

ADC 9 Click



PID: MIKROE-4105

ADC 9 Click is 8th channel analog to digital converter expansion board, for projects where you have demand for multi channel ADC conversion such as microcontrollers with small number or none analog inputs. This Click board is based on [MCP3564](#) a 24-bit Delta-Sigma Analog-to-Digital Converter with programmable data rate of up to 153.6 ksps from [Microchip](#). It offers integrated features, such as internal oscillator, temperature sensor and burnout sensor detection, in order to reduce system component count and total solution cost. Ideal choice for precision data acquisition systems, high resolution data converters, industrial control, battery-powered devices and many more.

ADC 9 Click board™ 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 an analog to digital conversion in various applications, such as precise temperature, strain, flow, force measurement and pressure measurement, manufacturing process control, precise instrumentation in general, and for similar applications
On-board modules	MCP3564
Key Features	24-Bit Resolution, Four Differential or Eight Single-Ended Input Channels, Low-Temperature Drift, 24-Bit Digital Offset and Gain Error Calibration Registers and many more eight analog input channels
Interface	GPIO, SPI
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™ Standard specification](#)

[LibStock: mikroSDK](#)

[Click board catalog](#)

[Click boards™ Standard Page](#)

Downloads

[ADC 9 click 2D and 3D files](#)

[ADC 9 click schematic](#)

[MCP1501 datasheet](#)

[ADC 9 click example on Libstock](#)

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