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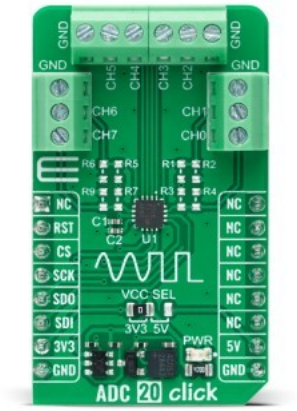
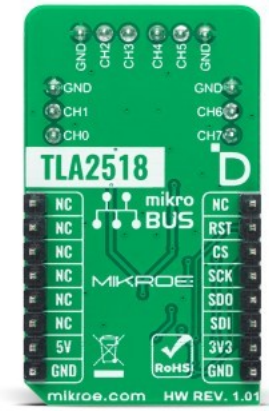
ADC 20 Click





PID: MIKROE-5424

ADC 20 Click is a compact add-on board with a high-performance data converter. This board features the TLA2518, an SPI-configurable eight-channel 12-bit successive approximation register analog-to-digital converter (SAR ADC) from Texas Instruments. The TLA2518 has an internal oscillator for the ADC conversion and supports averaging multiple data samples with a single conversion start. Also, the built-in programmable averaging filters help reduce noise from the analog inputs and reduce the number of data samples required to be read by the host MCU. All eight channels can be used as analog inputs, with the addition that the four channels can be used as digital inputs or digital outputs. This Click board™ offers high accuracy for the most demanding applications, from general-purpose remote data acquisition to industrial applications.

ADC 20 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 from general-purpose remote data acquisition to industrial applications
On-board modules	TLA2518 - analog-to-digital converter (ADC) from Texas Instruments
Key Features	Eight user-configurable channels, open-drain, push-pull digital outputs, wide operating ranges, SPI serial interface, high speed, high performance, high resolution, programmable averaging filters, and more
Interface	SPI
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 20 click 2D and 3D files

ADC 20 click schematic

TLA2518 datasheet

ADC 20 click example on Libstock