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Stepper 15 Click

PID: MIKROE-4639

Stepper 15 Click is a compact add-on board that contains a bipolar stepper motor driver. This board features the DRV8889A, an automotive stepper driver with integrated current sense and stall detection from Texas Instruments. It supports up to 1.5A full-scale current with an internal microstepping indexer, smart tune decay technology, advanced stall detection algorithm, and integrated current sensing, eliminating the need for power sense resistors. With a simple STEP/DIR interface, the device supports up to 1/256 levels of microstepping to enable a smooth motion profile. Also, an advanced stall detection algorithm allows users to detect if the motor stopped and take action as needed, improving efficiency and reducing noise. This Click board™ is suitable for driving motors in any application that demands a precise and safe step motor driver.

Stepper 15 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.

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Specifications

Type	Stepper
Applications	Can be used for driving motors in any application that demands a precise and safe step motor driver.
On-board modules	DRV8889A - integrated motor-driver solution for bipolar stepper motors from Texas Instruments
Key Features	Qualified for automotive, up to 1/256 microstepping, integrated current sense, various protection features, and more.
Interface	I2C,SPI
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V,External

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

Stepper 15 click 2D and 3D files

PCA9538 datasheet

DRV8889 datasheet

Stepper 15 click schematic

Stepper 15 click example on Libstock