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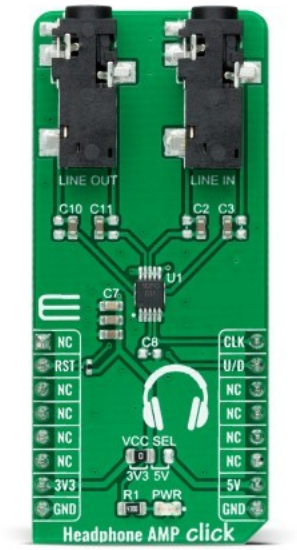
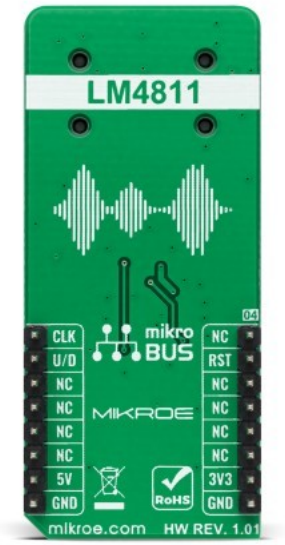
# Headphone AMP Click




PID: MIKROE-4766

**Headphone AMP Click** is a compact add-on board that contains a stereo headphone amplifier. This board features the LM4811, Boomer® audio power amplifier capable of delivering 105mW per channel with digital volume control from Texas Instruments. The Boomer® amplifiers are specifically designed to provide high-quality output power with a minimal amount of external components. Since the LM4811 does not require bootstrap capacitors or snubber networks, it is optimally suited for low-power portable systems. It features a digital volume control that sets the amplifier's gain from +12dB to −33dB in 16 discrete steps, in addition to a micro-power consumption Shutdown mode. This Click board™ is suitable for portable electronics and audio systems, representing a perfect solution for remote, headphone audio-volume control applications.

Headphone AMP Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

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# Specifications

| | |
|---|---|
| Type | Signal Processing |
| Applications | Can be used for portable electronics and audio systems, representing a perfect solution for remote, headphone audio-volume control applications |
| On-board modules | LM4811 - stereo, analog input headphone amplifier with digital volume control from Texas Instruments |
| Key Features | Low power consumption, digital volume control, “Click and Pop” suppression, high-quality output power, no bootstrap capacitors, Shutdown feature, and more |
| Interface | GPIO,PWM |
| ClickID | No |
| Compatibility | mikroBUS |
| Click board size | L (57.15 x 25.4 mm) |
| Input Voltage | 3.3V or 5V |

## Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

## Downloads

Headphone AMP click example on Libstock

Headphone AMP click schematic

LM4811 datasheet

Headphone AMP click 2D and 3D files