

ADC 12 Click



PID: MIKROE-4376

ADC 12 Click is a compact add-on board that contains a fully-featured, general-purpose analog-to-digital converter. This board features the ADS7828, a low-power 12-bit data acquisition device that features a serial I2C interface and an 8-channel multiplexer from Texas Instruments. The A/D converter features a sample-and-hold amplifier and an internal, asynchronous clock. The combination of an I2C serial interface, up to eight differential analog inputs, built-in reference with buffered output, and micro-power consumption makes this Click board™ ideal for applications requiring the A/D converter to be close to the input source in remote locations and for applications requiring isolation.

ADC 12 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 applications requiring the A/D converter to be close to the input source in remote locations and for applications requiring isolation.
On-board modules	ADC 12 Click is based on the ADS7828, a low-power 12-bit data acquisition device that features a serial I2C interface and an 8-channel multiplexer from Texas Instruments.
Key Features	Low power consumption, 12-bit data acquisition device, 8-channel multiplexer, internal voltage reference, 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

[ADC 12 click 2D and 3D files](#)

[ADS7828 datasheet](#)

[ADC 12 click example on Libstock](#)

[ADC 12 click schematic](#)

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