

## Audio DAC Click



PID: MIKROE-5587

**Audio DAC Click** is a compact add-on board perfect for upgrading your audio equipment. This board features the [PCM5142](#), a 32-bit 384kHz audio stereo DAC with the [DIR9001](#) digital audio receiver from [Texas Instruments](#). The DIR9001 can receive 24-bit/96kHz signals at the highest via S/PDIF optical cable and complies with various digital audio standards, like IEC60958-3, JEITA CPR-1205, AES3, and EBUtech3250. The DIR9001's output is then processed via a stereo audio DAC, the PCM5142, with the latest generation of TI's advanced segment-DAC architecture to achieve excellent dynamic performance, detailed heights, and an exceptionally good sound stage. This Click board™ is suitable for portable electronics and audio systems, representing a perfect solution for multimedia systems, satellite radio, CD and DVD players, and more.

Audio DAC 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	Speakers
Applications	Can be used for portable electronics and audio systems, such as multimedia systems, satellite radio, CD and DVD players, and more
On-board modules	PCM5142 - 32-bit 384kHz audio stereo DAC from Texas Instruments DIR9001 - digital audio receiver from Texas Instruments
Key Features	24-bit/96kHz signals at the highest via S/PDIF optical cable, complies with various digital audio standards, latest generation of TI's advanced segment-DAC architecture, excellent dynamic performance, detailed heights, and an exceptionally good sound stage, soft-mute, and more
Interface	I2C
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

[Audio DAC click example on Libstock](#)

[DIR9001 datasheet](#)

[PCM5142 datasheet](#)

[Audio DAC click schematic](#)

[Audio DAC click 2D and 3D files](#)

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