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DAC 8 Click

PID: MIKROE-4229

DAC 8 Click is a compact add-on board that contains a fully-featured, general-purpose voltage-output digital-to-analog converter. This board features the DAC8554IPWR, a 16-bit QUAD channel voltage-output digital to analog converter from Texas Instruments. It offers the low-power operation, good linearity, exceptionally low glitch, and supports a 3-wire SPI serial interface with a clock rate up to 50MHz. Requires an external reference voltage provided by I2C compatible DAC60501MDGSR to set the output range of each DAC channel. It has many features that make it attractive for various applications such as battery-operated equipment, digital gain and offset adjustment, programmable voltage and current sources, and many more.

DAC 8 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).

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Specifications

Type	DAC
Applications	Can be used in battery-operated equipment, digital gain and offset adjustment, programmable voltage and current sources, and many more.
On-board modules	DAC 8 Click is based on the DAC8554IPWR, a 16-bit QUAD channel, ultra-low glitch, voltage-output digital to analog converter from Texas Instruments.
Key Features	Low power consumption, high precission, ultra-low glitch, rail-to-rail voltage output, accuracy, stability, and more.
Interface	GPIO,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
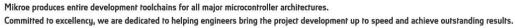
Click boards™

Downloads

DAC 8 click 2D and 3D files

DAC8554 datasheet

DAC60501 datasheet

DAC 8 click example on Libstock

DAC 8 click schematic

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