

## DAC click"

## 1. Introduction



Front and back side appearance of the DAC click Board

DAC Click is an accessory board in mikroBus ${ }^{\text {Tm }}$ form factor. It includes a 12-bit Digital-toAnalog Converter MCP4921 that features SPI interface and an optional double buffered output. The board provides high accuracy and low noise performance for industrial applications where calibration or compensation of signals, such as temperature, pressure and humidity, are required. Board is set to use 3.3V power supply by default. Solder PWR SEL SMD jumper to 5V position if used with 5 V systems.

## 2. Soldering the headers

Before using your click board, make sure to solder the provided $1 \times 8$ male headers to both sides of the board. Two $1 \times 8$ male headers are included with the board in the package.

(2)


Turn the board upside down, so that bottom side is facing you upwards. Place shorter parts of the header pins in the both soldering pad locations.


Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.



## 4. Creating Output Voltages

Board contains two analog output screw terminals: Vout and GND. Data in 12-bit format is sent to the DAC using SPI communication interface. This data is converted to the appropriate voltage level in the range between GND and REFERENCE (VCC or 4.096 V ), which is proportional to the received 12 -bit number.


## 5. DAC click Board Schematics



## 6. SMD Jumpers

PWR SEL REFERENCE


There are two zero-ohm resistors (SMD jumpers): PWR SEL is used to determine whether 5 V or 3.3 V power supply is used, and REFERENCE to select either VCC or 4.096 V as the voltage reference.

## 7. Code Examples

Once you have done all the necessary preparations, it's time to get your click board up and running. We have provided the examples for mikroC, mikroBasic and mikroPascal compilers on our Libstock website. Just download them and you are ready to start.


## 8. Support

MikroElektronika offers Free Tech Support (www.mikroe.com/esupport) until the end of product lifetime, so if something goes wrong, we are ready and willing to help!

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