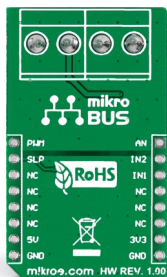
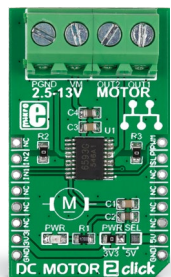


DC MOTOR 2 click

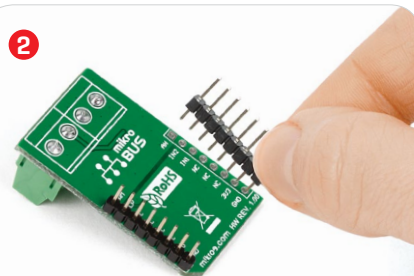
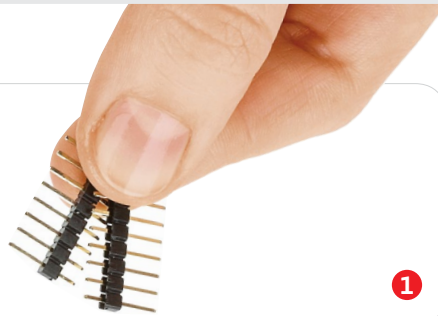


1. Introduction

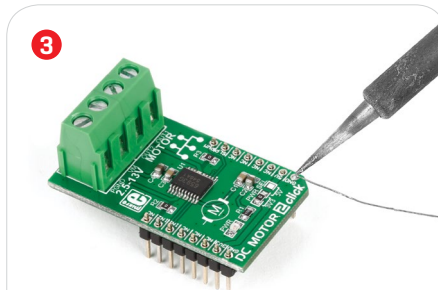
DC MOTOR 2 click carries the TB6593FNG driver IC for direct current motors. With two pairs of screw terminals (power supply and outputs), the click board can drive motors with voltages from 2.5 to 13V [output current of up to 1.2 amps with peaks up to 3.2 amps]. DC MOTOR 2 click communicates with the target microcontroller through mikroBUS™ PWM, INT [here SLP], RST and CS pins [here IN2 and IN1]. The board can use either a 3.3V or a 5V power supply.

2. Soldering the headers

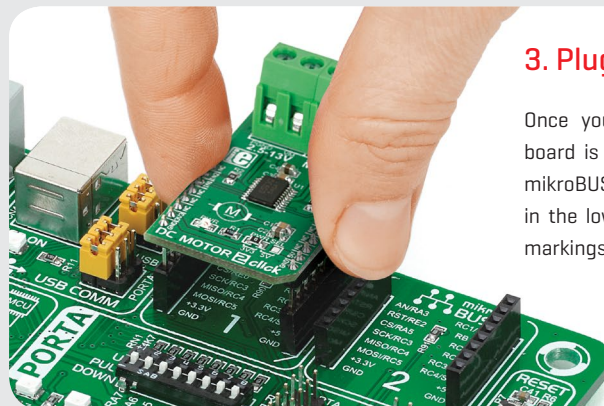
Before using your click board™, make sure to solder 1x8 male headers to both left and right side of the board. Two 1x8 male headers are included with the board in the package.



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.

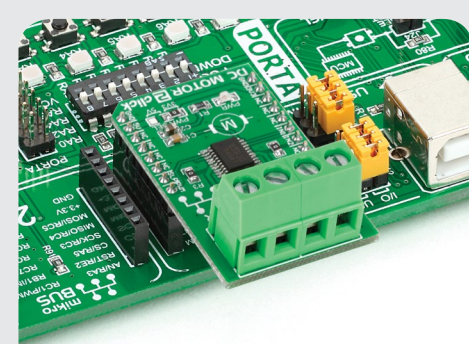


Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.



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.



4. Essential features

The PWM signal drives the motor while the IN1 and IN2 pins provide binary direction signals that set the direction of the motor [clockwise or counter clockwise], or apply stop or short break functions. Stop mode cuts off the power supply so the motor continues spinning until it runs out of momentum. Short break brings it to an abrupt stop [it also blocks the rotor so it resists spinning even when external momentum is applied]. The Standby is power saving, putting the chip in sleep mode when in low logic level.

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DC Motor 2 click manual
ver 1.00



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