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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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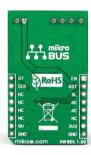






STEPPER 2 click



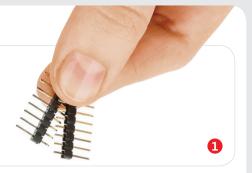


1. Introduction

Stepper 2 click carries an A4988 microstepping motor driver along with screw terminals for connecting an external motor, as well as for bringing in an external power supply. The output drive capacity of the motor is up to 35V and ±2A. The board communicates with the target MCU through EN, RST, SL, ST and DIR pins (corresponding to AN, RST, CS, PWM and INT pins of the default mikroBUS™ configuration). Stepper 2 click has a 3.3V power supply but is also compatible with 5V logic.

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.



4. Essential features

The A4988 chip is designed to drive bipolar stepper motors in full-, half-, quarter-, eight-, and sixteenth-step modes. No phase sequence tables are required for operating the driver – a single pulse through the STEP input drives the motor one micro-step. A set of three onboard jumpers (J1-J3) allow you to switch between the different stepping modes (a micro-stepping resolution truth table is provided in the data sheet of the chip. The DIR pin is for determining the direction of rotation of the motor.



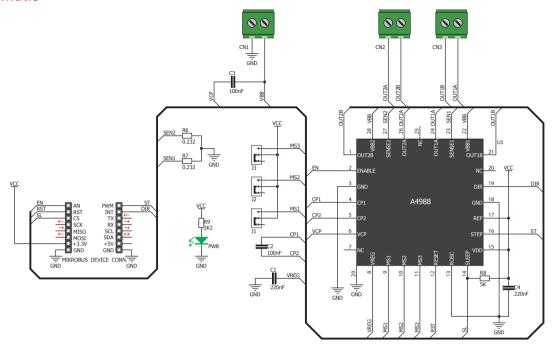
3. Plugging the board in

socket. If all the pins are aligned correctly, push the board all the way into the socket.



0100000085769

5. Schematic



8. Code examples

Once you have done all the necessary preparations, it's time to get your click board $^{\mathbb{N}}$ up and running. We have provided examples for mikro $\mathbb{C}^{\mathbb{N}}$, mikro \mathbb{B} asic $^{\mathbb{N}}$ and mikro \mathbb{P} ascal $^{\mathbb{N}}$ compilers on our **Libstock** website. Just download them and you are ready to start.

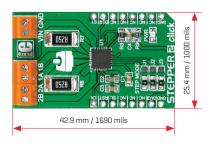


9. Support

MikroElektronika offers free tech support [www.mikroe.com/support] until the end of the product's lifetime, so if something goes wrong, we're ready and willing to help!



6. Dimensions



	mm	mils
LENGTH	42.9	1690
WIDTH	25.4	1000
HEIGHT*	3.9	154

* without headers

7. Screw terminals



Stepper 2 click features three pairs of screw terminals. 2B, 2A, 1A and 1B are for connecting the stepper motor, VIN and GND are for bringing an external power supply.

10. Disclaimer

MikroElektronika assumes no responsibility or liability for any errors or inaccuracies that may appear in the present document. Specification and information contained in the present schematic are subject to change at any time without notice.

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