



Introduction

The Atlona **OmniStream™ 238 (AT-OMNI-238)** receives audio streamed from OmniStream AV encoders, and delivers up to 16 audio outputs, configurable as eight stereo pairs or 16 mono channels. OmniStream features industry standard, AES67-compatible audio over IP streaming. Up to 16 channels of PCM audio can be received by the OmniStream 238. An audio stream can be routed to one or more unbalanced or balanced outputs, each with programmable volume control. The OmniStream 238 is ideal for feeding audio from HDMI sources into a whole-house audio system, as well as multiple audio zones in a commercial AV application.

The OmniStream 238 is also a Dante™ networked audio interface. Audinate Dante is a popular audio networking technology widely used in the commercial AV and professional audio industries. With Dante, the OmniStream 238 can be integrated with Dante-equipped DSPs and facility or enterprise-wide distributed audio systems for paging, background music, conferencing, and other applications.

Applications

- **Residential whole-house audio systems**
The OmniStream 238 can interface directly into multi-room amplifiers. It can be programmed into a control system to allow localized user volume control in separate areas throughout a residence.
- **Bars, restaurants, offices, and other small to mid-sized commercial environments**
The OmniStream 238 is ideal for multi-zone audio, as well as delivering background music throughout.
- **Large commercial environments such as convention centers, stadiums, and houses of worship**
The OmniStream 238 can be integrated with Dante-equipped DSPs and mixing consoles to distribute audio to designated areas or rooms.

Key Features

Receives up to 16 audio streams from OmniStream AV encoders

- Receives up to eight stereo or 16 mono audio streams over IP, and sends them to analog audio outputs.
- Provides convenient, easy-to-install, centralized networked audio-over-IP to analog audio conversion solution.

AES67-compatible audio over IP streaming

- Supports AES67 audio over Ethernet standard, to ensure full interoperability between OmniStream audio and video encoders, as well as other compatible audio systems.

Dante networked audio interface

- Integrate with Dante-equipped DSPs and systems.
- Interface directly into a facility or enterprise-wide distributed audio system for paging, background music, and more.

16 balanced or unbalanced analog audio outputs

- Configurable as stereo audio pairs or mono channels.
- Compatible with consumer or professional amplifiers and sound systems.

Dedicated, programmable volume and mute control for each audio output

- Enables independent output level settings to control volume in a specific room or zone.
- Also ideal for establishing proper gain structure in commercial audio systems.

IP control

- Ready for integration with Atlona Velocity™ and third-party control systems.
- Flexible options for volume and mute control through simple, convenient API access.

Configured and managed by AMS 2.0 (Atlona Management System)

- AMS is the essential network resource for centralized configuration and management of OmniStream AV systems throughout a facility or residence.
- Intuitive, flexible, and powerful GUI for routing audio between OmniStream encoders and the OmniStream 238.

Supports cascading up to eight units

- Integrated Gigabit Ethernet switch allows direct interconnection of multiple OmniStream 238 units.
- Simplifies integration for larger systems with just a single connection to the network.

Specifications

Audio	
Analog Output Channels	16, balanced or unbalanced with automatic muting on loss of input signal
Output Impedance	200 Ω balanced, 100 Ω unbalanced
SNR	< -90 dBu @ 0 dB gain
THD	< 0.05% at any gain, input signal 3 dB below maximum
Sampling Rate	AES67 - 48 kHz Dante - 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
Dynamic Range	> 110 dB
Maximum Output Level	+20 dB

Connectors	
ETHERNET ⁽¹⁾	2 - RJ45, 10/100/1000 Mbps
AUDIO OUTPUT	8 - Euroblock, 6-pin (eight stereo or 16 mono)
DC 24V	1 - 4-pin, locking

Environmental	
Operating Temperature	+32 to +122 °F 0 to +50 °C
Storage Temperature	-4 to +158 °F -20 to +70 °C
Operating Humidity (RH)	20% to 95%, non-condensing
Storage Humidity (RH)	10% to 90%, non-condensing

Chassis	
Dimensions (H x W x D)	1.75 in x 17.24 in x 10.00 in 44 mm x 438 mm x 254 mm
Weight	6.00 lbs 2.72 kg
Safety	CE, FCC, RoHS

Footnotes

(1) Maximum distance per hop 300 feet (100 meters), depending upon network configuration.

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