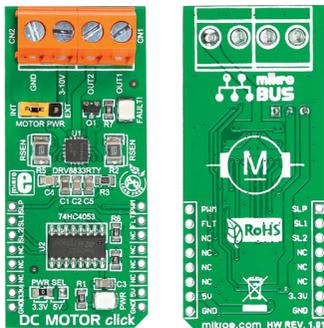


DC MOTOR click™

1. Introduction



DC MOTOR click™ is a DC motor driver board in mikroBUS™ form factor. It features the **DRV8833RTY** H-Bridge motor driver, **74HC4053** multiplexer and two screw terminals. DC MOTOR click™ communicates with the target board via SELECT1, SELECT2 and nSLEEP control lines, PWM input line and nFAULT feedback line. The board is designed to use 3.3V or 5V power supplies. It has a GREEN power supply indicator LED and a RED LED that indicates active nFAULT line (in case of short-circuit).

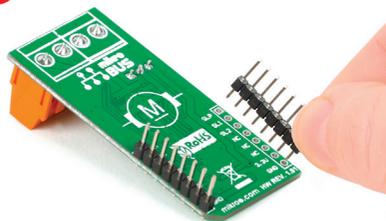
2. Soldering the headers

Before using your click™ board, make sure to solder 1x8 male headers to both left and right side of the board. Two 1x8 male headers are included with the board in the package.



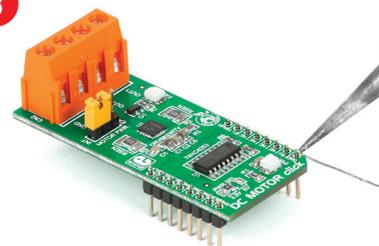
1

2

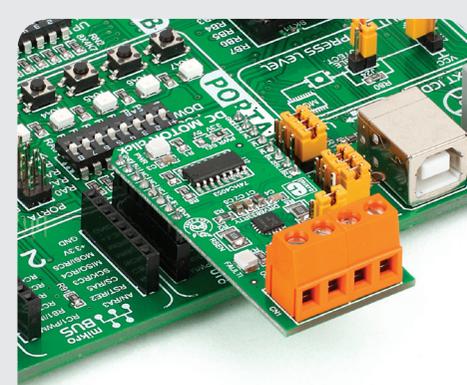


Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.

3



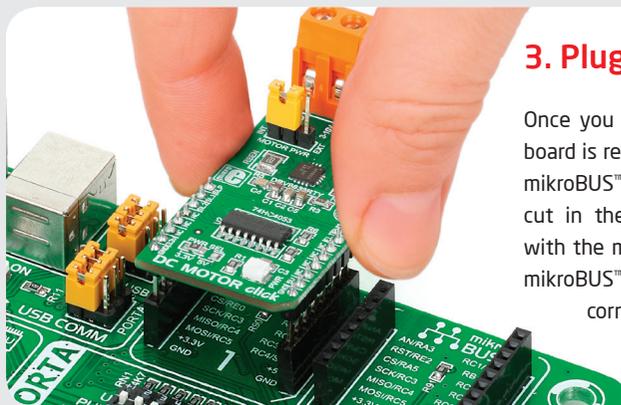
Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.



4. Essential features

DC MOTOR click™ with its **DRV8833RTY** IC's is limited to a 0.9A driving current with 0.22Ω current sense resistor. The 74HC4053 IC is incorporated into the design in order to run the motor with only one PWM line available on the mikroBUS™ socket. Use jumper **J2** to select whether you want to power the board with the on-board or external power supply connected to the **CN2** screw terminal. The motor should be connected to the **CN1** screw terminal.

3. Plugging the board in



Once you have soldered the headers your board is ready to be placed into the desired mikroBUS™ socket. Make sure to align the cut in the lower-right part of the board with the markings on the silkscreen at the mikroBUS™ socket. If all the pins are aligned correctly, push the board all the way into the socket.

click™
BOARD
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DC Motor click Manual
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