

# TSD-DAC2i 2-CH PoE Dante<sup>™</sup> Transmitter





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# TSD-DAC2i 2-CH PoE Dante™ Transmitter

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# Owner's Manual

# TSD-DAC2i 2-CH PoE Dante™ Transmitter

### Important Safety Instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this device near water.
- 6. Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other device that produce heat.



The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the device.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the device. When a cart is used, use caution when moving the cart / device combination to avoid injury from tip-over.
- 13. Unplug this device during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the device has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been splited, or objects heve fallen into the device, the device has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. This product is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
- 16. WARNING: To reduce the risk of fire or electric shock, this device should not be exposed to rain or moisture and objects filled with liquids, such as a vase, should not be placed on this device.
- To completely disconnect this equipment from the mains, disconnect the power supply cord plug from the receptacle.
- 18. The mains plug of the power supply cord shall remain readily operable.
- Protective earthing terminal. The apparatus should be connected to a mains socket with a protective earthing connection.



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### WARNING - When The Device Is In Use

- WARNING: For the terminals marked with symbol of 4 may be of sufficient magnitude to constitute a risk of
  electric shock. The external wiring connected to the terminals requires installation by an instructed person or
  the used of ready-made leads or cords.
- WARNING: The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
- · WARNING: The mains plug is used as disconnect device, the disconnect device shall remain readily operable.
- To prevent electric shock, do not remove the product cover as there are high voltage components inside. Refer all servicing to AtlasIED.
- Should any of the following irregularities occur during use, immediately switch off the power, disconnect the
  power cord from the AC outlet and contact AtlasIED. Do not to attempt to continue operation with the product as
  this may cause fire or electric shock:
  - · Smoke or strange smell coming from the unit.
  - · If the product falls or the case is damaged.
  - · If water or any metallic objects falls into the product.
  - · If the power supply cord is damaged in any way.
  - · If the unit is malfunctioning.
- Do not insert or drop metallic objects or flammable materials into the ventilation holes of the product's cover, as this may result in electric shock or fire.
- Do not place any containers with liquid or metallic objects on the top of the product. If any liquid spills into the unit, fire or electric shock may result.
- · Never operate this product or touch the power supply cord during an electrical storm, electric shock may result.
- Never exceed the power rating on the product when connecting equipment. Fire and/or property damage may
  result.
- Operate the product only with the voltage specified on the unit. Fire and/or electric shock may result if a higher voltage is used.
- Do not modify, kink, or cut the power cord. Do not place the power cord in close proximity to heaters and do not
  place heavy objects on the power cord, including the product itself, doing so may result in fire or electrical shock.
- Ensure that the safety ground terminal is connected to a proper ground. Never connect the ground to a gas pipe as a catastrophic disaster may result.
- Be sure the installation of the product is stable, avoid slanted surfaces as the product may fall and cause injury
  or property damage.



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# **CAUTION - When Installing The Product**

- Plugging in or unplugging the power cord with wet hands may result in electric shock.
- · Never move the unit with the power cord plugged into the wall, as damage to the power cord may result.
- · When unplugging the cord from the wall, grasp the plug, NOT the cord.
- Never install this product in humid or dusty locations, nor in direct sunlight, near sources of heat, or in areas
  where sooty smoke or steam are present. Fire and electric shock may result.
- Keep all sides of the unit at least 3<sup>1</sup>/<sub>2</sub><sup>a</sup> away from objects that may obstruct air flow to prevent the unit's internal temperature rise.



# **CAUTION - When The Product Is In Use**

- Never place heavy objects on the product, causing it to fall and/or break, resulting in personal injury and property damage. In addition, the product itself may fall and cause injury and property damage.
- Contact AtlasIED for instructions on cleaning the inside of the unit. Large accumulations of dust inside the unit may result in heat buildup and fire.
- Ensure that the power supply plug is securely plugged into the wall outlet. Never allow dust to accumulate on the
  power plug or inside the wall outlet.
- When cleaning the unit or the unit is not to be operated for an extended period, unplug the power cord from the wall.



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### TSD-DAC2i 2-CH PoE Dante™ Transmitter

### Introduction

The AtlastED TSD-DAC2i is a PoE 2-CH analog pre-amplifier that converts analog audio signals into Dante" digital audio. The AtlastED TSD-DAC2i can be used for any Analog to Dante" digital audio endpoint but is ideally suited to be used with the AtlastED WTSD wall mixer series. Once converted into Dante" digital audio, the audio can be transmitted over IP networks and routed in the Dante Controller" software. The AtlastED TSD-DAC2i Dante" transmitter Vomodule features two analog balanced line inputs with a variable gain to operate from Line to Mic level. An input clip indicator prevents unwanted input clipping. There are indicators for Power and Network connection. AtlastED TSD-DAC2i requires no external power supply, it is powered via a network PoE port or a POE power injector.

### **Key Features**

- Dante<sup>™</sup> Digital Audio Platform
- · 2-CH Balanced Analog Line Input
- · Gain Adjust
- · AUX, Line & Mic Levels
- Input Clip Indicator
- PoE Powered
- · Mounting Plate
- · Incorporates with WTSD Wall Mixers

# Applications

- Restaurants
- Government Facilities
- Schools
- Industrial Facilities
- · House of Worship



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# **Owner's Manual**

### TSD-DAC2i 2-CH PoE Dante<sup>™</sup> Transmitter

# Front Panel



### 1. Balanced Inputs

CH 1 & CH 2, Ensure proper polarity is observed when connecting devices to the Phoenix connector.

### 2. Input Gain

Rotary Selection

#### 3. Input Clip LED

The LED will illuminate Red when an analog signal exceeds the maximum input level.

#### 4. RJ45 PoE Port

The network LED will illuminate yellow when the unit is connected to a network. The network audio LED will illuminate green / blink when the unit has an IP address and is communicating to the network.

#### 5. Network Audio Indicator

The LED will illuminate blue when Dante<sup>™</sup> audio is being transmitted.



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# Matching Gain from an Analog Source In a Dante<sup>™</sup> Network

Understanding the gain structure is very important to avoid clipping the audio signal or amplifier output. There are three potential ways to clip the signal chain.

#### 1. Amplifier Input Clipping

This occurs when the applied input signal exceeds the maximum input level of the amplifier input stage.

### 2. Amplifier Output Clipping

Driving the amplifier to maximum output level.

#### 3. Digital Clipping

This occurs when the 0dBFS levels are exceeded. This is very important to understand. Several examples are provided to help understand digital to analog gain structure. Note: AtlasIED recommends to always place a limiter set for 0dB in the signal path prior to the Network Output of the transmitting device.

### Selecting the Router or Network Switch - IMPORTANT!

It is extremely important to understand that when selecting a router or switch for the Dante<sup>™</sup> network, not all routers or switches are the same. The size of the Dante<sup>™</sup> network will influence which router or switch is needed to handle network traffic. There are three things to look for at a minimum or system dropouts may occur. Refer to Audinate<sup>®</sup> for products they recommend.

1. Gigabit speed.

- 2. If using a network switch, it must be a "managed switch" type.
- 3. If using a router with a built-in switch, it should have DD-WRT firmware or Open Source firmware.

### Dante<sup>™</sup> Overview

Audinate® created Dante®, an uncompressed, multi-channel digital media networking technology, with near-zero latency and synchronization. Hundreds of Dante® mabled products are available from many manufacturers, enabling devices from multiple manufactures to be deployed in the same installation.

Dante" does away with heavy, expensive analog or multicore cabling, replacing it with low-cost, easily-available CATse, CAT6, or fiber optic cable for a simple, lightweight, and economical solution. Dante" integrates media and control for an entire system over a single, standard IP network.

Dante" systems can easily scale from a simple pairing of a console to a computer, to large capacity networks running thousands of audio channels. The network can be expanded and reconfigured at any time with just a few mouse clicks because Dante" uses logical routes instead of physical point-to-point connections.

Since the signal audio is transmitted digitally, common analog challenges like interference from other electrical equipment, crosstalk between cables, or signal degradation over long cable runs is not a problem. Setting up Dante<sup>™</sup> networks is easy, even the most complex networks can be set up and configured quickly and easily with Dante<sup>™</sup>, making system integration simple.

Signal routing and system configuration with Dante<sup>®</sup> is fast, simple, and incredibly flexible. Dante Controller<sup>®</sup> is a powerful software application that manages devices on the network. Setting up a Dante<sup>®</sup> network is typically just a matter of plugging devices into an Ethernet switch and connecting a computer to the network. All Dante<sup>®</sup> devices are automatically discovered and displayed in Dante Controller<sup>®</sup>, so a system can be up and running in seconds. Visit www.audinate.com for details or to learn more on using Dante<sup>®</sup>. There are many Dante<sup>®</sup> guides available in the industry. AtlasED offers one in the BlueBridge<sup>®</sup> DSSP section of atlasied.com.



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### Important Information About Dante™

#### 1. Dante<sup>™</sup> Levels in Dante Controler<sup>™</sup>

Signal level cannot be added or reduced within Dante Controller<sup>™</sup>. It is strictly a signal router.

#### 2. What Does 0dBFS Mean

dBFS is a unit of measurement for amplitude levels in digital systems. When referenced to a number such as 0dBFS or 20dBFS it is important to know that these are the maximum peak levels before clipping in the digital domain. It is very important to know the source and receiver dBFS specification in order to set up the gain structure when signals are being converted from the digital to analog domain or vise-versa.

#### 3. Industry Standard

At the time of this writing, there is no industry standard between companies for scaling QdBFS gain levels in equipment. In a digital studio this is usually not an issue because most of the same brand is used or a limited number of products are interfaced. However, with live sound or commercial audio there can be multiple brands used in one project. Dante<sup>®</sup> can be great for connectivity between devices but be aware of gain structure matching.

#### 4. Interfacing Data with Different Manufactures Equipment

To help understand scaling here are some examples:

- Source device 0dBFS = 20dBu, transmits to a receiver with a 0dBFS = 20dBu reference, the output is 0dBu. This scenario is ideal when using an amplifier that has a 0dBu (775mV) input sensitivity.
- Source device 0dBFS = 20dBu, transmits to a receiver with a 0dBFS = 10dBu reference, the output is -10dBu. To get full output of an amplifier that has a 0dBu (775mV) input sensitivity, increase the network output levels by 10dBu to get 0dBu into the amplifier's input.
- Source device 0dBFS = 10dBu, transmits to a receiver with a 0dBFS = 20dBu reference, the output is +10dBu. This combination will give too much signal into an amplifier that has a 0dBu (775mV) input sensitivity. Reduce the signal from the DSP Network output.
- Source device 0dBFS = 10dBu, transmits to a receiver with a 0dBFS = 10dBu reference, the output is 0dBu.

#### 5. Understanding Digital Noise vs Headroom

If headroom before clipping is a concern, the higher the ratio between DdBFS and output level, the less likely clipping will be an issue. If the application is paging and background music then a lower number is ok because the headroom is not as critical. In live sound reinforcement applications such as a church band or a concert, more headroom and gain is needed for dynamics. The issue with higher gain in a product is the higher the gain the higher the noise output. To combat high gain output noise, use a Darthe "Transmitter product with good signal to noise ratio specification, such as 100dB or better. For instance, AtlasIED BlueBridge" DSP has a signal to noise ratio of 110dB. The noise is very low before it is amplified, assuring low noise out of the amplifier. Look at the input and output 0dBFS reference points and the noise floor specification. If they are not listed call the manufacturer.



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# Dante Controller<sup>™</sup>

Below is snapshot of the Dante Controller<sup>™</sup> Device Information page for the TSD-DAC2i.

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Below is a snapshot of the Dante Controller<sup>™</sup> Device Configuration page for the TSD-DAC2i.

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Below is a snapshot of the Dante Controller<sup>™</sup> Routing page for the TSD-DAC2i.

Below is a snapshot of the Dante Controller<sup>™</sup> Tansmit page for the TSD-DAC2i.

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# Integrating the TSD-DAC2i with a WTSD Wall Plate Mixer





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# Integrating the TSD-DAC2i with Two Analog Sources





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# Mounting the TSD-DAC2i

Multi Mount Plate - Each TSD includes a versatile multi-position mounting plate. This plate allows the TSD to be mounted to any surface; but is ideal for use with rear rack rails or side rack hat channels. Use the included M3 x 4mm screws to install the plate on the TSD. Note: Only use the included M3 x 4mm screws as other screws may be too long and will cause internal damage to the TSD.





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### TSD-DAC2i 2-CH PoE Dante<sup>™</sup> Transmitter

# **Dimensional Drawings**





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System	
Туре	2-CH PoE Dante™ Transmitter
Network Connection	Single RJ45, CAT5
Inputs	
Input Quantity	2
Input Connectors Type	5 Position Phoenix Type, 3.5mm Pitch
Input Gain Selection (See Note 1)	0dBu Output when reference to 20dBFS equipment "0" = -10dBu, (230mV AUX Levels) "-20" = -10dBu, (25V Line Levels) "+20" = -30dBu (25mV Mic Levels)
Phantom Power	N/A
Outputs	
Output Quantity	0
Output Connectors Type	N/A
Status Indicators	
Input	N/A
Output	N/A
Network	Located on RJ45
Network Audio	Qty 1, Blue
Power	Located on RJ45
RJ45 Jack Indicator	Industry Standard Network Status (Incorporated) Green / Yellow



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Electrical Specifications	
Analog Input Impedance	15ΚΩ
Analog Output Impedance	N/A
Input Clip LED On Threshold	A. "-20" = 23.5 dBu +/-1dBu (11.8V) B. "0" = 9.4dBu +/-1dBu (2.3V) C. "+20" = -10.9dBu +/-1dBu (220mV)
Maximum Input Level	A. "-20" = 23.5 dBu +/-1dBu (11.8V) B. "0" = 9.4dBu +/-1dBu (2.3V) C. "+20" = -10.9dBu +/-1dBu (220mV)
Dante <sup>™</sup> Transmission Speed	100Mbps
Frequency Response	20Hz - 20KHz +/- 2dB
THD	0.06% @ 1KHz
Signal To Noise	95dB @ 1kHz (A Weighted)
Dynamic Range	100dB (-60dBFS A Weighted)
Power	PoE (52V 36mA)
Power Consumption	1.9W
Mechanical	
Dimensions	3.6" W x 1" H x 3.17" D (93mm x 25mm x 81mm)
Weight	7oz (200g)
Color	Black
Material	Steel
Mounting	Mounting Plate & M3 x 4MM Screws, Qty 2

Note 1: The TSD-DAC2i gain adjustments listed above is the amount of analog signal required to achieve 0dBu output in system reference to 20dBFS (Decibels Full Scale). Most commercial and pro audio equipment gains are in the range of 20dBu – 24dBu. Read the entire amountal to understand these settings.



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### TSD-DAC2i 2-CH PoE Dante™ Transmitter

# **Limited Warranty**

All products manufactured by AtlasIED are warranted to the original dealer/installer, industrial or commercial purchaser to be free from defects in material and workmanship and to be in compliance with our published specifications, if any. This warranty shall extend from the date of purchase for a period of three years on all AtlasIED products, including SOUNDOLIER brand, INNOVATIVE FLECTRONIC DESIGNS brand, and AtlasIED brand products. except as follows: one year on electronics and control systems: one year on replacement parts; and one year on Musician Series stands and related accessories. Additionally, fuses and lamps carry no warranty, AtlasIED will solely at its discretion, replace at no charge or repair free of charge defective parts or products when the product has been applied and used in accordance with our published operation and installation instructions. We will not be responsible for defects caused by improper storage, misuse (including failure to provide reasonable and necessary maintenance), accident, abnormal atmospheres, water immersion, lightning discharge, or malfunctions when products have been modified or operated in excess of rated power, altered, serviced or installed in other than a workman like manner. The original sales invoice should be retained as evidence of purchase under the terms of this warranty. All warranty returns must comply with our returns policy set forth below. When products returned to AtlasIED do not qualify for repair or replacement under our warranty, repairs may be performed at prevailing costs for material and labor unless there is included with the returned product(s) a written request for an estimate of repair costs before any non-warranty work is performed. In the event of replacement or upon completion of repairs, return shipment will be made with the transportation charges collect.

EXCEPT TO THE EXTENT THAT APPLICABLE LAW PREVENTS THE LIMITATION OF CONSEQUENTIAL DAMAGES FOR PERSONAL INJURY, ATLASIED SHALL NOT BE LIABLE IN TORT OR CONTRACT FOR ANY DIRECT, CONSEQUENTIAL ON INCIDENTIAL LOSS OR DAMAGE ARISING OUT OF THE INSTALLATION, USE OR INABILITY TO USE THE PRODUCTS. THE ABOVE WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTBAILITY AND FITNESS FOR A PARTICULAR PURPOSE.

AtlastED does not assume, or does it authorize any other person to assume or extend on its behalf, any other warranty, obligation, or liability. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

### Service

Should your TSD-DAC2i require service, please contact the AtlasIED warranty department at 1-877-689-8055, ext. 277 or www.atlasied.com/support to obtain an RA number.

AtlasIED Tech Support can be reached at 1-800-876-3333 or www.atlasied.com/support

Visit our website at www.AtlasIED.com to see other AtlasIED products.

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