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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.

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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
ClickID	No
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