

BN 2268141

Mini Digital Amplifier Board for Arduino™

GB Operating instructions

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Delivery contents

- Mini Digital Amplifier Board for Arduino™

Description

This 2-channel PAM8403 audio amplifier is a 2x 3 W, class D audio amplifier. It provides high-quality sound reproduction with compact dimensions and can be used in a wide range of applications.

Product features

- PAM8403 Class-D amplifier IC
- Output power: 3W (4 ohms / 5 V)
- Signal-to-noise ratio: 90 dB
- Efficiency > 90%
- Integrated filtering of the audio signal (LC network)
- High amplification
- Integrated short-circuit protection
- Integrated undervoltage protection
- Integrated standby switch
- 2x 2 mm holes for mounting
- Arduino™ compatible

Hardware

The LED board has 3 pin contacts for the connection.

The following overview shows the functions of the soldered pins:

R+	"Right" + Loudspeaker connection
R-	"Right" - Loudspeaker connection

L+	"Left" + Loudspeaker connection
L-	"Left" - Loudspeaker connection
GND	Ground connection for power supply
+5V	Power supply (2.5 - 5.5 V/DC)
SW	Switch (standby/mute)
GND	Switch (standby/mute)
LIN	"Left" + audio signal input
GND	Audio signal ground
RIN	"Right" + audio signal input

Important:

The earth of the left and right loudspeaker connections cannot be bridged!

Note:

To avoid interference on the output signal, only use shielded cables for the audio inputs!

If the audio source and amplifier are in close proximity (<10 cm), an unshielded cable may also be used.

Disposal



Electronic devices are recyclable waste and must not be placed in household waste. At the end of its service life, dispose of the product in accordance with the applicable regulatory guidelines.

You thus fulfil your statutory obligations and contribute to protection of the environment.

Specifications

Power supply	2.5 - 5.5 V/DC
Output power	2x 3 W (4 Ω/5 V)
Power	3 W
Amplification	24 dB
Signal-to-noise ratio.....	90 dB
Efficiency	> 90%
Amplifier IC	PAM8403
Dimensions (W x H x D)	15.5 x 4 x 24 mm
Weight	1 g

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