



AU-DTM1

Dante Wall Plate & Microphone Kit

/// OPERATION MANUAL

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Version 1.1

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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.
- Please completely disconnect the power when the unit is not in use to avoid wasting electricity.

VERSION HISTORY

REV.	DATE	SUMMARY OF CHANGE
v1.00	06/05/2025	Initial Release
v1.01	31/07/2026	Corrected dimensions

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1. INTRODUCTION

This wall plate integrates Dante® technology (digital audio network via Ethernet), a high-quality microphone, and a line output into a transceiver. Every Transceiver is capable of simultaneous bi-directional audio extension via Cat.5e/6/7 cable over distances up to 100 metres, enhancing the flexibility of any installation. Thanks to the integrated support for Dante/AES67 technology which extends and routes audio across standard Ethernet networks, this unit forms an important part of an easier and more flexible system for managing large audio systems than traditional point-to-point physical wiring. Dante does away with the bundles of heavy, expensive, multi-core analogue audio cables and replaces it with low cost, and easy to manage, Cat.5e/6/7 cables while maintaining the high quality expected from uncompressed digital audio. Due to the nature of packet-based Ethernet data transmission, there is no need to worry about the traditional enemies of long distance audio extension, such as analogue signal interference, crosstalk, or signal attenuation. All of this is provided with the absolute minimum of latency (typically around 1ms).

The unit is powered directly by PoE (Power over Ethernet) which allows for increased installation location flexibility. Basic device configuration is provided by serial while routing and network configuration management is provided via 3rd party control software.

2. APPLICATIONS

- /// Home Theaters
- /// Classrooms
- /// Lecture Halls

3. PACKAGE CONTENTS

- /// 1× Dante Wallplate Transceiver with Microphone
- /// 1× Microphone
- /// 1× 3-pin Terminal Block
- /// 1× Operation Manual

4. SYSTEM REQUIREMENTS

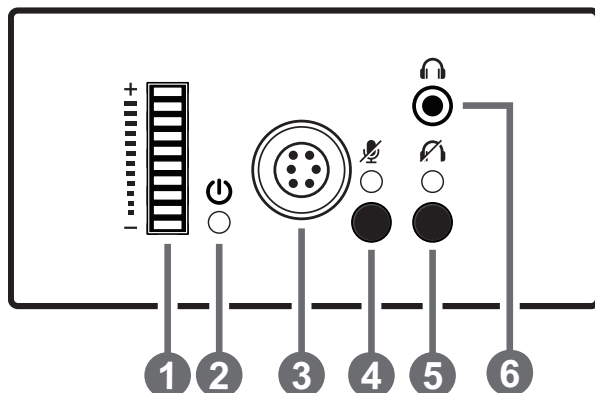
- /// An active network connection from a switch or router that supports PoE (802.3af) for extension of Dante audio and to power the unit.
- /// Analogue audio receiving equipment such as audio amplifiers or powered speakers.
- /// 3rd party control software, such as Dante Controller from Audinate, is required to configure and manage audio routes between Dante endpoints.

5. FEATURES

- /// One standard Dante bi-directional port
- /// High quality DAC (Digital to Analogue audio Conversion) functionality from microphone to stereo audio
- /// Powered directly by PoE (802.3af) provided by the network switch or router connected to the Dante port
- /// Simple and easy audio routing via 3rd party control software which is available for both Windows and macOS systems
- /// Compatible with existing Dante audio networks and AES67
- /// Basic device configuration via serial
- /// Dante audio networking uses standard IP networks to transmit high-quality audio with near-zero latency
- /// Provides non-compressed audio performance
- /// Ensures sample-accurate time alignment between networked devices
- /// Exposes real-time latency statistics, clock status, and signal presence information to the network

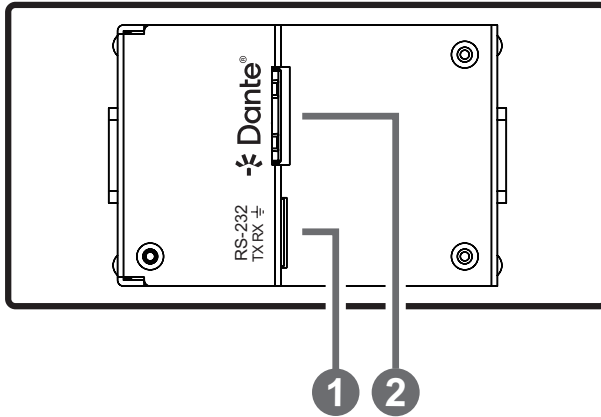
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



- ❶ **Volume–/+ LEDs:** These LEDs will illuminate progressively to indicate the current microphone volume level.
- ❷ **POWER LED:** This LED will illuminate to indicate the unit is on and receiving power.
- ❸ **Microphone IN Port:** Connect to the included microphone for analogue mono audio input.
- ❹ **Microphone IN Mute Button and LED:** Press to toggle between muting and unmuting the microphone input. The LED will illuminate when mute is active.
- ❺ **LINE OUT Mute Button and LED:** Press to toggle between muting and unmuting the analogue audio output. The LED will illuminate when mute is active.
- ❻ **LINE OUT Port:** Connect to powered speakers, headphones, or an amplifier for analogue stereo audio output.

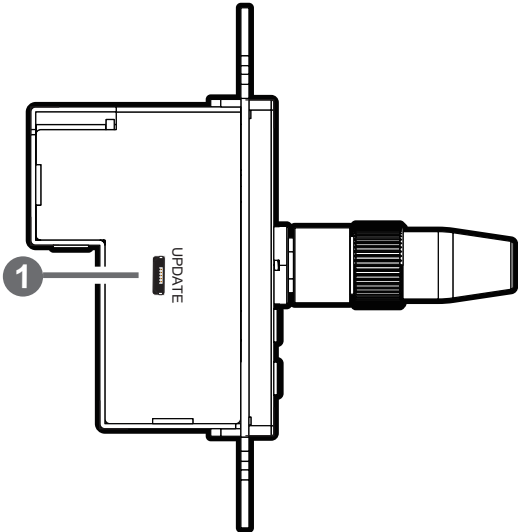
6.2 Rear Panel



- ❶ **RS-232 3-pin Terminal Block:** Connect directly to a PC, laptop, or other serial control device with a 3-pin adapter cable to send RS-232 commands to control the unit.
- ❷ **DANTE Port:** Connect to a standard Ethernet network switch or router, which is hosting Dante audio sources, with a single Cat.5e/6/7 cable for reception of all routed digital audio signals.

Note: This unit is powered via PoE (802.3af) which must be supplied by the network switch or router connected to the Dante port.

6.3 Left Side Panel

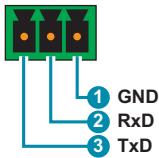


- 1 UPDATE Port (USB 2.0 Micro-B):** This port is reserved for firmware update use only.

6.4 Serial Pinout and Defaults

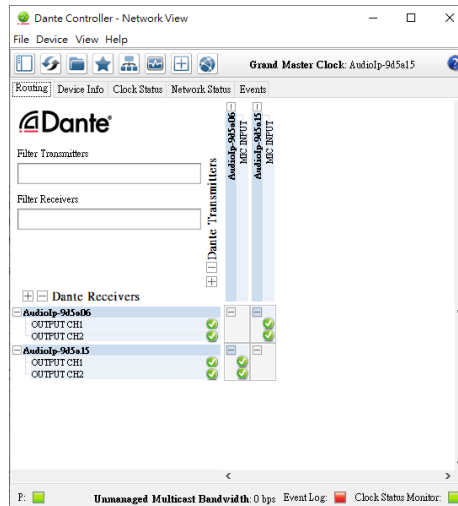
Serial Port Default Settings	
Baud Rate	19200
Data Bits	8
Parity Bits	None
Stop Bits	1
Flow Control	None

3-pin Terminal Block



6.5 Audio Routing Control

Discovery of Dante hardware and control over the behavior and routing of Dante audio is managed via 3rd party control software or hardware. The simplest available option is the Dante Controller software which is freely available directly from Audinate (www.audinate.com). This is a fully software based solution for controlling multiple audio transmitters and receivers, in a variety of configurations, providing full and detailed control over the audio handling of each individual unit. The Dante Controller software is available for both Windows and macOS systems.



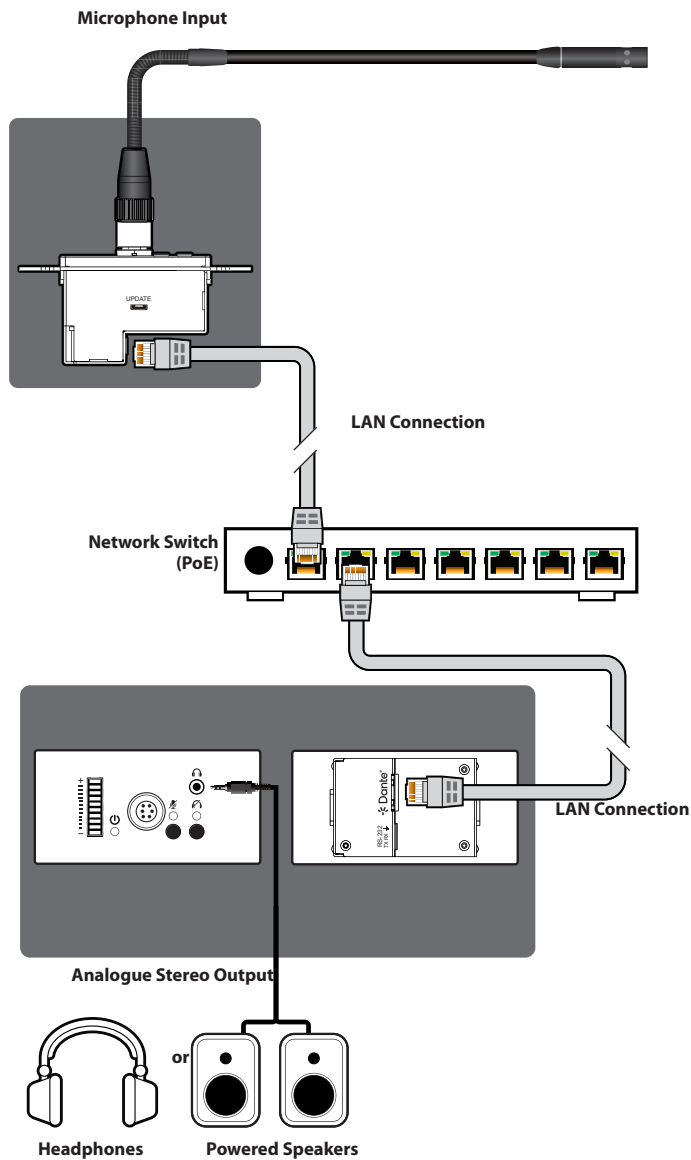
6.6 Serial Commands

COMMAND
Description and Parameters
help↵ Show the full command list.
help N1↵ Show details about the specified command. N1 = {Command}
? ↵ Show the full command list.
? N1 ↵ Show details about the specified command. N1 = {Command}
get fw ver↵ Show the unit's current firmware version.
set factory default↵ Reset the unit to the factory defaults.
set system usb fw update↵ Trigger the unit's firmware update state and load the new firmware file via USB.
set audio out A mute N1↵ Enable or disable muting audio output. Available values for N1 : ON [Mute] OFF [Unmute]

COMMAND	
Description and Parameters	
get audio out A mute ↵	
Show the current mute state of audio output.	
set audio in 1 mute N1 ↵	
Enable or disable muting audio input.	
Available values for N1 :	
ON	[Mute]
OFF	[Unmute]
get audio in 1 mute ↵	
Show the current mute state of audio input.	

*Note: Commands will not be executed unless followed by a carriage return.
Commands are not case-sensitive.*

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

8.1 Technical Specifications

Ethernet Bandwidth	100Mbps
Input Port	1×Analogue Mono Audio (6-pin mini DIN)
Output Port	1×Analogue Stereo Audio (3.5mm)
Bi-directional Port	1×Dante (RJ-45)
Control Port	1×RS-232 (3-pin Terminal Block)
Service Port	1×USB 2.0 (Micro-B)
Baud Rate	19200
Power Supply	PoE (802.3af)
ESD Protection (HBM)	±8kV (Air Discharge) ±4kV (Contact Discharge)
Dimensions (W×H×D)	99.8mm×49.7mm×48.35mm [Case Only] 99.8mm×49.7mm×493.35mm [All Inclusive]
Weight	225g
Chassis Material	Metal (Aluminum)
Chassis Colour	White
Operating Temperature	0°C – 40°C/32°F – 104°F
Storage Temperature	–20°C – 60°C/–4°F – 140°F
Relative Humidity	20 – 90% RH (Non-condensing)
Power Consumption	7.47W

8.2 Audio Specifications

8.3.1 Digital Audio

Dante Input / Output	
LPCM	
Max Channels	2 Channels
Sampling Rate (kHz)	48
Bitstream	
Supported Formats	None

8.3.2 Analogue Audio

Analogue Input	
Max Audio Level	200mVrms
Impedance	4.49kΩ
Type	Unbalanced
Analogue Output	
Max Audio Level	2Vrms
THD+N	< -80dB@0dBFS 1kHz (A-wt)
SNR	> 90dB@0dBFS
Frequency Response	< ±3dB@20Hz~20kHz
Impedance	499Ω
Type	Unbalanced

8.3 Cable Specifications

Dante Audio Cable Length (Per network segment)	
Ethernet Cable	
Cat.5e/6	100m
Cat.6A/7	100m

9. ACRONYMS

ACRONYM	COMPLETE TERM
ADC	Analogue-to-Digital Converter
Cat.5e	Enhanced Category 5 cable
Cat.6	Category 6 cable
Cat.6A	Augmented Category 6 cable
Cat.7	Category 7 cable
DAC	Digital-to-Analogue Converter
dB	Decibel
GbE	Gigabit Ethernet
Gbps	Gigabits per second
IP	Internet Protocol
kHz	Kilohertz
LAN	Local Area Network
LED	Light-Emitting Diode
LPCM	Linear Pulse-Code Modulation
MAC	Media Access Control
MHz	Megahertz
PD	Powered Device
PoE	Power over Ethernet
PSE	Power Sourcing Equipment
SNR	Signal-to-Noise Ratio
THD+N	Total Harmonic Distortion plus Noise
USB	Universal Serial Bus
Ω	Ohm



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