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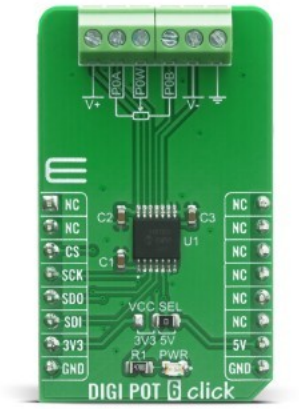
DIGI POT 6 Click



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 (±18V). Its 8-bit configuration supports 255 resistors and 256 steps and provides RAB resistance options of 100 kΩ. It also has a Write Latch function, which will inhibit the volatile wiper register from being updated with the received data. 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.

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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
ClickID	No
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