

ISO ADC 5 Click



PID: MIKROE-4758

ISO ADC 5 Click is a compact add-on board that contains quad-channel isolated ADC with field supply. This board features the MAX22530, galvanically isolated, 4-channel, multiplexed, 12-bit, analog-to-digital converter (ADC), providing 5kVRMS isolation from Maxim Integrated. The ADC and all field-side circuits are powered by an integrated, isolated DC-DC converter that can verify field-side functionality even when there is no input signal or other field-side supply. The 12-bit ADC core has a sample rate of typically 20ksp/s per channel, where ADC data is available through the SPI interface. This Click board™ is ideal for high-density, multi-range, group-isolated, binary-input modules and provides a complete solution to any system requiring monitoring inputs without a separate isolated power supply.

ISO ADC 5 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
Applications	Can be used for high-density, multi-range, group-isolated, binary-input modules and provides a complete solution to any system requiring monitoring inputs without a separate isolated power supply
On-board modules	MAX22530 - 12-bit, 4-channel ADC with a 5kVRMS isolated SPI interface from Maxim Integrated
Key Features	Withstands 5kVRMS isolation for 60s, field-side self-powered with integrated DC-DC supply, 12-bit ADC with 20ksps per channel, flexible control and interface, and more
Interface	SPI
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[ISO ADC 5 click 2D and 3D files](#)

[MAX22530 datasheet](#)

[ISO ADC 5 click schematic](#)

[ISO ADC 5 click example on Libstock](#)

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