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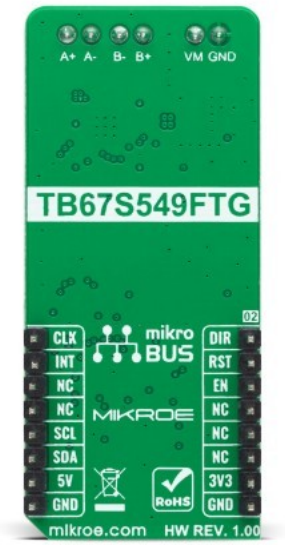
# Stepper 12 Click


PID: MIKROE-5303

**Stepper 12 Click** is a compact add-on board that contains a bipolar stepper motor driver. This board features the TB67S549FTG, a two-phase bipolar stepping motor driver from Toshiba Semiconductor. It supports a PWM constant-current control drive without a current sense resistor for motor-current detection and allows full-step to 1/32 steps resolution for less motor noise and smoother control. It has a wide operating voltage range of 4.5V to 34V with an output current capacity of 1.2A maximum and several anomaly detection indicators. This Click board™ makes the perfect solution for small stepping motors in various applications such as office automation and commercial and industrial equipment.

Stepper 12 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 a wide range of applications such as office automation, commercial and industrial equipment |
| On-board modules | TB67S549FTG - two-phase bipolar stepping motor driver with resistorless current sensing thanks to Advanced Current Detect System (ACDS) 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, built-in a mixed 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,External |

## Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

## Downloads

Stepper 12 click example on Libstock

TB67S549FTG datasheet

MCP1501 datasheet

PCA9555A datasheet

Stepper 12 click schematic

Stepper 12 click 2D and 3D files