MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia VAT: SR105917343 Registration No. 20490918

Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com

www.mikroe.com

## **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  $4\Omega$  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  $^{\text{TM}}$  is suited for various types of consumer audio equipment applications.

AudioAMP 11 Click is supported by a  $\underline{\mathsf{mikroSDK}}$  compliant library, which includes functions that simplify software development. This  $\underline{\mathsf{Click}}$  board $^{\mathsf{TM}}$  comes as a fully tested product, ready to be used on a system equipped with the  $\underline{\mathsf{mikroBUS}}^{\mathsf{TM}}$  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.





health and safety management system.



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## **Specifications**

Туре	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, $4\Omega$ 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™

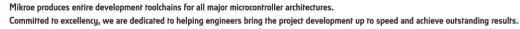
## **Downloads**

AudioAmp 11 click example on Libstock

AudioAmp 11 click schematic

NAU8224 datasheet

AudioAmp 11 click 2D and 3D files







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