



# DAA00504 Class D Audio Amplifier Module

**DAA-00504-01 Advanced Information**

## General Description

The DAA00504 is a completely self-contained 4-Channel Class D Amplifier capable of driving 50Watts per Channel into an 8-ohm load. For higher power applications, output channels can be configured to provide 100 Watts per channel into a 4-ohm load.

The Amplifier Module consists of a high modulation index Class D Controller, a high efficiency power output stage, and a high performance output filter optimized for EMI performance. The output power stage utilizes a bridged topology for each channel to provide the best power-to-supply ratio.

The Module supports a variety of digital and analog inputs, eliminating the need for external interface circuits and converters.

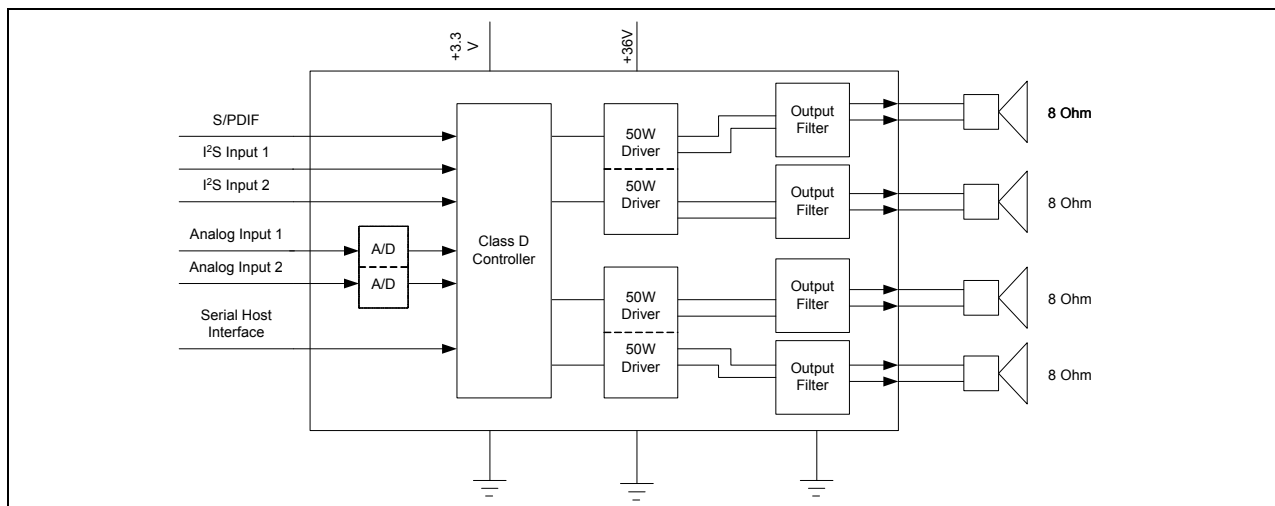
Optimum performance is assured through the use of an embedded Sample Rate Converter (SRC) which automatically detects the digital input sample rate and converts it to the internal DSP sample rate. An internal Audio Signal Processor provides user-configured audio functions such as Equalization, Volume, Tone Control, and Bass Management.

## Features

- **4 Channel Class D Amplifier**
  - **4 x 50W into 8 ohms**
  - **2 x 100W into 4 ohms**
- **Digital Class D Controller**
  - **> 90% Efficiency**
  - **Parametric EQ per Channel**
  - **Volume and Tone Control**
  - **Soft Mute**
- **Integrated Peripherals**
  - **Sample Rate Converter**
  - **Stereo Analog, Dual I<sup>2</sup>S, S/PDIF**
- **Total Amplifier Protection**
  - **Short Circuit, Thermal, and Over-Current with Fault Indicator**

## Applications

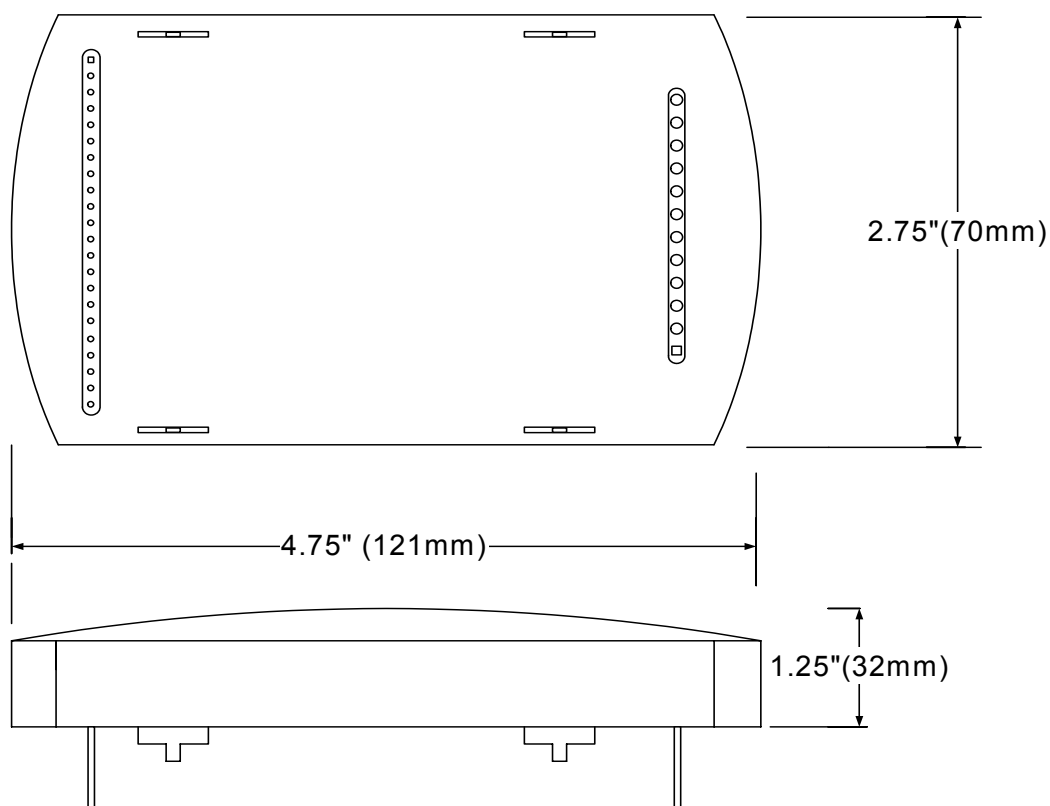
- AV Receiver
- Home Theater
- DVD Receivers
- Powered Speakers
- Stereo, 2.1, 2.2 Systems
- Paired for 4.1, 5.1, 6.1 & 7.1 Systems



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