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ADAC 2 Click

PID: MIKROE-5475

ADAC 2 Click is a compact add-on board providing the ADC/DAC combo solution. This board features the MAX22000, a 24-bit ADC, an 18-bit DAC, and an analog front-end (AFE) from Analog Devices. It allows users to create a software-configurable (SPI interface) input/output that supports all standard industrial analog interfaces: -10V to +10V analog input or output, -20mA to +20mA analog input or output, as well as an RTD or thermocouple input for temperature measurement. This Click board™ is designed to support industrial applications such as programmable logic controllers (PLCs), programmable automation controllers (PACs), and process control applications that require configurable analog I/O.

ADAC 2 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 industrial applications such as programmable logic controllers (PLCs), programmable automation controllers (PACs), and process control applications
On-board modules	MAX22000 - industrial-grade, software-configurable analog input/output solution from Analog Devices
Key Features	High accuracy, flexibility, software-configurable for voltage and current mode, high resolution, RTD and thermocouple measurements, SPI interface, additional GPIOs, protection features, and more
Interface	SPI
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

ADAC 2 click example on Libstock

ADAC 2 click 2D and 3D files

MAX22000 datasheet

ADAC 2 click schematic