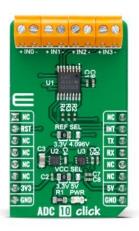


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ADC 10 Click





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 $^{\text{TM}}$ 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 $\underline{\mathsf{mikroSDK}}$ compliant library, which includes functions that simplify software development. This $\underline{\mathsf{Click}}$ board $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$ comes as a fully tested product, ready to be used on a system equipped with the $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$ 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.





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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 $\Delta\Sigma$ 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
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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