TURTLE

DANTE DUAL XLR INPUT ADAPTER

User Manual

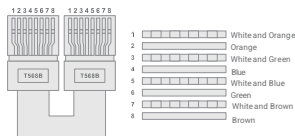VER 1.0

Thank you for purchasing TURTLE 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

Table of Contents

TURTLE

1. Introduction

Unlock the power of pristine digital audio with the two-channel XLR analog audio to Dante® 2CH digital audio. Built on the cutting-edge Dante® Ultimo 2x2 solution, this adapter converts two-channel balanced or unbalanced analog XLR to crystal-clear Dante® digital audio.

With 5-level sensitivity adjustment for analog inputs, you can tailor your sound with ease. Additionally, the adapter is powered via USB-C or PoE, ensuring flexible and convenient power options.

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 0 802.3af PoE)
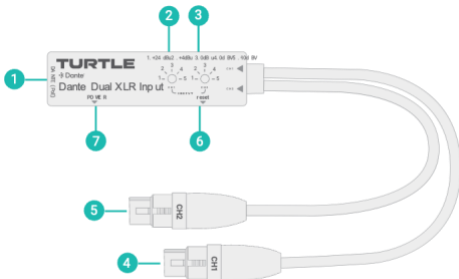- Compact design for easy and flexible installation

3. Package Contents

- 1x Dante® 2CH XLR Input Adapter
- 2x Hook & Loop
- 1x 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)

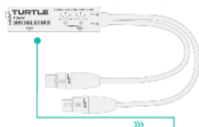| Connection	
Input port	2x CH1/CH2 XLR IN [XLR female plug, with 30cm cable] 1x POWER [USB-C power and firmware update port, 12-pin female]
Output port	1x DANTE [RJ45 connector, PoE]
Others	1x RESET button [System reboot button] 2x SENSITIVITY knob [5-level dip switch]
Mechanical	
Housing	Plastic Enclosure
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.

No.	Name	Function Description
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

Mixing Console

DVD or Blu-ray Player

Network Switch (PoE)

Dante® Amplifier

Dante® 2CH XLR Output Adapter

Audio Amplifier

Speakers

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