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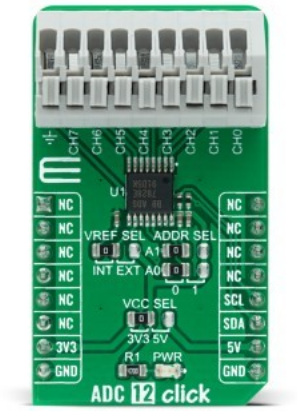
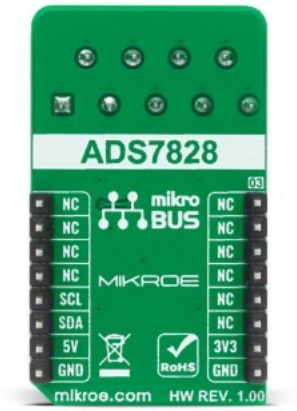
ADC 12 Click





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.

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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
ClickID	No
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