

AudioAMP 11 Click



PID: MIKROE-5584

AudioAMP 11 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 NAU8224, a high-performance stereo Class-D audio amplifier from Nuvoton Technology. This flexible I2C configurable audio amplifier can drive a 4Ω load with up to 3.1W output power. In addition to the possibility of digital control (using only one enable pin), the NAU8224 also has many useful gain settings from 6dB to 24dB. 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 11 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 such as personal media players, portable MP3 players, and more
On-board modules	NAU8224 - audio amplifier from Nuvoton Technology
Key Features	Powerful stereo audio amplifier, Class-D, selectable gain and volume, 4Ω load drive, high efficiency and performance, I2C interface, low power consumption, click-and-pop suppression, Shutdown mode, and more
Interface	I2C
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

[AudioAmp 11 click example on Libstock](#)
[AudioAmp 11 click schematic](#)
[NAU8224 datasheet](#)
[AudioAmp 11 click 2D and 3D files](#)

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