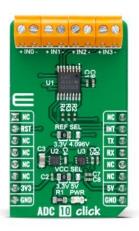


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ADC 10 Click





PID: MIKROE-4488

ADC 10 Click is a compact add-on board that contains a high-performance data converter. This board features the ADS122U04, a 24-bit precision $\Delta\Sigma$ analog-to-digital converter with UART compatible interface from Texas Instruments. It features two differential or four single-ended inputs through a flexible input multiplexer, a programmable gain amplifier up to 128, two programmable excitation current sources, a voltage reference, an oscillator, and a temperature sensor. The ADS122U04 offers conversions at data rates up to 2000 samples-per-second with single-cycle settling. This Click board™ is suitable for measuring small sensor signals, such as resistance temperature detectors (RTDs), thermocouples, thermistors, and resistive bridge sensors.

ADC 10 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.





health and safety management system.



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Specifications

Туре	ADC
Applications	Can be used for measuring small sensor signals, such as resistance temperature detectors (RTDs), thermocouples, thermistors, and resistive bridge sensors.
On-board modules	ADS122U04 - 24-bit precision ΔΣ analog-to-digital converter with UART compatible interface from Texas Instruments MCP1501 - high-precision voltage reference from Microchip LT6656 - high-precision voltage reference from Analog Devices
Key Features	Low power consumption, programmable gain and data rates, two differential or four single- ended inputs, internal and external voltage references, internal temperature sensor, and more
Interface	UART
ClickID	No
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™

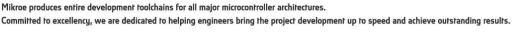
Downloads

ADC 10 click 2D and 3D files

ADC 10 click schematic

ADS122U04 datasheet

ADC 10 click example on Libstock







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