

Time-saving embedded tools

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# Stepper 14 Click





### PID: MIKROE-4125

The **Stepper 14 Click** is a Click board<sup>™</sup> that features the DRV8847PWPR, a step motor driver, from <u>Texas Instruments</u>. This Click board<sup>™</sup> provides a bipolar step motor controle, It features an H-bridge bipolar step motor driver, which supports full-, half-, quarter-, or eighth-step modes. This click board<sup>™</sup> also carries a port expander so that the communication can be done with a minimal number of pins, through the mikroBUS<sup>™</sup> I2C bus. This click board<sup>™</sup> offers thermal protection, integrated kickback voltage protection, it has a wide range of input voltage, protection against current shoot-through the H-Bridge and high current capability. These features make Stepper 14 click an ideal solution for driving motors in any application that demands a precise and safe step motor driver.

Stepper 14 click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board<sup>™</sup> comes as a fully tested product, ready to be used on a system equipped with the mikroBUS<sup>™</sup> socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system. ISO 14001: 2015 certification of environmental management system. OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).



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## Specifications

Туре	Stepper
Applications	Refrigerator damper and ice maker, Washers, dryers and dishwashers, Electronic point-of- sale (ePOS) printers , Stage lighting equipment, Miniature circuit breakers and smart meters etc.
On-board modules	DRV8847PWPR Dual Full-Bridge 18V, 1A, Stepper Motor Driver, from Texas Instruments; PCA9538A 8bit I/O Expander with Serial Interface, from NXP
Key Features	Dual H-bridge motor driver, Single or dual brushed DC motors, One bipolar stepper motor, Solenoid loads, Multiple control interface options.
Interface	GPIO,I2C
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

### Resources

mikroBUS<sup>™</sup> Standard specification

LibStock: mikroSDK

Click board catalog

Click boards<sup>™</sup> Standard Page

### **Downloads**

Stepper 14 click 2D and 3D files

PCA9538A datasheet

DRV8847 datasheet

Stepper 14 click example on Libstock

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