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AD-SWIO Click

PID: MIKROE-4081

AD-SWIO Click is a quad-channel software configurable input/output solution based on AD74412R. The AD74412R is a quad-channel software configurable input/output integrated circuit for building and process control applications. The device provides a fully integrated single chip solution for input and output operation. The AD-SWIO Click contains four 13-bit DACs, one per chanal, and 16-bit Σ-Δ ADC. These options give a lot of flexibility in choosing functionality for analog output, analog input, digital input, resistance temperature detector (RTD), and thermocouple measurements integrated into a single chip solution with a serial peripheral interface (SPI).

The AD-SWIO 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.

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-DAC,SWIO
Applications	Applications Its a perfect choice for Process control, Factory automation, Motor drives, Building control systems.
On-board modules	AD74412R a quad-channel SWIO and ADP1613 step-up dc-to-dc switching converter all from Analog Devices
Key Features	Optimized for 16-bit ADC (Analog-to-Digital Converter) and 13-bit DAC (Digital-to-Analog Converter).
Interface	GPIO,SPI
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V,5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

AD-SWIO click schematic

AD-SWIO click 2D and 3D files

AD74412R datasheet

AD-SWIO click example on Libstock