



Dante® Bluetooth Encoder

USER MANUAL

**Follow us on Youtube
and Facebook**



www.orei.com

Table of Contents

Introduction	04
Features	05
Package Contents	06
Specifications	06
Operation Controls and Functions	09
API Commands	10
Application Example	13
FAQs & Troubleshooting	14

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

📞 Phone: 877-290-5530

💬 Chat Live: www.orei.com

Send us an instant message—our team typically responds within moments during live support hours.

Introduction

The ToVi DXA-BT-TX is a 2CH Dante Bluetooth input transmitter designed to integrate Bluetooth audio sources into professional Dante® audio networks. Built on the Dante® Ultimo 2x2 platform, it converts two-channel Bluetooth audio into high-quality Dante® digital audio, enabling reliable audio distribution over standard IP networks. It also supports AES67 interoperability for seamless integration with AES67-enabled audio-over-IP networks and devices.

Supporting Bluetooth V5.1 and multiple high-performance audio codecs including SBC, AAC, aptX, aptX-LL, and aptX-HD, the adapter delivers stable connectivity and excellent sound quality from smartphones, tablets, laptops, and other Bluetooth-enabled devices. It supports source audio sampling rates up to 192kHz/24-bit, while Dante® transmission operates at 48kHz/24-bit with configurable network latency (1/2/5ms) for optimized system performance.

The DXA-BT-TX offers flexible powering options through USB-C local power or PoE (IEEE 802.3af), allowing simple installation. With its compact, lightweight design and plug-and-play operation, it is ideal for conference rooms, classrooms, hospitality spaces, and commercial AV applications requiring seamless wireless audio input to Dante® and AES67 audio systems.

1. **Bluetooth to Dante® Conversion** – Converts Bluetooth stereo audio into Dante® 2CH digital audio with APTX-HD/LL, AAC, and SBC support.
2. **Bluetooth V5.1 Support** – Reliable wireless connectivity with extended range and stability.
3. **High Sampling Rate Input** – Supports Bluetooth audio up to 192kHz@24bit.
4. **Professional Audio Quality** – Maintains 48kHz/24bit Dante® audio sampling for broadcast-grade performance.
5. **AES67 Compatible** – Supports AES67 interoperability for seamless integration with AES67-enabled audio-over-IP networks and devices.
6. **Configurable Latency** – Adjustable 1ms, 2ms, or 5ms delay for perfect synchronization.
7. **Dual Power Options** – Operates via USB-C or PoE (802.3af) for flexible installation.
8. **Compact and Durable Design** – Space-efficient form factor for portable and fixed installations.
9. **Plug-and-Play Operation** – Simple setup with automatic Dante® network discovery.

Package Contents & Specifications

Package Contents

1.	DXA-BT-TX	1 pcs
2.	Hook & Loop	2pcs
3.	User Manual	1 pcs

Specifications

Technical	
Input	Two-channel Bluetooth audio
Output	Dante® 2CH digital 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	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 (Max)	N/A
Frequency Response	20Hz to 20kHz ($\pm$ 0dB)
Dynamic Range	> 100dB@2Vrms, 1 kHzA-weighted
Audio S/N Ratio	> 100dB@2Vrms, 1 kHzA-weighted
Audio THD+N	< 0.01%@0dBV, 1 KHz
Transmission Distance	328ft/100m (CAT6/6A/7)
ESD Protection	IEC 61000-4-2: $\pm$ 8kV (Air-gap discharge) & $\pm$ 4kV (Contact discharge)

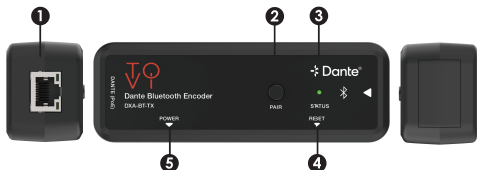
Connections

Input	1× Bluetooth [Wireless] 1× POWER [USB-C port, 12-pin female]
Output	1× DANTE [RJ45 connector, PoE]

Specifications

Mechanical	
Housing	Plastic Enclosure
Color	Black
Dimensions	L: 115mm / 4.53in W: 40mm / 1.57in H: 28mm / 1.10in
Weight	93g / 3.28oz
Power Supply	USB input: 5V/500mA PoE input: PoE IEEE802.3af Class 0
Power Consumption	0.65W (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)	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.	PAIR button	Used for Bluetooth pairing. Short press: Start Bluetooth pairing. Long press (up to 5 seconds): Clear the currently paired device and start pairing with a new one. Note: The PAIR button works only when Bluetooth discovery is set to On (default). If discovery is set to Off using the API command or PC tool via the USB-C port, the button will not work.

Operation Controls and Functions & API Commands

No.	Name	Function Description
3.	STATUS LED (green)	Shows Bluetooth status: • Solid ON: Bluetooth is connected. • Blinking at 2Hz: Bluetooth is pairing. • Blinking at 1Hz: Bluetooth is not connected.
4.	RESET button	Press to restart the unit.
5.	POWER port	This port has two functions: 1. Provides 5V/500mA power input. 2. Used for firmware or Bluetooth updates. a. Send the serial command "set bt update" to enter Bluetooth update mode. b. Restart the unit after the update to apply changes.

Note: The Reset button only reboots the device. To reset the device to factory settings, please use the Dante® Controller software or API commands.

API Commands

The encoder 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 encoder.

The supported commands are mentioned below.

API Commands

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 Initial- izing... Initialization Finished! MCU FW v1.0.0 Bluetooth FW v1.0.0	
set reset	Reset to 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".	
set bt name <x>	Set Bluetooth device name	set bt name <Dante Adapter>	Set Bluetooth device name to Dante Adapter	

API Commands

Command	Function	Example	Feedback	Factory Default
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.

API Commands & Application Example

=====

Status Info Dante 2CH Bluetooth Input Adapter

MCU FW v1.0.0 Bluetooth FW v36

Bluetooth_Name : Dante Adapter-12345

Bluetooth_Discoverable : On

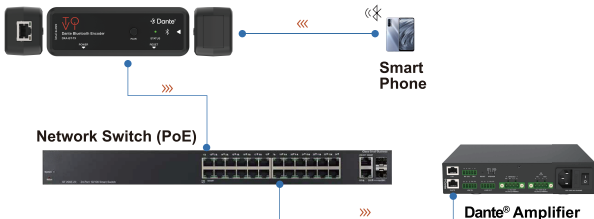
Bluetooth_Connection : Connected

Bluetooth_Source : Tom of iPhone 15

=====

Application Example

Dante® Bluetooth Encoder



Trademarks

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

FAQs & Troubleshooting

1. The device does not appear under Bluetooth on my phone or laptop.

- Confirm the device is powered (via USB-C or PoE).
- Press the PAIR button on the Encoder to enter pairing mode
- Long press the PAIR button to clear any other device that may already be connected to the Encoder.

2. Audio is not heard on Dante Decoders

- Ensure proper routing in Dante Controller software.
- Ensure the sampling rate set at the source is supported by the Decoders.
- Check if the Decoders are on the same network/subnet.

3. Audio dropouts or unstable playback

- Move the Bluetooth source device closer to the encoder.
- 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.

4. Audio delay between Bluetooth source and Dante output

- Use an audio source that supports aptX Low Latency (aptX-LL) codec.
- Reduce Dante latency in Dante Controller.

5. 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.

6. How do I route audio from the device?

All audio routing is managed through Dante® Controller software. The device appears as a Dante® transmitter, allowing its audio channels to be routed to other Dante®-enabled devices, including ToVi Dante® models.

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

US team (US/Canada/Mexico): Monday-Friday, 9 a.m. - 5 p.m. Central Time
Support Email - info@orei.com | **Support Number** - 877-290-5530



Dante[®] Bluetooth Encoder
DXA-BT-TX

www.orei.com

© 2026