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Stepper 9 Click

PID: MIKROE-5263

Stepper 9 Click is a compact add-on board that contains a bipolar stepper motor driver. This board features the TB67S581FNG, a two-phase bipolar stepping motor driver from Toshiba Semiconductor. Fabricated with the BiCD process, it supports a PWM constant-current control drive and steps resolution from full to 1/32 for less motor noise and smoother control. It has a wide operating voltage range of 8.2V to 44V with a maximum output current capacity of 2A, decay modes selection function, protection, and several anomaly detection indicators. This Click board™ makes the perfect solution for small stepping motors in various applications such as consumer electronics and industrial equipment.

Stepper 9 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 small stepping motors in various applications such as consumer electronics and industrial equipment
On-board modules	TB67S581FNG - two-phase bipolar stepping motor driver from Toshiba Semiconductor
Key Features	Low power consumption, capable of controlling one bipolar stepping motor, PWM controlled constant-current drive, operational in full, half, quarter, 1/8, 1/16, and 1/32 step resolutions, selectable decay mode, anomaly detection functions, and more
Interface	GPIO,I2C
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

Stepper 9 click example on Libstock

MCP1501 datasheet

TB67S581FNG datasheet

PCA9538A datasheet

Stepper 9 click 2D and 3D files

Stepper 9 click schematic