DXA-LINE-RX

Dante® Line Decoder

USER MANUAL

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Table of Contents

Thank you for purchasing this product

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

Important Safety Note – Surge Protection Recommended

This product contains sensitive electronic components that may be damaged by electrical spikes, surges, lightning strikes, or static discharge. To protect and extend the service life of your equipment, we strongly recommend using a surge protection device.

Warranty Registration

Activate your warranty by registering your product at:
→ **www.orei.com/register**

Need Technical Support? We're Here to Help.
Our experienced Technical Support Team is available to answer your questions, offer expert advice, and help troubleshoot any issues to keep your project on track—on time and on budget.

Live Support Hours (US/Canada/Mexico):

Monday–Friday | 9:00 a.m. – 5:00 p.m. Central Time

Contact Us:
Email: info@orei.com
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Send us an instant message—our team typically responds within moments during live support hours.

Introduction

The ToVi DXA-LINE-RX is a 2-channel Dante® line-level audio decoder built to decode high-quality analog audio from standard IP networks. It converts Dante® 2-channel digital audio to two-channel balanced or unbalanced analog signals, ensuring reliable, low-latency audio distribution in professional network audio environments.

Supporting 24-bit audio with sampling rates of 44.1 kHz, 48 kHz, 88.2 kHz, and 96 kHz, the DXA-LINE-RX also offers selectable audio delay options of 1 ms, 2 ms, or 5 ms for precise system timing. A 5-level output gain adjustment (+18dBu, +4dBu, 0dBu, 0dBv, -10dBv) allows seamless integration with a wide range of audio devices.

For flexible installation, the unit can be powered either via the side USB-C port or through PoE (IEEE 802.3af Class 0). Its compact, plug-and-play design makes it ideal for space-constrained professional AV and Dante audio deployments.

Features

1. **2-Channel Dante®-to-Analog Conversion** – Converts Dante® digital streams to line-level analog audio
2. **Balanced & Unbalanced Outputs** – Compatible with profes sional and consumer audio devices
3. **5-Level Gain Adjustment** – Provides +18dBu, +4dBu, 0dBu, 0dBv, and -10dBv output levels.
4. **High Bitrate Audio** – Up to 96kHz/24-bit audio sampling rate
5. **Configurable Audio Delay** – 1ms, 2ms, or 5ms latency settings
6. **Dual Power Options** – Powered via USB-C or PoE (IEEE 802.3af)
7. **Compact & Durable Design** – Space-efficient for fixed or porta ble installations
8. **Plug-and-Play** – Seamless integration with Dante®-enabled networks

Package Contents & Specifications

Package Contents

1.	DXA-LINE-RX	1pcs
2.	6pin-3.5mm Phoenix Connector (male)	1pcs
3.	Hook & Loop	2pcs
4.	User Manual	1pcs

Specifications

Technical	
Input	Dante® 2CH digital audio
Output	Two-channel balanced/unbalanced analog audio
Control Method	Dante® Controller
Network Bandwidth	100Mbps
Audio Latency	Configurable Dante® device latency (Supports 1, 2 or 5ms configurable using Dante® Controller)
Audio Formats	DANTE IN [Digital audio input, PCM 2CH 44.1K-96KHz 16/24bit] LINE OUT [Analog audio output, Balanced/unbalanced 2CH, Max output level +18dBu]

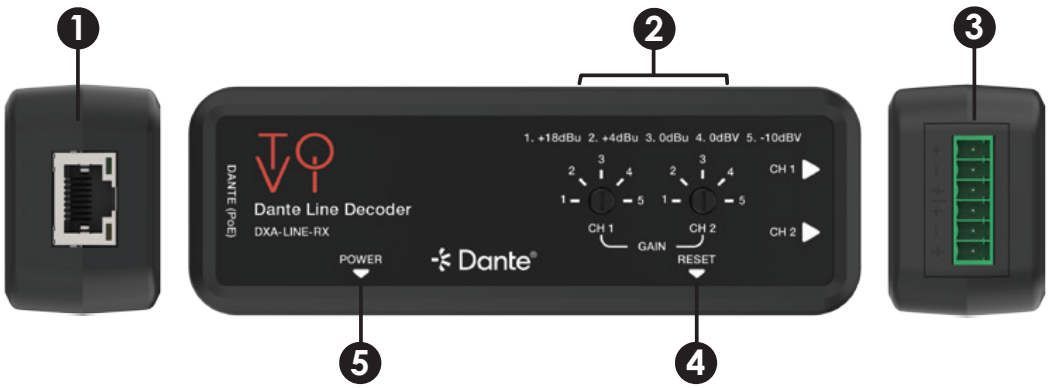
Specifications

LINE OUT Audio Parameters	
Output Impedance	600 Ohm balanced 300 Ohm unbalanced
Line Output Level (Max)	+18dBu (6.15Vrms) @balanced audio +12dBu (3.08Vrms) @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)
Connections	
Input	1× DANTE [RJ45 connector, PoE] 1× POWER [USB-C power port, 12-pin female]
Output	2× CH1/CH2 LINE [6pin-3.5mm phoenix connector]

Specifications

Mechanical	
Housing	Plastic Enclosure
Color	Black
Dimensions	L: 115mm / 4.53in | W: 40mm / 1.57in | H: 28mm / 1.10in
Weight	94g / 3.32oz
Power Supply	USB input: 5V/500mA PoE input: PoE IEEE802.3af Class 0
Power Consumption	1.25W (Max)
Operation Temperature	32˚F~104˚F/0˚C~40˚C
Storage Temperature	-4˚F~140˚F/-20˚C~60˚C
Operating Humidity	20%~80% relative humidity, non-condensing
Storage Humidity	10%~90% relative humidity, non-condensing

Operation Controls and Functions

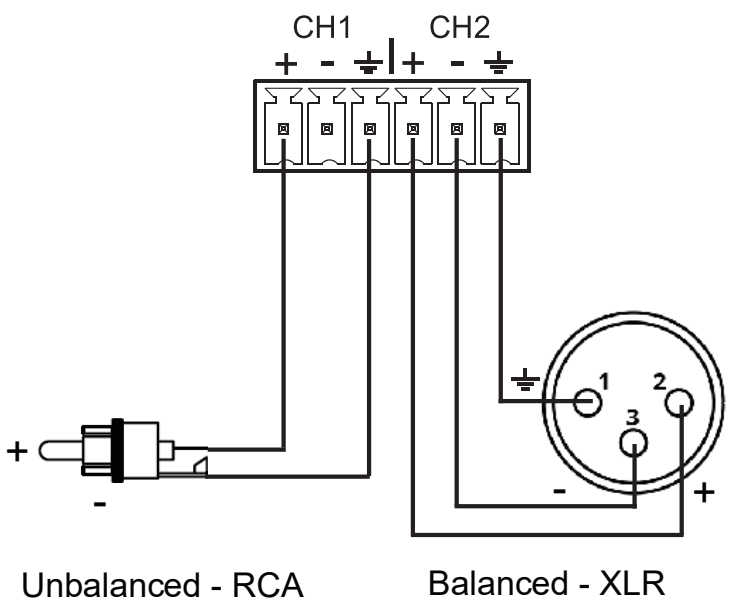


No.	Name	Function Description
1.	DANTE (PoE) port	Connect to a 1G network switch for PoE and signal transmission. **Green LINK LED**: Remains steady when the network connection is established successfully. **Yellow DATA LED**: Blinks during active Dante® audio data transmission.
2.	CH 1/2 Knob	Used to adjust the output gain for analog audio channels 1 and 2. It has 5 gain levels: 1. +18dBu, 2. +4dBu, 3. 0dBu, 4. 0dBv, 5. -10dBv
3.	CH 1/2 port	Connect an audio output device using a phoenix con-nector.
4.	RESET button	Press this button to reboot the unit.
5.	POWER	USB-C port for connecting a 5V/500mA power supply to power the device

Wiring Configuration

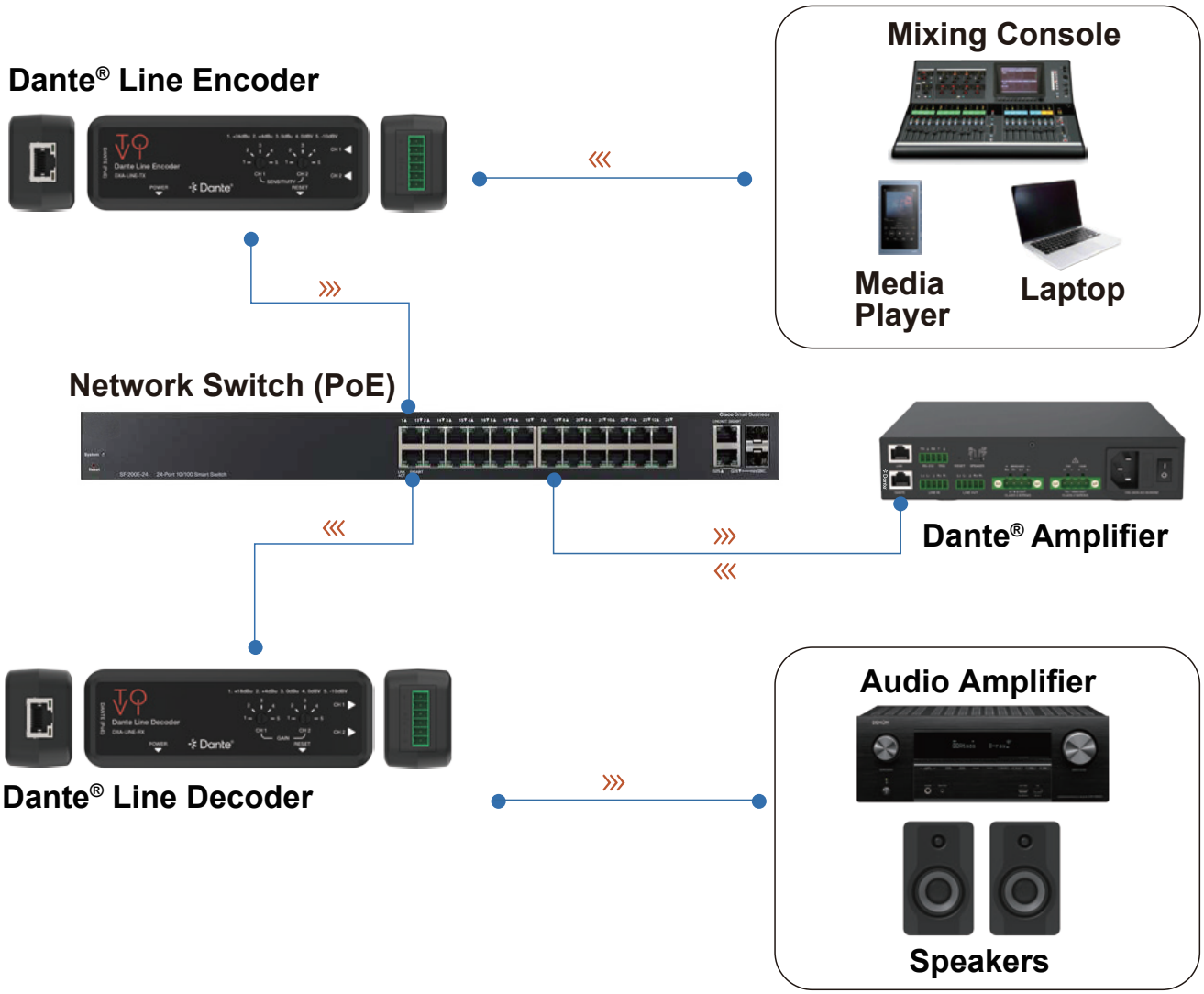
Note: The RESET button will only reboot the device; device reset must be performed through the Dante® Controller software.

The connection methods for balanced and unbalanced analog audio ports are as follows:



Unbalanced - RCA Balanced - XLR

Application Example



Trademarks

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FAQs & Troubleshooting

1. Audio dropouts or unstable playback
- Ensure the audio format is set to PCM or Stereo from the audio source device settings. - Increase Dante latency to 2 ms or 5 ms in Dante Controller - Press the Reset button to reboot the unit or do a hard reset within Dante Controller software.

2. The device does not appear in Dante® Controller
- Confirm the device is powered (via USB-C or PoE). - Make sure your computer and the device are on the same network/sub-net. - Disable or configure firewalls that may block network discovery.

3. Noise or interference in audio
- Try using using balanced connection - Ensure proper grounding of equipment - Keep audio cables away from power lines

Still have some questions?

Please feel free to contact us at: info@orei.com. OR Fill out the form on the 'Contact Us' page on the website.

Our team will be more than happy to help you.

OREI Live Technical Support Hours

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