

## ISO ADC 3 Click



PID: MIKROE-4383

ISO ADC 3 Click is a compact add-on board that contains a single-channel precision isolation amplifier. This board features the AMC1100, a precision isolation amplifier with an output separated from the input circuitry by a silicon dioxide barrier that is highly resistant to magnetic interference from Texas Instruments. This barrier is certified to provide galvanic isolation of up to 4250V<sub>peak</sub>. The AMC1100 offers several features as linearity, high input common-mode rejection, and low DC errors and drift. These features make the AMC1100 a high-performance isolation amplifier suitable for accurate current and voltage measurement in energy-metering applications and for industrial applications where users and subsystems must be protected from high voltage potentials.

ISO ADC 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.

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).

## Specifications

Type	ADC,Isolators
Applications	Can be used for accurate current and voltage measurement in energy-metering applications and for industrial applications where users and subsystems must be protected from high voltage potentials.
On-board modules	ISO ADC 3 Click is based on the AMC1100, a precision isolation amplifier with an output separated from the input circuitry by a silicon dioxide barrier that is highly resistant to magnetic interference from Texas Instruments.
Key Features	Fully-differential isolation amplifier, very low nonlinearity, low offset error and noise, highly resistant to magnetic interference, high accuracy, 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

[ISO ADC 3 click example on Libstock](#)

[MCP3221 datasheet](#)

[AMC1100 datasheet](#)

[ISO ADC 3 click 2D and 3D files](#)

[ISO ADC 3 click schematic](#)

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