PAM8610 Mini 10W+10W Stereo Audio Power Amplifier Board Module w/ Volume Control

This PAM8610 module is a 10W, class-D stereo audio amplifier. It offers low THD+N, allowing it to achieve high-quality sound reproduction, all in a compact form factor. It can operate from a 9V or 12V power supply or battery, and includes power switch and mute switch connectors, a volume control potentiometer and speaker connector screw terminals for ease of use.

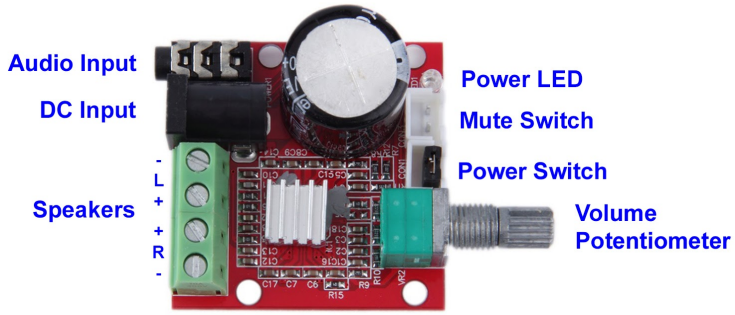
It can be used in any DIY design requiring a miniature audio amplifier, especially portable and mobile applications operating on battery power.

Features:

- Operates on any voltage from 7.5V to 15V, conveniently powered with a 9V or 12V power supply or battery
- Output: 10W + 10W (L + R) output power into an 8Ω speaker load and 12V power supply
- Screw terminals for easy speaker connection - no soldering needed
- Noise canceling circuit built into the amplifier board
- Power on / off without popping noise
- Includes power switch and mute switch connectors (wire external SPST switches to these connectors to provide remote power on/off and mute) and volume control potentiometer
- Module has short-circuit current protection, under-voltage lockout and over-temperature protection (shuts down at an internal temperature of 140C +/- 15C)

Specifications:

- Audio input connector: 3.5mm stereo headphone jack
- Output power: 10W + 10 W (8Ω)
- Frequency response: 20Hz to 50KHz
- Amplifier class: D, 90% efficiency
- Operating voltage: 7.5 - 15V DC
- Power connector: 5.5mm / 2.1mm barrel
- Recommended supply voltage: 12V, the connector center PIN is +
- Quiescent Current: 20mA
- Speaker Load: 4-8 Ohms, 8 Ohms recommended, screw terminal connectors
- Size: 40 x 40 x 22 mm (L x W x H); 55 x 40 x 22 including volume control knob
- Net weight: 24g



Note:

Left and right channel "negative" connections should not be connected together, otherwise it may damage the module. Speakers (load) should be connected before power is applied to the module.
The heatsink supplied with the amplifier should be attached to the amplifier IC prior to use (see photo above). Simply remove the backing from the double-stick tape and press onto the IC.

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P/N EM-AUDIO-0004