

DAC 12 Click



PID: MIKROE-5097

DAC 12 Click is a compact add-on board that contains a highly accurate digital-to-analog converter. This board features the [DAC60508](#), a general-purpose octal 12-bit analog voltage-output DAC from [Texas Instruments](#). It includes a 2.5V, 5ppm/°C internal reference, eliminating the need for an external precision reference in most applications, and supports the SPI serial interface, which operates at clock rates up to 40MHz. A user interface-selectable gain configuration provides full-scale output voltages of 1.25V, 2.5V, or 5 V. This Click board™ represents an excellent choice for digital gain and offset adjustment applications, programmable voltage, and current sources, programmable reference, and many more.

DAC 12 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	DAC
Applications	Can be used for digital gain and offset adjustment applications, programmable voltage, and current sources, programmable reference, and many more
On-board modules	DAC60508 - octal 12-bit analog voltage-output DAC from Texas Instruments
Key Features	Low power consumption, high performance, integrated 2.5V internal reference, high precision, flexible output configuration, SPI compatible interface, and more
Interface	SPI
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[DAC 12 click example on Libstock](#)

[DAC60508 datasheet](#)

[DAC 12 click 2D and 3D files](#)

[DAC 12 click schematic](#)

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