

AudioAMP 9 Click



PID: MIKROE-5595

AudioAMP 9 Click is a compact add-on board reproducing input audio signals with desired volume and power levels at sound-producing output elements. This board features the [PAM8124](#), a 10W efficient, Class-D audio power amplifier from [Diodes Incorporated](#) for driving stereo speakers in a single-ended configuration. This GPIO configurable audio amplifier can drive 8Ω stereo speakers and provides configurable features such as Mute, Shutdown, and selectable gain of the amplifier. It supports external supply voltage from 12V to 24V, allowing it to be used in many applications. Besides, it is equipped with protection features, allowing a reliable operation. This Click board™ is suited for various types of consumer audio equipment applications.

AudioAMP 9 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	Amplifier
Applications	Can be used for various types of consumer audio equipment applications
On-board modules	PAM8124 - stereo class-D audio power amplifier from Diodes Incorporated
Key Features	10W per channel from 24V external supply, single-ended configuration, high efficiency, GPIO configurable, can drive 8Ω stereo speakers, configurable features such as Mute, Shutdown, and selectable gain of the amplifier, protection features, and more
Interface	GPIO
ClickID	Yes
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

[ClickID](#)

Downloads

[AudioAMP 9 click example on Libstock](#)

[PAM8124 datasheet](#)

[AudioAMP 9 click 2D and 3D files](#)

[AudioAMP 9 click schematic](#)

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).