

# 1-Wire Switch Click



PID: MIKROE-5589

**1-Wire Switch Click** is a compact add-on board that allows you to switch a device remotely using a 1-wire signal. This board features the [DS2413](#), a dual-channel programmable I/O 1-Wire switch from [Analog Devices](#). Communication and operation of this Click board™ are performed with the single 1-Wire serial interface, with the possibility of selecting signals for data processing. With the help of the button and the red LED, it is possible to give/detect I/O signals, and thanks to the additional I/O header, it is also possible to connect an additional external 1-Wire device. This Click board™ makes a perfect choice for industrial control, key-pick systems, accessory identification and control, and many more.

1-Wire Switch 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	1-Wire
Applications	Can be used for industrial control, key-pick systems, accessory identification and control, and more
On-board modules	DS2413 - dual-channel 1-Wire switch from Analog Devices
Key Features	Configured as open-drain, parasitic power supply through 1-Wire, high performance, unique 64-bit ROM factory-lasered serial number, low power consumption, selectable communication pin, and more
Interface	1-Wire
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

## Resources

[mikroBUS™](#)
[mikroSDK](#)
[Click board™ Catalog](#)
[Click boards™](#)

## Downloads

[1-Wire Switch click example on Libstock](#)
[1-Wire Switch click 2D and 3D files](#)
[1-Wire Switch click schematic](#)
[DS2413 datasheet](#)

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