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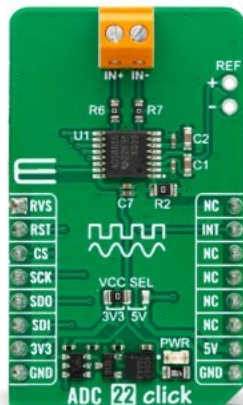Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
www.mikroe.com

ADC 22 Click

PID: MIKROE-5640

ADC 22 Click is a compact add-on board with a high-performance data converter. This board features the ADS8665, a high-speed single-supply SAR ADC data acquisition system with programmable bipolar input ranges from Texas Instruments. It features a high-speed, high-precision A/D converter based on successive approximation (SAR). This 12-bit resolution ADC with an integrated analog front-end (AFE) input driver circuit can achieve speeds of up to 500ksps. This Click board™ makes the perfect solution for the development of analog input modules, mixed modules (AI, AO, DI, DO), data acquisition (DAQ), trackside signaling and control, and more.

ADC 22 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.

Specifications

Type	ADC
Applications	Can be used for the development of analog input modules, mixed modules (AI, AO, DI, DO), data acquisition (DAQ), trackside signaling and control, and more
On-board modules	ADS8665 - SAR ADC data acquisition system with programmable bipolar input ranges from Texas Instruments
Key Features	High-speed, high-precision, high-performance, based on a successive approximation (SAR), up to 500ksps sampling rate, supports true bipolar and unipolar inputs in wide ranges, supports multiSPI interface backward-compatible to the standard SPI protocol, alarm function, 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 22 click example on Libstock

ADS8665 datasheet

ADC 22 click 2D and 3D files

ADC 22 click schematic

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).