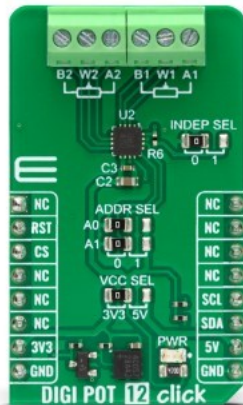


## DIGI POT 12 Click



PID: MIKROE-5656

**DIGI POT 12 Click** is a compact add-on board that contains a digitally controlled potentiometer. This board features the AD5142A, a dual-channel, 256-position nonvolatile digital potentiometer from [Analog Devices](#). On this Click board™, two digitally I2C-controlled potentiometers are realized with end-to-end resistance of 10KΩ and wiper resistance of only 40Ω. The DIGI POT 12 Click can be used in potentiometer and linear gain modes. This Click board™ makes the perfect solution for the development of mechanical potentiometer replacements, voltage-to-current conversions, gain and offset adjustment, and many other applications.

DIGI POT 12 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	Digital potentiometer
Applications	Can be used for the development of mechanical potentiometer replacements, voltage-to-current conversions, gain and offset adjustment, and many other applications
On-board modules	AD5142A - digital potentiometer from Analog Devices
Key Features	Dual-channel, 256-position resolution, 10k $\Omega$ nominal resistance, I2C-compatible interface, nonvolatile memory stores wiper settings, 50 years of typical data retention, and more
Interface	I2C
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

[DIGI POT 12 click example on Libstock](#)

[DIGI POT 12 click 2D and 3D files](#)

[DIGI POT 12 click schematic](#)

[AD5142A datasheet](#)

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