

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.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
 ISO 14001: 2015 certification of environmental management system.
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

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](#)

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