

## 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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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 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
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](#)

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