

ISO ADC 6 Click



PID: MIKROE-5901

ISO ADC 6 Click is a compact add-on board that contains an eight-channel isolated ADC. This board features the [AD7124-8](#), an 8-channel, low noise, low power, 24-bit, sigma-delta ADC from [Analog Devices](#). The ADC has a programmable gain array (PGA) that allows gains of 1, 2, 4, 8, 16, 32, 64, and 128. Additionally, the ADC contains a 2.5V reference, which can be used with reference buffers, along with the externally applied references. The host MCU is isolated from the ADC by the [ADuM341E](#), a 5kVrms quad digital isolator from Analog Devices. This Click board™ makes the perfect solution for the development of a wide variety of industrial measurements, data acquisition systems, monitoring functions, and more.

ISO ADC 6 Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the [mikroBUS™](#) standard. It comes with the [mikroSDK](#) open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this [Click board™](#) apart is the groundbreaking [ClickID](#) feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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
Applications	Can be used for the development of a wide variety of industrial measurements, data acquisition systems, monitoring functions, and more
On-board modules	AD7124-8 - 24-bit sigma-delta ADC from Analog Devices ADuM341E - 5kVrms quad digital isolator from Analog Devices
Key Features	Full SPI serial interface isolation, 8 ADC channels, wide output data rate, low RMS noise, three power modes, rail-to-rail analog inputs, diagnostic functions, crosspoint multiplexed analog inputs, 8 differential/15 pseudo differential inputs, programmable gain, and more
Interface	SPI
ClickID	Yes
Compatibility	mikroBUS™
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V, External

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

[ClickID](#)

Downloads

[ADC7124-8 datasheet](#)

[ADuM341E datasheet](#)

[ISO ADC 6 click example on Libstock](#)

[ISO ADC 6 click 2D and 3D files](#)

[ISO ADC 6 Click schematic](#)

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