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Stepper 14 Click

PID: MIKROE-4125

The **Stepper 14 Click** is a Click board™ that features the DRV8847PWPR, a step motor driver, from [Texas Instruments](). This Click board™ 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™ also carries a port expander so that the communication can be done with a minimal number of pins, through the mikroBUS™ I2C bus. This click board™ 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™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

Specifications

Type	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™ Standard specification

LibStock: mikroSDK

Click board catalog

Click boards™ Standard Page

Downloads

Stepper 14 click 2D and 3D files

PCA9538A datasheet

DRV8847 datasheet

Stepper 14 click example on Libstock