

AUDIO AMP  
WITH SPEAKER FOR ARDUINO



The keystudio power amplifier module integrates an adjustable potentiometer, a speaker, and an audio amplifier chip.

It can amplify the small audio signal output, about 8.5 times magnification, and can play it out via a small power speaker.

It can also be used to play music, or used as an external sound amplification device for some music playback devices.

Pay close attention that should adjust the sound volume to a minimum before use, then slowly increase the speaker volume, preventing from burning the speaker.

When testing, after connected to microcontroller, input square waves of different frequency and different duration at the signal end, so that can edit the sound produced from the speaker.

At the same time, it is compatible with various MCU control boards, such as arduino series microcontrollers. When using it, we can stack a sensor expansion board on the MCU. The wiring is pretty simple. What's more, the module comes with a positioning hole with a diameter of 3mm, for fixing to other equipment.

## 2. Parameters

③Working voltage: DC 5V

③Working current:  $\geq 500\text{mA}$

③Maximum power: 2W

③Working temperature: 0-40°C

③Size: 49\*31\*15.6MM

③Speaker power: 0.15W

③Speaker sound: 80db

Amplification chip: SC8002B