



A 3168 DANTE® 2CH BLUETOOTH INPUT ADAPTER



User Manual

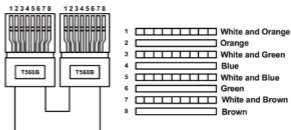
Overview

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.

Caution

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



Direct Interconnection Method

Features

- Two-channel Bluetooth audio to Dante® 2CH digital audio
- Supports Bluetooth V5.1, SBC/AAC/APTX/APTX-LT/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

Package Contents

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

Specifications

Technical		
Input	Two-channel bluetooth audio	
Output	Dante® 2 channel digital audio	
Control Method	Dante® Controller	
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% at 0dBV, 1KHz
Transmission Distance	100m (CAT6/6A/7)	
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)	

Specifications (continued)

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	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Operating Humidity	20% ~ 80% RH (relative humidity, non-condensing)
Storage Humidity	10% ~ 90% RH (relative humidity, non-condensing)

Operation Controls and Functions



No	Name	Function
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	PAIR button	Bluetooth pairing button. <ul style="list-style-type: none"> • 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. <i>Note: Above button operations are only available when "Bluetooth discoverable" is set to "on" (default). If user only want the particular device to be connected to this Bluetooth, they can set "Bluetooth discoverable" to "off" through API command or PC tool via USB-C power port, and at this moment the button will be non-functional.</i>
3	STATUS LED (green)	Bluetooth pairing indicator light: <ul style="list-style-type: none"> • Solid on: Bluetooth is paired. • Light flickering at 2Hz: Bluetooth is pairing. • Light flickering 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: <ol style="list-style-type: none"> (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.

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 following

API Commands				
Service port (USB-C virtual RS-232) communication protocol Baud rate: 115200 (Fixed) Data bit: 8 Stop bit: 1 Parity bit: none				
Command	Function	Example	Feedback	Factory Default
?	List all commands	?		
help	List all commands	help		
get fw version	Get firmware version	get fw version	MCU FW v1.0.0 Bluetooth FW v36	
set reboot	Reboot the device	set reboot	Reboot... System Initializing... Initialization Finished! MCU FW v1.0.0 Bluetooth FW v1.0.0	
set reset	Reset the factory defaults	set reset	Sure to RESET to default settings? Type "Yes" after next prompt to confirm...	
get status	Get system status	get status	Please refer to the note for "get status".	

Command	Function	Example	Feedback	Factory Default
set bt name <x>	Set Bluetooth device name	set bt name <Dante Adapter>	Set Bluetooth device name to Dante Adapter	
get bt name	Get Bluetooth device name	get bt name	Dante Adapter-12345	12345 = Mac address last 5 letters
set bt discover on/off	Set Bluetooth discoverable on/off	set bt discover on set bt discover off	Set Bluetooth discoverable on Set Bluetooth discoverable off	on
get bt discover	Get Bluetooth discoverable on/off status	get bt discover	On	
get bt connection	Get Bluetooth connection status	get bt connection	Connected Disconnected	
get bt source	Get Bluetooth connected source name	get bt source	Tom of iPhone 15 No source connected	
set bt paired clear	Clear Bluetooth paired sources	set bt paired clear	Clear Bluetooth paired sources	
set bt update	Set Bluetooth FW update	set bt update	Bluetooth update...	

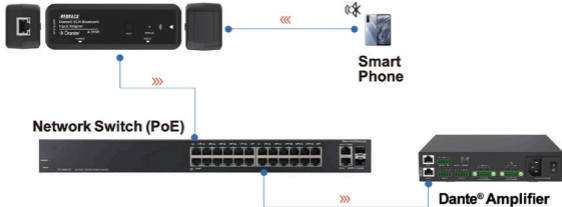
Note: The feedback of the command of “get status” is as following. (The middle line ends with <LF><CR> and the last line ends with <CR><LF>.)

=====
Status Info Dante 2CH Bluetooth Input Adapter MCU FW v1.0.0
Bluetooth FW v36

Bluetooth_Name : Dante Adapter-12345
Bluetooth_Discoverable : On
Bluetooth_Connection : Connected
Bluetooth_Source : Tom of iPhone 15
=====

Application Example

Dante® 2CH Bluetooth Input Adapter



Trademarks

Dante® is registered trademark of Audinate Pty Ltd. All other trademarks are the property of their respective owners.

Warranty Statement

Altronic Distributors warrants this product for one year from date of purchase from Altronics or its resellers to the consumer. If this item is part of an installation or another product, please contact the installer or supplier for your warranty.

During the warranty period, we undertake to repair or replace your product at no charge if found to be defective due to a manufacturing fault. The warranty excludes damage by misuse or incorrect installation (i.e. failure to install and operate device according to specifications in the supplied instruction manual), neglect, shipping accident, or no fault found, nor by use in a way or manner not intended by the supplier.

For repair or service please contact your **PLACE OF PURCHASE**.

If this item was purchased directly from Altronics please make a warranty claim by:

FOR MAIL ORDER CUSTOMERS (includes school and trade orders),

- a. Ringing us on 08 9428 2122 and quoting your tax invoice number.
- b. Upon contacting Altronics, we will issue an R.A. (Return Authorisation).
As Altronics have a number of service agents throughout Australia, a copy of the R.A. will be emailed, faxed or mailed to you with full instructions of how and where to send the goods. The freight for shipping goods back to Altronics for all repairs is at the customers expense.
- c. A copy of the R.A. form, (or at the very minimum, the R.A. number) must accompany the goods to effect the repair.
- d. Altronics will pay the return freight to the customer where the warranty claim has been accepted.

Warranty Statement (continued)

- e. Please quote the R.A. number in any correspondence to us.

FOR OVER THE COUNTER PURCHASES to make a warranty claim, please return the goods to us in any of our stores, with a copy of your proof of purchase (tax invoice).

- a. Upon leaving the goods at one of our stores, an R.A. number will be issued to you.
- b. Once repaired, you will be contacted, advising that the goods are ready to be collected from the store.

It is at Altronics discretion as to whether the goods will be repaired or replaced (whilst under warranty); and as to whether identical goods will be used to replace the item due to changes of models / products.

Note: Under no circumstances should you attempt to repair the device yourself or via a non-authorised Altronics service centre, as this will invalidate the warranty!

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.