

DAC 9 Click



PID: MIKROE-4332

DAC 9 Click is a compact add-on board that contains a fully-featured, highly accurate digital-to-analog converter. This board features the DAC80501, a 16-bit voltage-output digital-to-analog converter with precision internal reference from Texas Instruments. It supports both I2C and SPI serial interface and offers a linearity of < 1 LSB. It also includes a 2.5V internal reference, giving full-scale output voltage ranges of 1.25V, 2.5V, or 5V, incorporate a Power-On Reset function, consume a low current of 1mA, and include a Power-Down feature that reduces current consumption to typically 15µA at 5V. This Click board™ is suitable for applications such as offset and gain control, VCO tuning, programmable reference, and more.

DAC 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	DAC
Applications	Can be used for applications such as offset and gain control, VCO tuning, programmable reference, and more.
On-board modules	DAC 9 Click is based on the DAC80501, a 16-bit voltage-output digital-to-analog converter with precision internal reference from Texas Instruments.
Key Features	Low power consumption, low glitch energy, buffered output voltage range, internal/external voltage reference, selectable serial interface, high accuracy, and more.
Interface	I2C,SPI
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

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

[DAC80501 datasheet](#)

[DAC 9 click schematic](#)

[DAC 9 click example on Libstock](#)

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