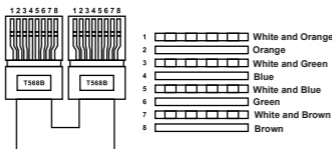## Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

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.

1	White and Orange
2	Orange
3	White and Green
4	Blue
5	White and Blue
6	Green
7	White and Brown
8	Brown

Direct Interconnection Method

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1. Introduction

This Dante® 2CH Bluetooth Input Adapter is an audio transmitter based on the Dante® Ultimo 2x2. It converts two-channel Bluetooth audio into Dante® 2CH digital audio, then transmits the audio to the receiving end through network (Dante®).

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

2. Features

☆ Two-channel Bluetooth audio to Dante® 2CH digital audio
☆ Supports Bluetooth V5.1, SBC/AAC/APTX/APTX-LL/APTX-HD, up to 192KHz@24bit
☆ Dante® audio sampling rate supports 48KHz@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
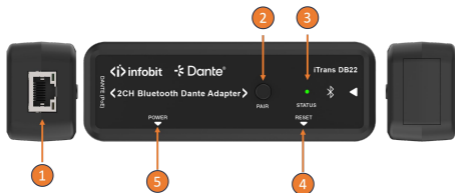
3. Package Contents

① 1x Dante® 2CH Bluetooth Input Adapter
② 2x Hook & Loop
③ 1x User Manual

4. Specifications

Technical		
Input	Two-channel Bluetooth 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	Bluetooth IN [Digital audio input, PCM 2CH 44.1K-192KHz 16/24bit] DANTE OUT [Digital audio output, PCM 2CH 48KHz 16/24bit]	
Audio Parameters	Input Impedance	N/A
	Line Input Level (Maximum)	N/A
	Frequency Response	20Hz to 20kHz (-/+0dB)
	Dynamic Range	>100dB@2Vrms, 1kHzA-weighted
	Audio S/N Ratio	>100dB@2Vrms, 1kHzA-weighted
	Audio THD+N	<0.01%@0dBV, 1KHz
Transmission Distance	328ft/100m (CAT6/6A/7)	
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)	
Connection		
Input	1x POWER [USB-C port, 12-pin female] 1x Bluetooth Input [Wireless]	
Output	1x DANTE [RJ45 connector, PoE]	
Others	1x RESET button [System reboot button] 1x PAIR button 1x STATUS LED	

Mechanical	
Housing	Plastic Enclosure
Color	Black
Dimensions	115mm [W] x 40mm [D] x 28 mm [H]
Weight	93g
Power Supply	USB input: 5V/500mA PoE input: PoE IEEE802.3af Class 0
Power Consumption	0.65W (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.

No.	Name	Function Description
2	PAIR button	Bluetooth pairing button. ▪ Short press this button to start Bluetooth pairing. ▪ Long press up to 5s to clear the current paired source device and start a new Bluetooth pairing.
3	STATUS LED (green)	Bluetooth pairing indicator light: ▪ Solid on: Bluetooth is paired. ▪ Light flicking at 2Hz: Bluetooth is pairing. ▪ Light flicking at 1Hz: Bluetooth is not paired.
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 or Bluetooth update port. Send the serial port command "set bt update" to switch to the Bluetooth update mode. After Bluetooth update, please reboot the unit to take effect.

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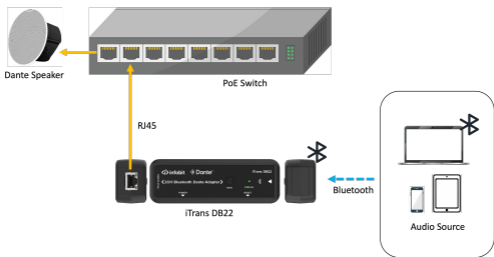
6. API Commands

The adapter supports API commands control. Connect the POWER port to a PC with a USB-C cable. Then, open a serial command tool on PC to send API commands to control the adapter.

The supported commands are as follow.

Command	Function Description
?	Get the list of all commands
help	Get the list of all commands
get fw version	Get firmware version
set reboot	Reboot the device
set reset	Reset to factory defaults
set bt update	Bt Update

7. Application Example

Trademarks

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