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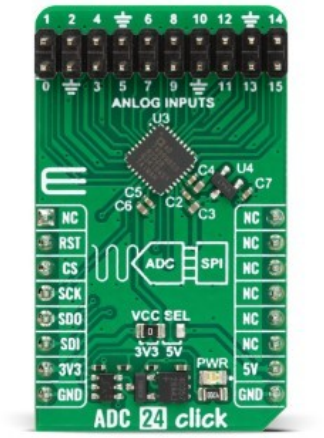
ADC 24 Click



PID: MIKROE-6039

ADC 24 Click is a compact add-on board for high-speed analog to digital conversion. This board features the AD7490, a 12-bit, 16-channel successive approximation ADC from Analog Devices, optimized for efficient power usage with a consumption of just 2.5mA from a 5V supply while achieving up to 1MSPS throughput rates. The board features 16 single-ended analog inputs with a configurable input range, supported by a channel sequencer for sequential channel conversion and multiple operational modes for flexible power management. This makes ADC 24 Click ideal for extensive system monitoring applications such as multichannel system monitoring, power line monitoring, data acquisition, instrumentation, and process control, serving various industrial and tech applications.

ADC 24 Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the mikroBUS™ standard. It comes with the mikroSDK open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this Click board™ apart is the groundbreaking ClickID feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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Specifications

Type	ADC
Applications	Ideal for multichannel system monitoring, power line monitoring, data acquisition, instrumentation, and process control
On-board modules	AD7490 - successive approximation ADC from Analog Devices
Key Features	12-bit resolution, fast data processing, low power consumption, configurable analog input range, multiple operational modes, SPI/QSPI™/MICROWIRE™/DSP compatible, and more
Interface	SPI
ClickID	Yes
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 24 click example on Libstock

AD7490 datasheet

ADC 24 click 2D and 3D files v100

ADC 24 click schematic v100

MCP1525 datasheet