MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
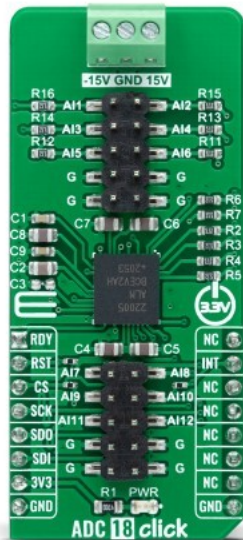Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
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ADC 18 Click

PID: MIKROE-5132

ADC 18 Click is a compact add-on board that contains a high-performance data converter. This board features the MAX22005, an SPI-configurable twelve-channel 24-bit analog-to-digital converter (ADC) from Analog Devices. Input channels can be used as twelve single-ended, six differential, and up to eight multichannel configurable differential inputs. In total, the device supports up to 26 different configurations. The ADC is used with an integrated 5ppm/°C precision reference. Using high-voltage, zero-drift input amplifiers, standard industrial analog input voltage ranges are converted to the ADC input voltage range. This Click board™ offers high accuracy for the most demanding applications, from general-purpose remote data acquisition to industrial applications.

ADC 18 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).

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Specifications

Type	ADC
Applications	Can be used for the most demanding applications, from general-purpose remote data acquisition to industrial applications
On-board modules	MAX22005 - twelve-channel analog-to-digital converter from Analog Devices
Key Features	Factory-calibrated configurable industrial-analog input, high accuracy, software configurability, 24-bit sigma-delta ADC, low power consumption, high-speed serial interface, high performance, and more
Interface	SPI
ClickID	No
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™

Downloads

ADC 18 click example on Libstockck

ADC 18 click schematic

MAX22005 datasheet

ADC 18 click 2D and 3D files