



DAA01002 Class D Audio Amplifier Module

General Description

The DAA01002 is a completely self-contained 2-Channel Class D Amplifier capable of driving 100 Watts per Channel into an 8-ohm load.

The output power stage utilizes a half bridge topology for each channel. The two 100W channels may be reconfigured to a full bridge output stage for applications requiring a single channel of 200W into an 8-ohm load.

The Amplifier Module consists of a high modulation index Class D Controller, a high efficiency power output stage, and a high efficiency output filter optimized for EMI performance.

The integrated peripherals include I²S digital and stereo analog inputs, eliminating the need for external interface circuits and converters.

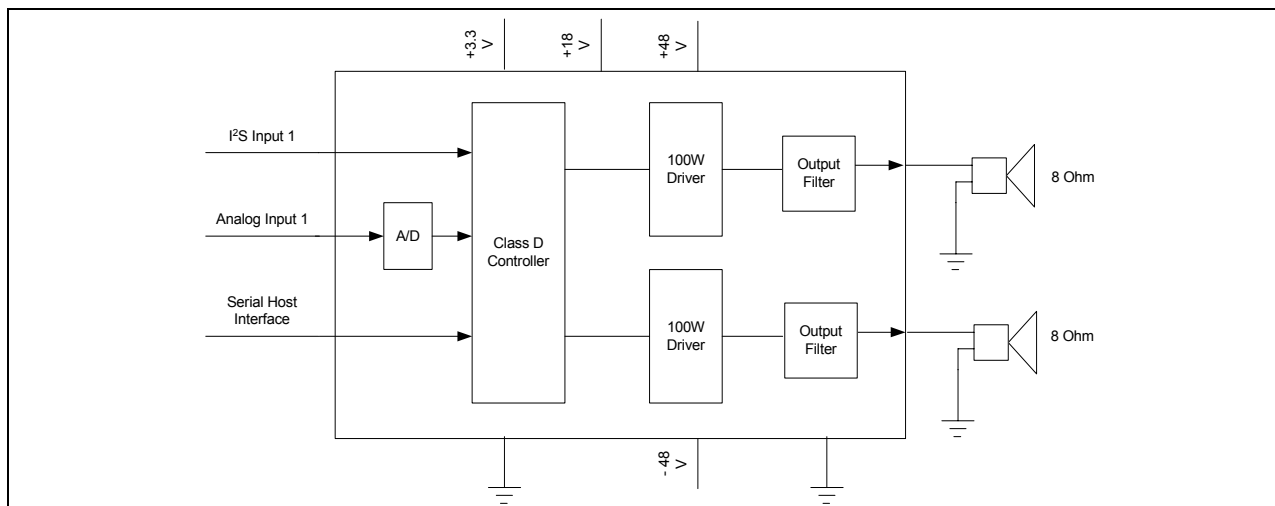
An internal Audio Signal Processor provides user-configured audio functions such as Equalization, Volume, Tone Control, and Compression-Limiting.

Features

- **2 Channel Class D Amplifier**
 - 2 x 100W into 8 ohms
 - 1 x 200W into 8 ohms
- **Digital Class D Controller**
 - >90% Efficiency
 - Parametric EQ per Channel
 - Volume and Tone Control
 - Dynamic Range Compression (DRC)
- **Integrated Peripherals**
 - Stereo Analog
 - I²S Digital Input
- **Total Amplifier Protection**
 - Short Circuit, Thermal, and Over-Current with Fault Indicator

Applications

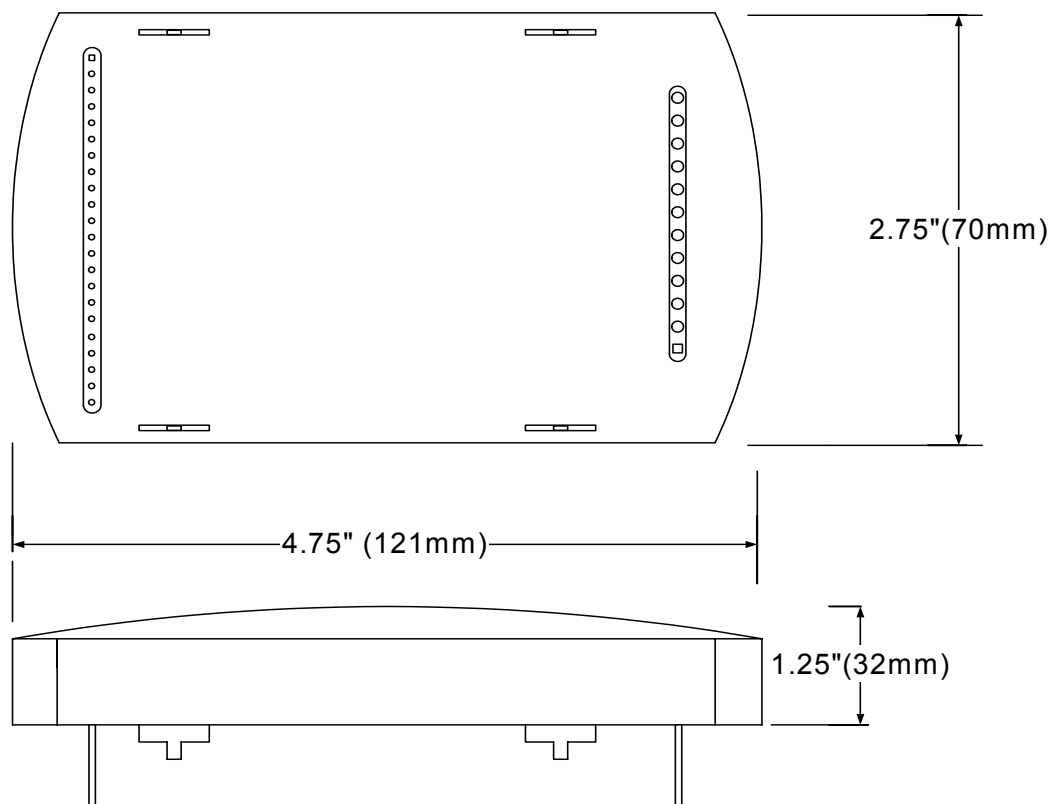
- AV Receiver
- Home Theater
- DVD Receivers
- Powered Speakers
- Stereo, 2.1, 2.2 Systems
- Paired for 4.1, 5.1, 6.1 & 7.1 Systems



D2 Audio Corporation
7600-B Capital of Texas Hwy North
Suite 130
Austin, TX 78731

Phone 512-343-9301
Fax 512-343-9316
Web www.d2audio.com

1 Mechanical



Disclaimer

This document contains Advanced product information for a new product and is subject to change. The D2 Audio Corporation may make changes at any time without notice

Trademarks

D2, the D2 audio logo, and D2A are trademarks of D2 Audio Corporation. Other product names used in this publication are for identification purposes only and may be trademarks of their respective companies.

© 2002 D2 Audio Corporation All rights reserved