

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.

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).

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
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V,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](#)

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).