

DIGI POT 6 Click



PID: MIKROE-4110

DIGI POT 6 Click is a compact add-on board used as a digitally controlled potentiometer. This board features the MCP41HV51, 8-bit dual power rails digital potentiometer with SPI serial interface and volatile memory from Microchip. The MCP41HV51 has a wide operating voltage range, analog from 10 to 36V and digital from 2.7 to 5.5V or implemented as dual-rail ($\pm 18V$). Its 8-bit configuration supports 255 resistors and 256 steps and provides RAB resistance options of 5, 10, 50, and 100 k Ω . It also has a Write Latch function, which will inhibit the volatile wiper register from being updated with the received data, which allows the application to specify a condition such as zero crossings. This Click board™ is suitable for precision calibration of set point thresholds, adjustable power supplies, adjustable gain amplifiers and offset trimming, and more.

DIGI POT 6 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 precision calibration of set point thresholds, adjustable power supplies, adjustable gain amplifiers and offset trimming, and more.
On-board modules	MCP41HV51 - 8-bit dual power rails digital potentiometer with SPI serial interface and volatile memory from Microchip.
Key Features	Wide operating voltage range, configurable resistance options, Zero-Scale to Full-Scale wiper operation, low wiper resistance, and more.
Interface	SPI
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 6 click 2D and 3D files](#)

[DIGI POT 6 click example on Libstock](#)

[MCP41HVX1 datasheet](#)

[DIGI POT 6 click schematic](#)

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