# MUX 9 Click

PID: MIKROE-5500

**MUX 9 Click** is a compact add-on board that contains a precise multiplexing solution. This board features the ADG1438, a CMOS 8-channel analog matrix switch with a high-speed serially controlled 4-wire interface from Analog Devices. Each switch is software-controlled (by a bit of the appropriate register) and conducts equally well in both directions, making it ideal for mux/demux applications. It is specified for a wide supply range ±15V/+12V/±5V where all channels exhibit break-before-make switching action, preventing momentary shorting when switching channels. This Click board™ is designed to support various multiplexing applications like system diagnostics, data acquisition, signal switching, and many more.

MUX 9 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 | DAC |
|------|-----|
| Applications | Can be used for system diagnostics, data acquisition, signal switching, and more |
| On-board modules | ADG1438 - 8-channel analog multiplexer from Analog Devices |
| Key Features | Serially controlled, ultra-low on-resistance and on-resistance flatness, wide operating range, rail-to-rail operation, high-speed interface, suitable for both mux/demux applications, 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™

ClickID

## Downloads

MUX 9 click example on Libstock

MUX 9 click schematic

MUX 9 click 2D and 3D files

ADG1438 datasheet

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