HPA-DAC8

Dante® Accessory Card

Features

- Dante® Digital Audio Platform
- 8-Channel Receiver
- Integrates with 8-Channel HPA Amplifiers

Dante® Overview

Audinate® created Dante®, an uncompressed, multi-channel digital media networking technology, with near-zero latency and synchronization. Hundreds of Dante® enabled products are available from many manufacturers, enabling you to mix devices from multiple manufacturers.

One cable does it all. Dante® does away with heavy, expensive analog or multicore cabling, replacing it with low-cost, easily-available CAT5e, CAT6, lightweight, and economical solution. Dante® integrates media and control for your 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. Because Dante® uses logical routes instead of physical point-to-point connections, the network can be expanded and reconfigured at any time with just a few mouse clicks.

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® networks is easy, even the most complex networks can be set up and configured quickly and easily with Dante®, making system integration simple. Dante® automatically handles the technical complexities.

Signal routing and system configuration with Dante® is fast, simple, and incredibly flexible. Dante® Controller is a powerful software application that manages devices on the network. Setting up a Dante® network is typically just a matter of plugging devices into an Ethernet switch and connecting a computer to the network. All Dante® devices are automatically discovered and displayed in Dante® Controller, so a system can be up and running in seconds.

Visit www.audinate.com for details or to learn more on using Dante®. There are many Dante® guides available in the industry. AtlasIED offers one in the BlueBridge® DSP section of atlasied.com.

General Description

The HPA-DAC8 accessory card is designed to work in conjunction with HPA Series 8-channel amplifiers. The HPA-DAC8 is an 8-input Dante® receiver that features digital audio transportation over standard IP networks.

The HPA Series 8-channel amplifiers come standard with eight balanced line inputs and an accessory slot to fit the HPA-DAC8. Dante® Input 1, and the analog balanced input levels are isolated from each other and are electronically summed together forming a mixed output. Both the Dante® input and the analog balanced input levels to the amplifier channel are controlled by the Ch-1 level control. Channel 2 thru 8 inputs are configured the same as Channel 1.

Applications

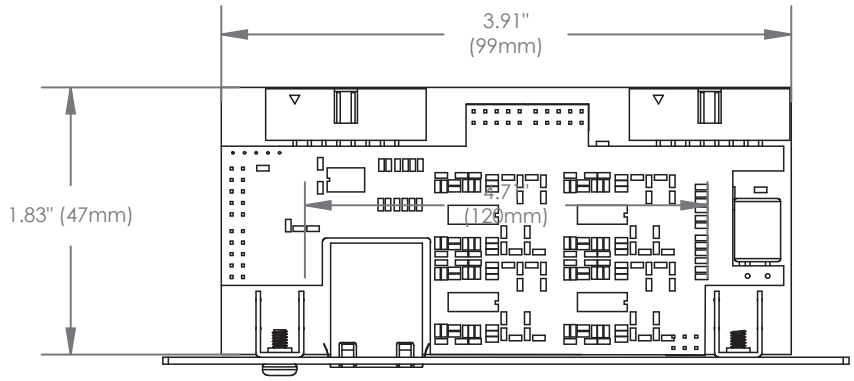
The AtlasIED high power (8 x 300W) amplifier, "HPA" Series, is designed for use in either commercial 25V / 70V / 100V distributed systems or low impedance 8 or 4 ohm applications that require amplifiers to handle multiple impedance loads. The HPA2408 is compact and lightweight in comparison to other models delivering similar performance.

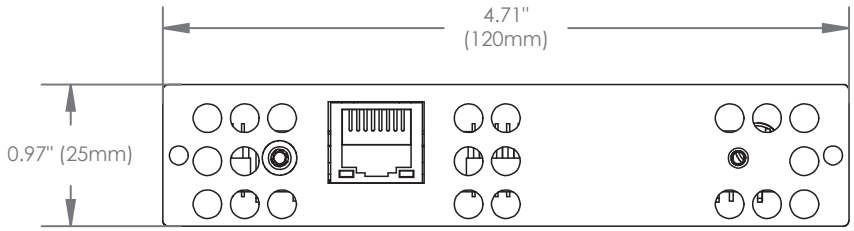
When installed, the HPA-DAC8 converts the HPA Series amplifier into a digital audio network amplifier and makes the HPA Series amplifier the "go to" solution for a wide variety of applications including:

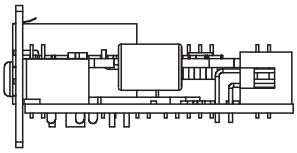
- Restaurants
- Government facilities
- Schools
- Industrial facilities
- House of worship

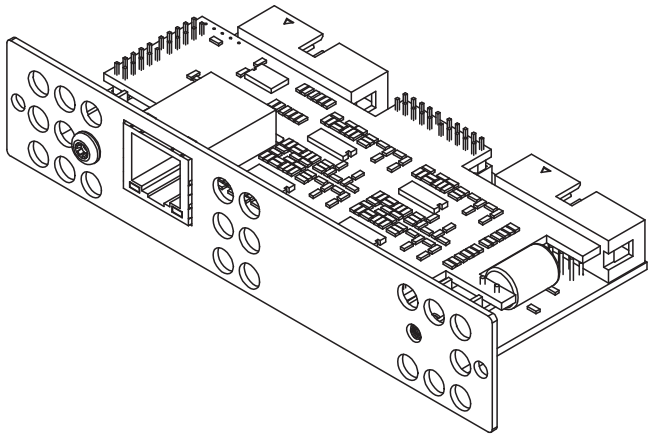
System	
Type	8 Channel Dante® Network Audio Receiver for HPA Series Amplifier
Capacities	
Dante® Audio Inputs	8
Dante® Audio Outputs	None , 8 Analog Output
Connectors	
Ethernet	RJ-45, Qty 1
Amplifier Interface	16 Pin HPA Amplifier Connections, Qty 2
Power	Provided by HPA2408 Accessory Port
Controls and Indicators	
Indicators	Ethernet Network Activity Green / Yellow LED
Electrical	
Dante® Transmission Speed	100Mbps
Frequency Response	20Hz – 20kHz +/- 1dB
THD	0.06% @ 1Khz
Maximum Input Level	13dBu, 3.5V
Noise	83dB
Mechanical	
Color	Black
Material	Steel
Product Dimensions (HxWxD)	0.97" x 4.7" x 2.5" (25mm x 119mm x 63mm)
Shipping Dimensions (HxWxD)	2.75" x 5.5" x 5.5" (70mm x 138mm x 138mm)
Net Weight	0.15 lbs. (0.07kg)
Shipping Weight	0.325 lbs. (0.15kg)
Warranty Coverage	
Warranty Period	5 Years

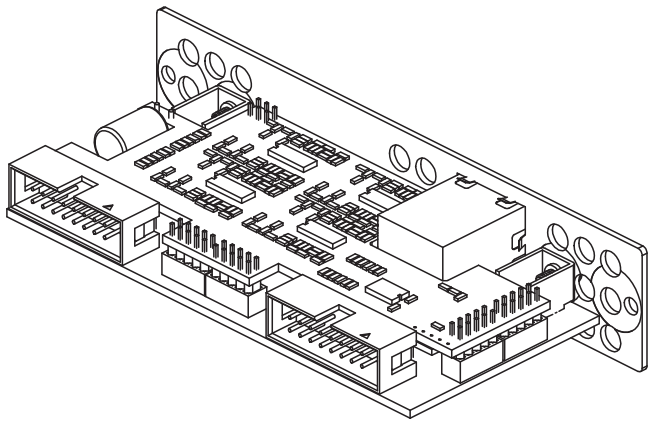
Dimensional Drawings











Architect & Engineer Specifications

The AtlasIED HPA-DAC8 shall be an optional 8 channel Audinate® Dante® digital audio receiver accessory card for the AtlasIED HPA-2408 power amplifier. The HPA-DAC8 shall install into the HPA-2408 rear panel accessory card slot. The HPA-DAC8 shall be powered by the HPA-2408 amplifier. The HPA-DAC8 shall connect to standard IP networks via a RJ45 connector. The HPA-DAC8 shall be network discovered by Audinate® Dante® Controller software. The digital audio shall be routed using Audinate® Dante® Controller software. The HPA-DAC8 shall have 8 Dante® receiver subscriptions and 8 analog balanced outputs. Once installed, the HPA-DAC8 shall provide Dante® digital audio signals 1 through 8 to sum with the HPA analog 1 through 8 inputs pre-front panel volume control. The HPA-2408 front panel volume controls shall be master channel volume controls for both analog and Dante® digital summed inputs. The HPA-DAC8 shall have an Ethernet power indicator and a network activity indicator. The HPA-DAC8 shall have a 0dBFS reference level of 13dBu. The HPA-DAC8 shall have a noise floor of 83dB. The HPA-DAC8 frequency response shall be 20Hz – 20KHz +/-dB. The HPA-DAC8 panel shall be steel painted black. Dimensions shall be 0.97" x 4.7" x 2.5" (25mm x 119mm x 63mm). The HPA-DAC8 shall be sold separately. The product shall be AtlasIED HPA-DAC8.