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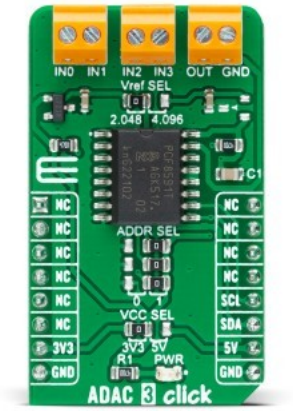
ADAC 3 Click



PID: MIKROE-5198

ADAC 3 Click is a compact add-on board representing the ADC/DAC combo solution. This board features the PCF8591, a low-power 8-bit CMOS data acquisition device with four analog inputs, one analog output, and a serial I2C interface from NXP Semiconductors. The PCF8591 includes analog input multiplexing, an on-chip track and hold function and 8-bit analog-to-digital conversion alongside an 8-bit digital-to-analog conversion. In addition, the user is given the option to select the PCF8591 reference voltage value, choosing between 2,048 and 4,096V. This Click board™ is suitable for various control, monitoring, or measurement applications such as supply monitoring, reference setting, analog control loops, and more.

ADAC 3 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	ADC-DAC
Applications	Can be used for various control, monitoring, or measurement applications
On-board modules	PCF8591 - low-power CMOS data acquisition device from NXP Semiconductors
Key Features	Low power consumption, combo solution with four analog inputs and one analog output, 8-bit successive approximation A/D conversion, I2C serial interface, analog inputs configurable as single ended or differential inputs, on-chip track and hold circuit, and more
Interface	I2C
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

ADAC 3 click example on Libstock

MAX6106 datasheet

PCF8591 datasheet

MAX6104 datasheet

ADAC 3 click schematic