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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 dana 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.

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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
ClickID	No
Compatibility	mikroBUS™
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

ADC 9 click 2D and 3D files

ADC 9 click schematic

MCP1501 datasheet

ADC 9 click example on Libstock

MCP3564 datasheet