

ISO ADC 2 Click



PID: MIKROE-4166

ISO ADC 2 Click is a compact add-on board that represents a completely isolated 12-bit, 300 kSPS data acquisition system. This board features the [AD7091R](#), successive-approximation analog-to-digital converter (ADC) from [Analog Devices](#). It uses the 3-wire SPI serial interface for data communication, achieving up to 1 MSPS throughput rate. This Click board™ also features the [ADuM5401](#), isolated DC-DC converter used to isolate the logic signals, power, and feedback paths in the DC-DC converter resulting in total isolation solution. Many features such as high throughput rate with ultralow power consumption, wide input bandwidth, accuracy, and speed make it an ideal choice for a wide variety of industrial measurements, data acquisition systems, monitoring functions, and many more.

ISO ADC 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.

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 a wide variety of industrial measurements, data acquisition systems, monitoring functions, and many more.
On-board modules	ISO ADC 2 Click is based on the AD7091R, a 12-bit successive-approximation analog-to-digital converter (ADC) with an isolated DC-DC converter, from Analog Devices.
Key Features	Low power consumption, fast throughput rate, wide input bandwidth, and more.
Interface	GPIO, SPI
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 2 click example on Libstock](#)
[ISO ADC 2 click 2D and 3D files](#)
[ISO ADC 2 click schematic](#)
[AD7091R datasheet](#)
[AD8616 datasheet](#)
[ADUM5401 datasheet](#)

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