

AD-SWIO 3 Click



PID: MIKROE-5946

AD-SWIO 3 Click is a compact add-on board representing a software configurable input/output solution for various purposes. This board features the [AD74115H](#), a single-channel, software-configurable input and output with HART mode from [Analog Devices](#). It provides many functionality for analog input, analog output, digital input, digital output, 2-wire, 3-wire, and 4-wire resistance temperature detector (RTD), and thermocouple measurement capability. The supply power and isolation part are managed by the [ADP1034](#), a 3-channel isolated micropower management unit with seven digital isolators and programmable power control, also from Analog Devices. This Click board™ makes the perfect solution for the development of isolated industrial control systems, process control, factory automation, building control systems, and more.

AD-SWIO 3 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.

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,Isolators
Applications	Can be used for the development of isolated industrial control systems, process control, factory automation, building control systems, and more
On-board modules	AD74115H - software-configurable input and output with HART mode from Analog Devices ADP1034 - isolated micropower management unit with seven digital isolators and programmable power control from Analog Devices
Key Features	Software-configurable, voltage, current, and digital input and output, 2/3/4-wire RTD measurement, auxiliary high voltage sense pins, 16-bit ADC, 14-bit DAC, integrated HART modem, unipolar and bipolar capability, internal temperature sensor, integrated flyback power switch, selectable slew rate, and more
Interface	SPI
ClickID	Yes
Compatibility	mikroBUS™
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V,External

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

[ClickID](#)

Downloads

[AD-SWIO 3 click example on Libstock](#)

[AD-SWIO 3 click 2D and 3D files](#)

[AD74115H datasheet](#)

[ADP1034 datasheet](#)

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[AD-SWIO 3 click schematic](#)

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