

ADC 17 Click



PID: MIKROE-4966

ADC 17 Click is a compact add-on board that contains a high-performance data converter. This board features the [MAX11645](#), a low-power two-channel 12-bit analog-to-digital converter from [Analog Devices](#). The MAX11645 measures two single-ended or one differential input. The fully differential analog inputs are software configurable (I2C interface) for unipolar or bipolar, and single-ended or differential operation. The 2.048V internal reference determines its full-scale analog input range. This Click board™ offers complete, high accuracy solutions for the most demanding applications from energy-harvesting sensors to portable consumer electronics, point-of-load monitoring (voltage, current, and temperature), and more.

ADC 17 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 various applications from energy-harvesting sensors to portable consumer electronics, point-of-load monitoring (voltage, current, and temperature), and more
On-board modules	MAX11645 - high-performance two-channel analog-to-digital converter (ADC) from Analog Devices
Key Features	Two single-ended channels or one fully differential channel, low power consumption, high accuracy, software-configurable unipolar/bipolar operation, internal 2.048V reference, high-speed I2C interface, and more
Interface	I2C
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[MAX11645 datasheet](#)

[ADC 17 click 2D and 3D files](#)

[ADC 17 click schematic](#)

[ADC 17 click example on Libstock](#)

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